

Incident ID	NRM2009254898
District RP	
Facility ID	
Application ID	

Remediation Plan

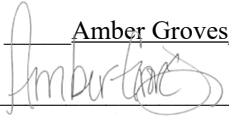
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Amber Groves Title: Remediation Coordinator
Signature:  Date: 10/21/2020
email: algroves@paalp.com Telephone: (575)200-5517

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	NRM2009254898
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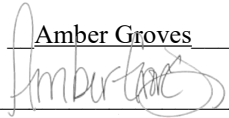
Closure

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amber Groves Title: Remediation Coordinator
Signature:  Date: 10/21/2020
email: algroves@paalp.com Telephone: (575)200-5517

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



SITE CLOSURE / DEFERRAL REQUEST

COG SCREECH OWL FEDERAL CTB
UNIT LETTER K, SECTION 18, TOWNSHIP 26 SOUTH, RANGE 27 EAST, NMPM
N 32.038972° W 104.232091°
SOUTH OF CARLSBAD
EDDY COUNTY, NEW MEXICO
Incident ID NRM2009254898
SRS #: 2020-030

Prepared for:

Plains Pipeline, L.P.
333 Clay Street, Suite 1600
Houston, Texas 77002

Prepared by:

TRC Environmental Corporation
10 Desta Drive, Suite 150E
Midland, Texas 79705

November 2020

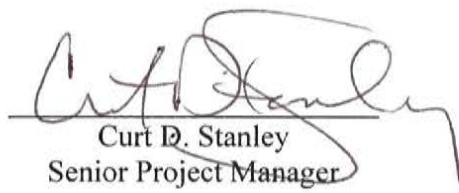

Curt D. Stanley
Senior Project Manager

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APPENDICES

Appendix A:	Photographic Documentation
Appendix B:	Monitor Well MW-1 Log
Appendix C:	NMOCD Correspondence
Appendix D:	Chloride Field Test Results
Appendix E:	Laboratory Analytical Reports
Appendix F:	Request for Approval to Accept Solid Waste (NMOCD Form C-138)
Appendix G:	Release Notification and Corrective Action (NMOCD Form C-141)
Appendix H:	Lea Land, Inc. Disposal Manifests

1.0 INTRODUCTION AND BACKGROUND

On behalf of Plains Pipeline, L.P. (Plains), TRC Environmental Corporation (TRC) has prepared this Site Closure Deferral Request for the crude oil Release Site known as COG Screech Owl Federal CTB (SRS # 2020-030). The Release Site is also known as “Screech Owl”. The Release Site is located approximately twenty-six (26) miles south of Carlsbad in Unit Letter K, Section 18, Township 26 South, Range 27 East, NMPM, in Eddy County, New Mexico. The Release Site is located west and adjacent to the COG Operating, LLC (COG) Screech Owl Central Tank Battery (CTB). The property owner is The United States Department of the Interior, Bureau of Land Management (BLM). The Release Site GPS coordinates are N 32.038972° W 104.232091°. A topographic location map and aerial map are provided as Figures 1 and 2, respectively.

On March 28, 2020, due to a nipple failure on the meter skid, Plains experienced a release of approximately fifteen (15) barrels (bbls) of crude oil. Approximately twelve (12) bbls of crude oil was recovered during initial response activities. The released crude oil impacted the area inside the Plains secondary containment and flowed north around the COG tank battery secondary containment and onto the caliche pad located north of the Plains and COG secondary containments. In addition, crude oil was sprayed into the COG secondary containment and the area immediately south of the COG secondary containment. The NMOCD Release Notification and Corrective Action (Form C-141) is provided as Appendix G. Photographic Documentation is provided as Appendix A.

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) indicated no water wells were located within a one-half (0.5) mile radius of the release point. On September 20, 2018, Plains installed a monitor well (MW-1) at the Release Site and associated with a previous release (#2RP-474). During the installation of monitor well MW-1, groundwater was encountered at approximately ninety-three (93) feet below ground surface (bgs).

The Bureau of Land Management (BLM) publicly available *Karst Potential Map* indicates the COG Screech Owl Federal CTB Release Site, is located in a “critical karst” area. Based on the inferred location of the Release Site in an area of “critical karst”, the *NMOCD Closure Criteria for Soils Impacted by a Release* are the most stringent closure criteria listed. The BLM Karst Potential Map is provided as Figure 3. The monitor well MW-1 log is provided as Appendix B.

2.0 VARIANCE REQUEST

On April 21, 2020, following delineation activities, a Plains Representative requested a NMOCD variance of the required confirmation sample standard. Plains acknowledged the Release Site is located in a “high karst” area and as such, remediation standards would generally be the most stringent.

On March 11, 2017, a previous release (Alpha Gathering, Seg 3, Lat 6E – NMOCD Reference #2RP-4747) occurred at this Site. On September 20, 2018, following the NMOCD approved remediation activities, a monitor well (MW-1) was installed at the Alpha Gathering, Seg 3, Lat 6E Release Site located adjacent the COG Screech Owl CTB. During the installation of the monitor well, groundwater was encountered at approximately ninety-three (93) feet bgs. On

October 8, 2018, a groundwater sample was collected from the monitor well and submitted to the laboratory for analysis of total dissolved solids (TDS) and benzene, toluene, ethylbenzene, and xylene (BTEX). The analytical results indicated concentrations of benzene, toluene, ethylbenzene, and xylene (BTEX) were less than the applicable Reporting Limit (RL) and less than the NMOCD regulatory guidelines. The analytical results indicated the TDS concentration of the groundwater sample was 485,000 mg/L and exceeded the NMOCD and New Mexico Water Quality Control Commission (NMQWCC) standard of 10,000 mg/L, for abatable groundwater.

On December 6, 2018, based on the analytical results of the October 8, 2018 groundwater sampling event, Plains, BLM, and NMOCD Representatives met at the NMOCD District 2 Office in Artesia. During the meeting, the representatives of the NMOCD and BLM approved of the plugging and abandonment of monitor well MW-1, by a licensed New Mexico water well driller. On February 6, 2019, monitor well MW-1 was plugged and abandoned by a licensed New Mexico water well driller as per the NMOSE plugging permit requirements. Please reference the Alpha Gathering, Seg 3, Lat 6E – (NMOCD Reference #2RP-4747) Site Closure Request (dated January 2019), for additional details.

On April 21, 2020, based on the depth and non-abatable quality of the groundwater, Plains requested a variance in the Total Petroleum Hydrocarbon (TPH) confirmation sample standard from 100 mg/kg to 2,500 mg/kg as outlined in Table 1 of the *NMOCD Closure Criteria for Soils Impacted by a Release*. On June 8, 2020, the variance was approved by the NMOCD.

Please reference NMOCD correspondence provided as Appendix C.

Based on the NMOCD approved variance, the Closure Criteria for the COG Screech Owl Federal CTB Release Site are as follows:

- Benzene - 10 mg/kg
- Benzene, Toluene, ethylbenzene, and total xylenes (BTEX) - 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): GRO+DRO = 1,000 mg/kg, GRO+DRO+ORO = 2,500 mg/kg
- Chloride – 600 mg/kg

3.0 SUMMARY OF EXCAVATION ACTIVITIES

During initial response activities, a second-party contractor excavated heavily impacted soil by hand or by utilizing a backhoe. Impacted soil was temporarily stockpiled on a polyethene liner to mitigate the migration of contaminants into the subsurface soil, pending transportation to Lea Land, LLC., (Permit Number WM-01-035 New Mexico) located northeast of Carlsbad, New Mexico.

On April 7, 2020, delineation activities commenced and six (6) soil samples (D1 @ 1', D2 @ 1', E @ 1', S @ 1', W @ 1', and N @ 1') were collected and submitted to the laboratory for analysis of Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) using Method SW 846-8021B, Total Petroleum Hydrocarbon (TPH) using Method SW 846-8015M, and chloride using Method EPA 300.0. The analytical results indicated benzene concentrations ranged from less than the

applicable laboratory reporting limit (RL) for soil samples D1 @ 1', D2 @ 1', S @ 1', W @ 1', and N @ 1' to 0.00256 mg/kg for soil sample E @ 1'. BTEX concentrations ranged from less than the applicable laboratory RL for soil sample D2 @ 1', S @ 1', and W @ 1' to 0.06520 mg/kg for soil sample E @ 1'. TPH Gasoline Range Organics plus Diesel Range Organics (TPH GRO + DRO) concentrations ranged from less than the applicable laboratory RL for soil samples D1 @ 1', D2 @ 1', S @ 1', W @ 1', and N @ 1' to 2,062.9 mg/kg for soil sample E @ 1'. TPH Gasoline Range Organics plus Diesel Range Organics plus Oil Range Organics (TPH GRO + DRO + ORO) concentrations ranged from less than the applicable laboratory RL for soil samples D1 @ 1', D2 @ 1', S @ 1', W @ 1', and N @ 1' to 2,333.9 mg/kg for soil sample E @ 1'. Chloride concentrations ranged from 16.8 mg/kg for soil sample D1 @ 1' to 1,050 mg/kg for soil sample E @ 1'. Please reference Table 1 for a Summary of Concentrations of BTEX, TPH, and Chlorides in Soil. Chloride Field Test Results are provided in Appendix D and laboratory analytical reports are provided as Appendix E. Please reference Figure 4 (Excavation and Sample Location Map) and Figure 5 (Excavation and Sample Location Map with Aerial Photographic Imagery) for soil sample locations.

Based on the April 7, 2020 analytical results, additional delineation efforts were warranted in the area represented by soil sample E @ 1'.

On April 9, 2020, one (1) delineation soil sample (E @ 14") was collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride. The analytical results indicated the benzene concentration was less than the applicable laboratory RL and the BTEX concentration was less than the applicable laboratory RL. The TPH GRO + DRO concentration was 197 mg/kg and the TPH GRO + DRO + ORO concentration was 234.8 mg/kg. The chloride concentration was 204 mg/kg.

Based on the April 9, 2020 analytical results, no additional delineation efforts were warranted.

On April 30, 2020 and June 1, 2020, an addendum to the initial April 21, 2020 variance request was submitted to the NMOCD by Plains. As indicated above, on March 11, 2017, a previous release (Alpha Gathering, Seg 3, Lat 6E – NMOCD Reference #2RP-4747) occurred at this Site. During the March 11, 2017 Release, a portion of the release was deferred by the NMOCD and BLM, due to the proximity to the COG Screech Owl CTB secondary containment.

The March 28, 2020 release followed a similar flowpath as the March 11, 2017 flowpath, flowing under the COG secondary containment. Due to the commingling of the two (2) releases, Plains requested the area under the COG secondary containment be deferred. On June 8, 2020, the NMOCD approved the variance request addendum to combine the 2RP-4747 and Incident NRM2009254898 deferrals.

In accordance with the *NMOCD Closure Criteria for Soils Impacted by a Release*, one (1) - five (5) point composite soil sample was collected and submitted to the laboratory for BTEX, TPH and chloride analysis for each approximately two-hundred (200) square foot area of excavation floor or sidewall.

On June 11, 2020, seven (7) excavation floor soil samples (F1 @ 1', F2 @ 2.5', F3 @ 1', F4 @ 2', F5 @ 1.5', F6 @ 1' and F7 @ 6") were collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. The analytical results indicated benzene concentrations ranged from less than laboratory RL for soil samples F1 @ 1', F2 @ 2.5', F3 @ 1', F4 @ 2', F5 @ 1.5', and F6 @ 1' to 0.0125 mg/kg for soil sample F7 @ 6". BTEX concentrations ranged from less than the laboratory RL for soil samples F1 @ 1', F2 @ 2.5', F3 @ 1', F4 @ 2', and F6 @ 1' to 0.02216 mg/kg for soil sample F7 @ 6". TPH GRO + DRO concentrations ranged from 122 mg/kg for soil sample F3 @ 1' to 3,972 mg/kg for soil sample F5 @ 1.5'. TPH GRO + DRO + ORO concentrations ranged from 122 mg/kg for soil sample F3 @ 1' to 4,468 mg/kg for soil sample F5 @ 1.5'. Chloride concentrations ranged from 43.4 mg/kg for soil sample F5 @ 1.5' to 261 mg/kg for soil sample F2 @ 2.5'.

On June 11, 2020, ten (10) excavation sidewall soil samples (CNSW @ 6", CSSW @ 1.5', CWSW-1 @ 6", CSWS-2 @ 1', CESW-1 @ 1', CESW-2 @ 1', FP-1 SW, FP-2 SW, FP-3 SW, and FP-4 SW) were collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. The analytical results indicated benzene concentrations ranged from less than laboratory RL for soil samples (CNSW @ 6", CSSW @ 1.5', CWSW-1 @ 6", CSWS-2 @ 1', CESW-1 @ 1', CESW-2 @ 1', FP-1 SW, FP-3 SW, and FP-4 SW to 0.0127 mg/kg for soil sample FP-2 SW. BTEX concentrations ranged from less than the laboratory RL for soil samples CSSW @ 1.5', CWSW-1 @ 6", CSWS-2 @ 1', CESW-1 @ 1', CESW-2 @ 1', FP-1 SW, FP-2 SW, FP-3 SW, and FP-4 SW to 0.0555 mg/kg for soil sample CNSW @ 6". TPH GRO + DRO concentrations ranged from 710 mg/kg for soil sample FP-3 SW to 8,714 mg/kg for soil sample CESW-1 @ 1'. TPH GRO + DRO + ORO concentrations ranged from 834 mg/kg for soil sample FP-3 SW to 9,714 mg/kg for soil sample CESW-1 @ 1'. Chloride concentrations ranged from 17.4 mg/kg for soil sample CESW-2 @ 1' to 524 mg/kg for soil sample CWSW-1 @ 6".

Based on the June 11, 2020 sampling event, soil represented by soil samples F5 @ 1.5', CNSW @ 6", CSSW @ 1.5', CWSW-1 @ 6", CSWS-2 @ 1', CESW-1 @ 1', CESW-2 @ 1', FP-2 SW, and FP-4 SW required additional excavation activities.

On June 17, 2020, one (1) excavation floor soil sample (F8 @ 14") and one (1) excavation sidewall soil sample (OS-SW) were collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. The analytical results indicated benzene and BTEX concentrations were less than laboratory RL for each soil sample. TPH GRO + DRO concentrations ranged from less than the applicable laboratory RL for soil sample OS-SW to 78.5 mg/kg for soil sample F8 @ 14". TPH GRO + DRO + ORO concentrations ranged from less than the laboratory RL for soil sample OS-SW to 78.5 mg/kg for soil sample F8 @ 14". Chloride concentrations ranged from 197 mg/kg for soil sample F8 @ 14" to 331 mg/kg for soil sample OS-SW.

On June 17, 2020, four (4) sidewall soil samples (T-WW-N, T-WW-S, T-EW-N, and T-EW-S) and two (2) floor soil samples (T-BH-N @ 3' and T-BH-S @ 3'), were collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. The soil samples were collected from an area approximately fifty (50) feet in length, two (2) feet in width, and three (3) feet in depth and located between the Plains berm and the COG Screech Owl CTB secondary containment. The analytical results indicated benzene concentrations were less than laboratory

RL for six (6) soil samples. BTEX concentrations ranged from less than the laboratory RL for soil samples T-WW-N, T-EW-N, and T-EW-S to 0.00979 mg/kg for soil sample T-BH-S @ 3'. TPH GRO + DRO concentrations ranged from 2,110.5 mg/kg for soil sample T-WW-N to 25,820 mg/kg for soil sample T-EW-N. TPH GRO + DRO + ORO concentrations ranged from 2,410 mg/kg for soil sample T-WW-N to 31,120 mg/kg for soil sample T-EW-N. Chloride concentrations ranged from 87.2 mg/kg for soil sample T-WW-S to 229 mg/kg for soil sample T-BH-N @ 3'.

On July 1, 2020, four (4) excavation floor and sidewall soil samples (CWSW-1A @ 6", CWSW-2A @ 1', CSSW-A @ 1.5', and F9 @ 1') were collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. The analytical results indicated benzene and BTEX concentrations ranged from less than laboratory RL for all four (4) soil samples. TPH GRO + DRO concentrations ranged from less than the laboratory RL for soil samples CWSW-2A @ 1' and CSSW-A @ 1.5' to 44.2 mg/kg for soil sample F9 @ 1'. TPH GRO + DRO + ORO concentrations ranged from less than the laboratory RL for soil samples CWSW-2A @ 1' and CSSW-A @ 1.5' to 44.2 mg/kg for soil sample F9 @ 1'. Chloride concentrations ranged from 26.9 mg/kg for soil sample CSSW-A @ 1.5' to 59.5 mg/kg for soil sample CWSW-1A @ 6".

On July 7, 2020, three (3) excavation floor and sidewall soil samples (FP-4A SW @ 6", FP-2A SW @ 3", and F-5A @ 2.5') were collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. The analytical results indicated benzene and BTEX concentrations ranged from less than laboratory RL for all three (3) soil samples. TPH GRO + DRO concentrations ranged from less than the laboratory RL for soil sample FP-2A SW @ 3" to 635 mg/kg for soil sample F-5A @ 2.5'. TPH GRO + DRO + ORO concentrations ranged from less than the laboratory RL for soil sample FP-2A SW @ 3" to 717.9 mg/kg for soil sample F-5A @ 2.5'. Chloride concentrations ranged from 8.45 mg/kg for soil sample FP-2A SW @ 3" to 32.4 mg/kg for soil sample FP-4A SW @ 6". Please note, during the excavation of soil represented by excavation floor soil sample F-5 @ 1.5', soil represented by sidewall soil samples T-WW-N and T-WW-S was also excavated.

On July 8, 2020, one (1) excavation sidewall soil sample (CNSW-A @ 6") was collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. The analytical results indicated the benzene concentration was less than laboratory RL for the soil sample and the BTEX concentration was 0.00246 mg/kg. The TPH GRO + DRO concentration was 9,209 mg/kg for the soil sample and the TPH GRO + DRO + ORO concentration was 10,709 mg/kg for the soil sample. The chloride concentration was 33.5 mg/kg for the soil sample.

On July 15, 2020, one (1) excavation sidewall soil sample (CNSW-B @ 6") was collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. The analytical results indicated the benzene and BTEX concentrations were less than laboratory RL for the soil sample. The TPH GRO + DRO and TPH GRO + DRO + ORO concentrations were less than the applicable laboratory RL and the chloride concentration was 75.0 mg/kg.

On April 30, 2020 and June 1, 2020, an addendum to the initial April 21, 2020 variance request was submitted to the NMOCD by Plains. As indicated above, on March 11, 2017, a previous

release (Alpha Gathering, Seg 3, Lat 6E – NMOCD Reference #2RP-4747) occurred at this Site. During the March 11, 2017 Release, a portion of the release was deferred by the NMOCD and BLM, due to the proximity to the COG Screech Owl CTB secondary containment.

The March 28, 2020 release followed a similar flowpath as the March 11, 2017 flowpath, flowing under the COG secondary containment. Due to the commingling of the two (2) releases, Plains requested the area under the COG secondary containment be deferred. On June 8, 2020, the NMOCD approved the variance request addendum to combine the 2RP-4747 and Incident NRM2009254898 deferrals. Excavation in these areas was not approved by COG and remediation of this area will be deferred to time of abandonment (TOA) of the COG Screech Owl Central Tank Battery Facility.

On September 3 and 4, 2020, a total of approximately 333,760 pounds (167 tons), which is equivalent to approximately 167 cubic yards of excavated soil was transported under manifest to Lea Land, LLC. Please reference Appendix F for the Request for Approval to Accept Solid Waste (NMOCD Form C-138). Please reference Appendix H for the Lea Land, Inc. Disposal Manifests.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were obtained utilizing single-use, disposable, latex gloves and clean sampling tools. The soil sample was placed in a disposable Ziploc sample bag. The bag was labeled and a portion of the soil sample was then placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity to limit the amount of headspace present. Each container was labeled and placed on ice in an insulated cooler. Proper chain-of-custody documentation was maintained throughout the sampling process.

Soil samples were delivered to Permian Basin Environmental Laboratory (Permian Lab) Midland, Texas for BTEX, TPH and chlorides analyses using the method described below.

- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO
- BTEX concentrations in accordance with EPA Method SW-846 8021b
- Chlorides concentrations in accordance with EPA Method E 300.

4.2 Decontamination of Equipment

Soil sampling tools such as small hand shovels were washed with Liqui-Nox[®] detergent and rinsed with distilled water between the collection of soil samples.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form.

5.0 SITE CLOSURE / DEFERRAL REQUEST

Based on the analytical results of soil samples collected throughout the COG Screech Owl Federal CTB incident (ID NRM2009254898), Plains requests the NMOCD and BLM grant Site Closure status for the areas not approved by the NMOCD for deferral. Areas approved for deferral by the NMOCD will be addressed at the time of abandonment (TOA) of the COG Screech Owl Central Tank Battery Facility.

A Final Release Notification and Corrective Action (NMOCD Form C-141) is submitted with this Site Closure Deferral Request.

6.0 LIMITATIONS

TRC has prepared this Site Closure Deferral Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

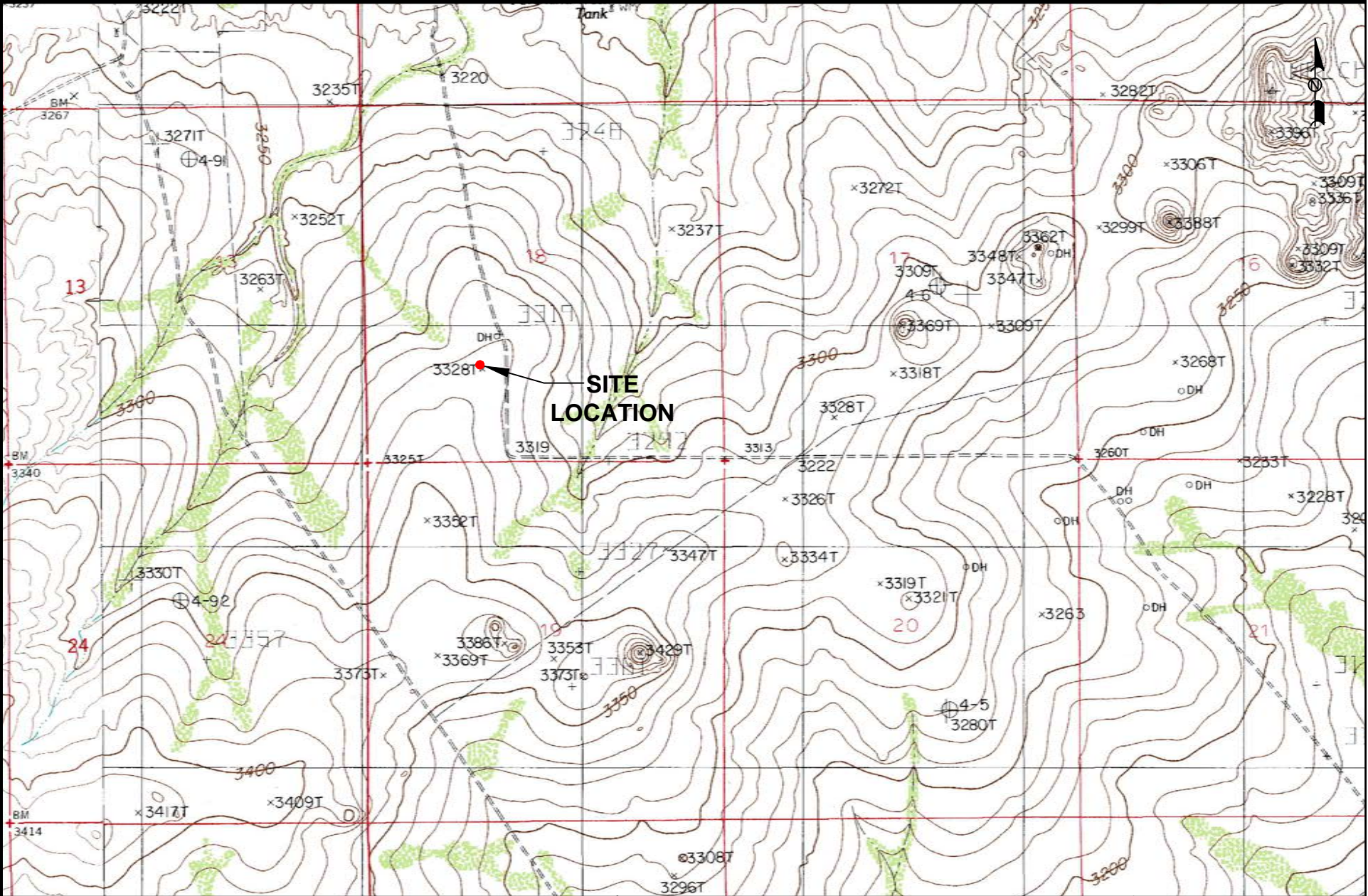
TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC 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 Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or Plains.

7.0 DISTRIBUTION

- Copy 1: Carlsbad Field Office
United States Department of the Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, New Mexico 88220
- Copy 2: New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division – District II
811 South First Street
Artesia, New Mexico 88210
- Copy 3: Ike Tavaréz
Concho Resources
One Concho Center
600 W. Illinois Avenue
Midland, Texas 79701
itavarez@concho.com
- Copy 4: Camille Bryant
Plains Pipeline, L.P.
1106 Griffith Drive
Midland, Texas 79706
cjbryant@paalp.com
- Copy 5: TRC Environmental Corporation
10 Desta Drive, Suite 150E
Midland, Texas 79705
cdstanley@trccompanies.com

Figures



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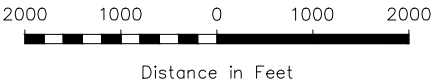


Figure 1

Location Map

Plains Pipeline, L.P.
COG Screech Owl Federal CTB
Eddy County, NM

Scale: 1" = 2000'

CAD By: CS

Checked By: CS

Draft: August 6, 2020

Lat. N 32.038972°, Long. W 104.232091°

ULT K, Sec 18 T26S R27E

TRC Proj. No.: 391243



10 Desta Drive, Suite 150E
Midland, Texas 79705
432.520.7720



LEGEND:

- Site Location
- 1/2 Mile Radius

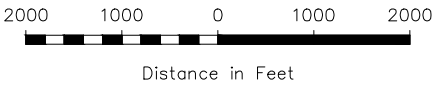


Figure 2
Aerial Map
Plains Pipeline, L.P.
COG Screech Owl Federal CTB
Eddy County, NM




Scale: 1" = 2,000'
CAD By: CS
Checked By: CS
Draft: August 6, 2020
Lat. N 32.038972° Long. W 104.232091°
ULT K, Sec 18, T26S R27E



10 Desta Drive, Suite 150E
Midland, Texas 79703
432.520.7720



LEGEND:

-  Low Karst Potential
-  Medium Karst Potential
-  Critical Karst Potential

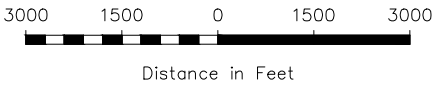
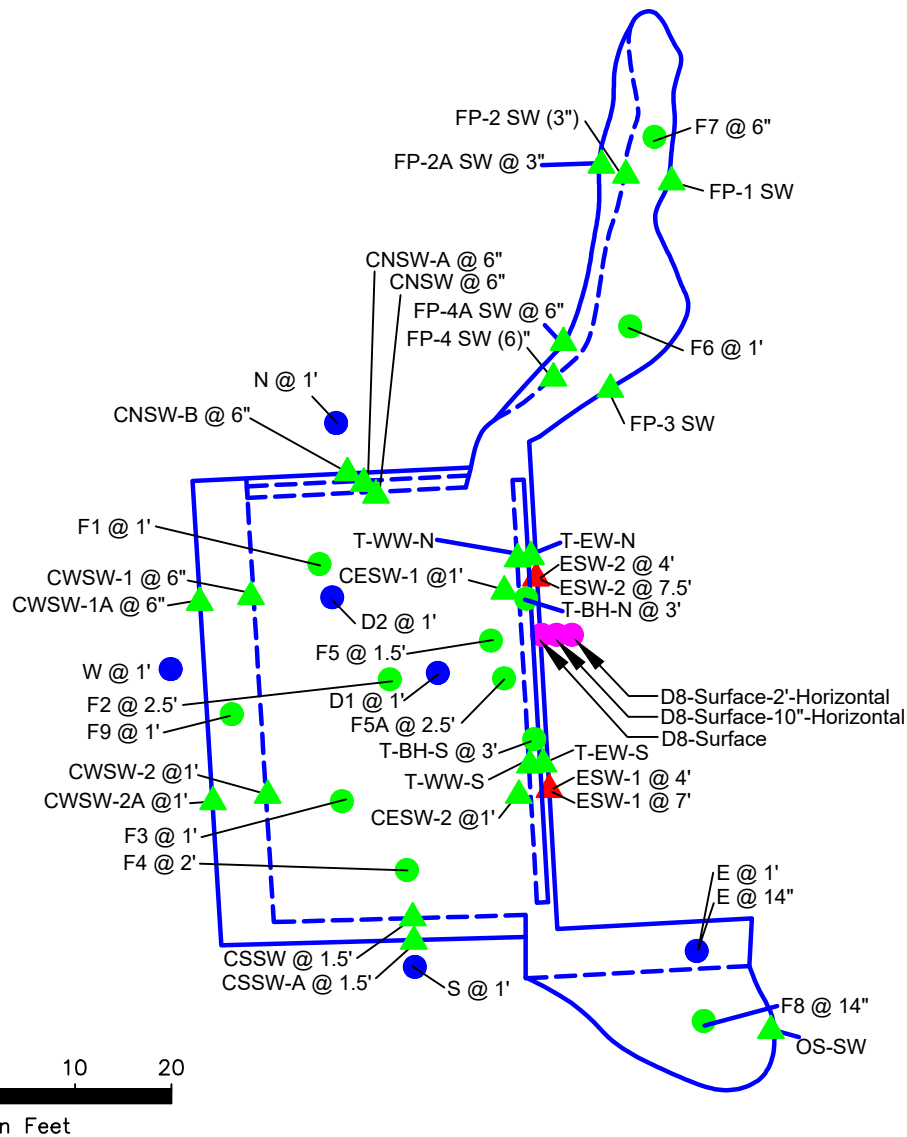


Figure 3
Karst Potential Map
Plains Pipeline, L.P.
COG Screech Owl Federal CTB
Eddy County, NM

Scale: 1" = 3000'
CAD By: CS
Checked By: CS
Draft: August 6, 2020
Lat. N 32.038972° Long. W 104.232091°
ULT K, Sec 18, T26S R27E



10 Desta Drive, Suite 150E
Midland, Texas 79703
432.520.7720



LEGEND:

- | | |
|-----------------------------------|--------------------------------------|
| Area of Impact | 2020 Delineation Sample Location |
| 2017 Sidewall Sample Location | 2020 Sidewall Soil Sample Location |
| 2017 Surface Soil Sample Location | 2020 Excavation Soil Sample Location |

Figure 4

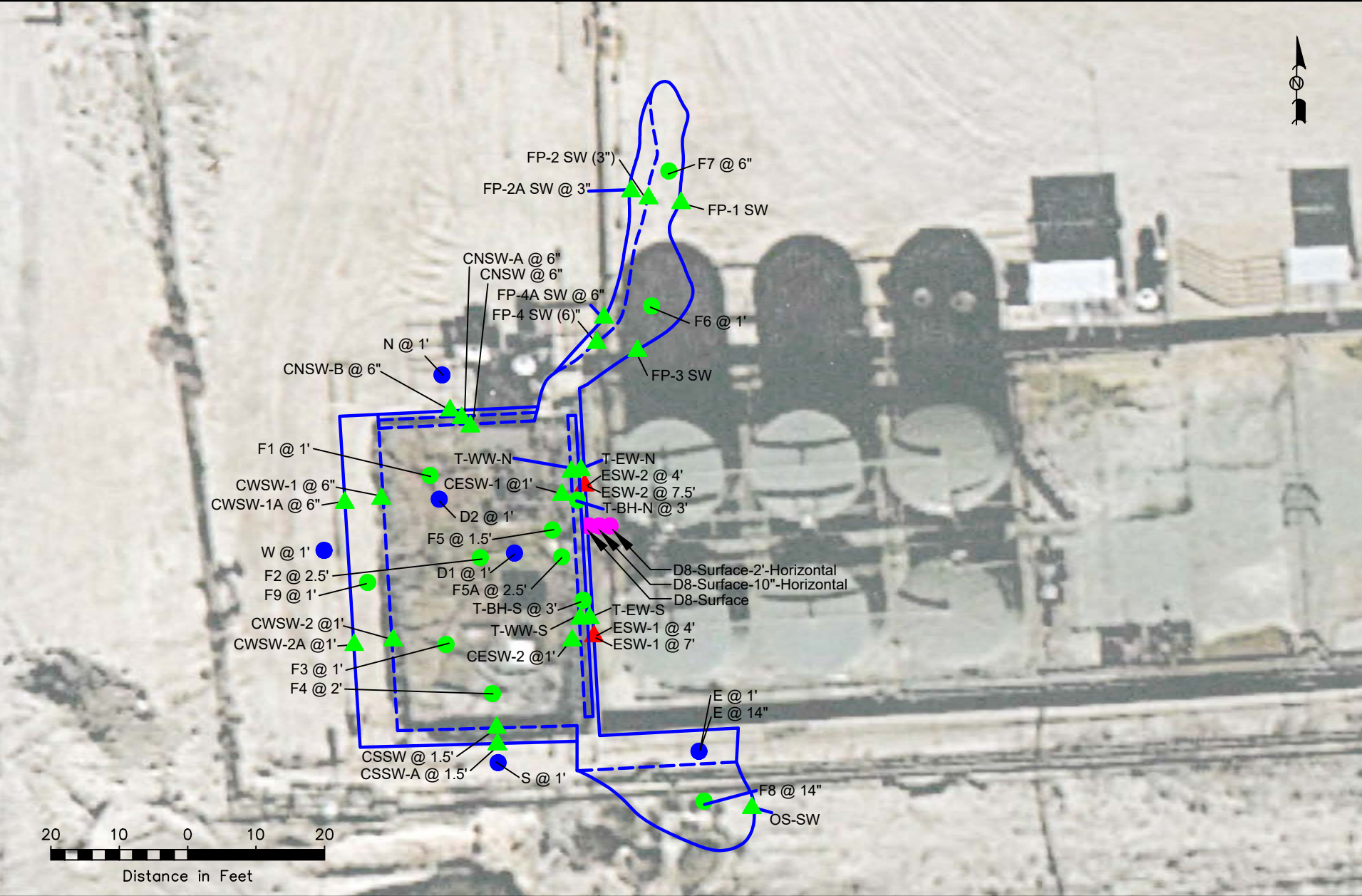
Excavation and Sample Location Map
Plains Pipeline, L.P.
COG Screech Owl Federal CTB
Eddy County, NM

Scale: 1" = 20'

CAD By: CS	Checked By: CS
Draft: July 28, 2020	
Lat. N 32.09125°	Long. W 104.23278°
NE1/4 SW1/4 Sec 18 T26S R27E	
TRC Proj. No.: 391243	



DRAWING NAME: Y:\Nova\Project Files\Plains\New Mexico\COG - Screech Owl Federal CTB - New\ Figure 5 Screech Owl CTB July 2020.dwg --- PLOT DATE: October 20, 2020 - 1:01PM --- LAYOUT: Layout1



LEGEND:

Area of Impact	2020 Delineation Sample Location
2017 Sidewall Sample Location	2020 Sidewall Soil Sample Location
2017 Surface Soil Sample Location	2020 Excavation Soil Sample Location

Figure 5
Excavation and Sample Location Map
with Aerial Photographic Imagery
Plains Pipeline, L.P.
COG Screech Owl Federal CTB
Eddy County, NM

Scale: 1" = 20'	
CAD By: CS	Checked By: CS
Draft: July 28, 2020	
Lat. N 32.09125°	Long. W 104.23278°
NE1/4 SW1/4 Sec 18 T26S R27E	
TRC Proj. No.: 391243	

10 Desta Drive, Suite 150E
Midland, Texas 79705
432.520.7720

Table

TABLE 1
CONCENTRATIONS OF BTEX, TPH, AND CHLORIDE IN SOIL

COG - Screech Owl Federal CTB
PLAINS PIPELINE, L.P.
EDDY COUNTY, NM
PLAINS SRS NUMBER: 2020-030

SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH	STATUS	Methods: EPA SW 846-8021B, 5030						Methods:					Method
				BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	m,p XYLENE (mg/kg)	o XYLENE (mg/kg)	TOTAL BTEX (mg/kg)	EPA SW 846-8015M					300.0
										GRO (mg/kg) C ₆ - C ₁₀	DRO (mg/kg) C ₁₀ - C ₂₈	GRO + DRO (mg/kg) C ₂₈	ORO (mg/kg) C ₂₈ - C ₃₅	TOTAL TPH (mg/kg) C ₆ - C ₃₅	CHLORIDE (mg/kg)
NMOCD Regulatory Guideline				10	-	-	-	-	50	-	-	1,000	-	2,500	600
D1 @ 1'	4/7/2020	1'	Excavated	<0.00119	<0.00119	<0.00119	0.00287	<0.00119	0.00287	<29.8	<29.8	<29.8	<29.8	<29.8	16.8
D2 @ 1'	4/7/2020	1'	Excavated	<0.00119	<0.00119	<0.00119	<0.00238	<0.00119	<0.00238	<29.8	<29.8	<29.8	<29.8	<29.8	34.6
E @ 1'	4/7/2020	1'	Excavated	0.00256	0.00934	0.00309	0.0405	0.00971	0.06520	52.9	2010	2062.9	271	2333.9	1050
S @ 1'	4/7/2020	1'	In-Situ	<0.00119	<0.00119	<0.00119	<0.00238	<0.00119	<0.00238	<29.8	<29.8	<29.8	<29.8	<29.8	20.0
W @ 1'	4/7/2020	1'	In-Situ	<0.00116	<0.00116	<0.00116	<0.00233	<0.00116	<0.00233	<29.1	<29.1	<29.1	<29.1	<29.1	33.9
N @ 1'	4/7/2020	1'	In-Situ	<0.00130	<0.00130	<0.00130	0.00353	0.00148	0.00501	<32.5	<32.5	<32.5	<32.5	<32.5	61.3
E @ 14"	4/9/2020	14"	In-Situ	<0.00115	<0.00115	<0.00115	<0.00230	<0.00115	<0.00230	<28.7	197	197	37.8	234.8	204
F1 @ 1'	6/11/2020	1'	In-Situ	<0.00102	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	<25.5	767	767	119	886	127
F2 @ 2.5'	6/11/2020	2.5'	In-Situ	<0.00106	<0.00532	<0.00532	<0.00532	<0.00532	<0.00532	<26.6	584	584	93.9	677.9	261
F3 @ 1'	6/11/2020	1'	In-Situ	<0.00101	<0.00505	<0.00505	<0.00505	<0.00505	<0.00505	<25.3	122	122	<25.3	122	58.6
F4 @ 2'	6/11/2020	2'	In-Situ	<0.00103	<0.00515	<0.00515	<0.00515	<0.00515	<0.00515	<25.8	395	395	53.4	448.4	77.2
F5 @ 1.5'	6/11/2020	1.5'	Excavated	<0.00104	<0.00521	<0.00521	0.00716	<0.00521	0.00716	112	3860	3972	496	4468	43.4
F6 @ 1'	6/11/2020	1'	In-Situ	<0.00103	<0.00515	<0.00515	<0.00515	<0.00515	<0.00515	<25.8	384	384	71.9	456	209
F7 @ 6"	6/11/2020	6"	In-Situ	0.0125	<0.00505	<0.00505	0.00966	<0.00505	0.02216	<25.3	541	541	106	647	125
CNSW @ 6"	6/11/2020	6"	Excavated	<0.00101	<0.00505	<0.00505	0.0394	0.0161	0.0555	278	7800	8078	892	8970	59.4
CSSW @ 1.5'	6/11/2020	1.5'	Excavated	<0.00102	<0.00510	<0.00510	0.0116	<0.00510	0.0116	65.5	2120	2186	311	2497	56.7
CWSW-1 @ 6"	6/11/2020	6"	Excavated	<0.00108	<0.00538	<0.00538	<0.00538	<0.00538	<0.00538	50.6	5080	5130.6	852	5983	524
CWSW-2 @ 1'	6/11/2020	1'	Excavated	<0.00101	<0.00505	<0.00505	0.0110	<0.00505	0.0110	259	4780	5039	676	5715	32.9
CESW-1 @ 1'	6/11/2020	1'	Excavated	<0.00101	0.00524	<0.00505	0.0280	0.00911	0.04235	294	8420	8714	1000	9714	17.8
CESW-2 @ 1'	6/11/2020	1'	Excavated	<0.00103	<0.00515	<0.00515	0.0277	0.0107	0.0384	228	6320	6548	773	7321	17.4
FP-1 SW	6/11/2020	3"	In-Situ	<0.00101	0.0101	<0.00505	0.00509	<0.00505	0.01519	<25.3	868	868	183	1051	133
FP-2 SW	6/11/2020	3"	Excavated	0.0127	0.0124	<0.00500	<0.00500	<0.00500	0.0251	<25.0	1220	1220	241	1461	176
FP-3 SW	6/11/2020	6"	In-Situ	0.00428	0.0397	0.00647	0.0428	0.0166	0.10985	<25.0	710	710	124	834	216
FP-4 SW	6/11/2020	6"	Excavated	<0.00104	0.00566	<0.00521	0.0286	0.0118	0.04606	56.3	2910	2966	586	3552	188
F8 @ 14"	6/17/2020	14"	In-Situ	<0.00109	<0.00543	<0.00543	<0.00543	<0.00543	<0.00543	<27.2	78.5	78.5	<27.2	78.5	194
OS-SW	6/17/2020	8"	In-Situ	<0.00108	<0.00538	<0.00538	<0.00538	<0.00543	<0.00543	<26.9	<26.9	<26.9	<26.9	<26.9	331
T-WW-N	6/17/2020	2'	Excavated	<0.00102	<0.00510	<0.00510	<0.00510	<0.00510	<0.00510	50.5	2060	2110.5	305	2410	162
T-WW-S	6/17/2020	2'	Excavated	<0.00101	<0.00505	<0.00505	0.00533	<0.00505	0.00533	83.1	4370	4453.1	632	5085.1	87.2
T-BH-N @ 3'	6/17/2020	3'	DEFERRED	<0.00106	<0.00532	<0.00532	0.00957	<0.00532	0.00957	275	8820	9095	1600	10695	229
T-BH-S @ 3'	6/17/2020	3'	DEFERRED	<0.00106	<0.00532	<0.00532	0.00979	<0.00532	0.00979	416	13100	13516	1900	15416	91.2

TABLE 1
CONCENTRATIONS OF BTEX, TPH, AND CHLORIDE IN SOIL

COG - Screech Owl Federal CTB
PLAINS PIPELINE, L.P.
EDDY COUNTY, NM
PLAINS SRS NUMBER: 2020-030

SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH	STATUS	Methods: EPA SW 846-8021B, 5030						Methods:					Method
				BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	m,p XYLENE (mg/kg)	o XYLENE (mg/kg)	TOTAL BTEX (mg/kg)	EPA SW 846-8015M					300.0
										GRO (mg/kg) C ₆ - C ₁₀	DRO (mg/kg) C ₁₀ - C ₂₈	GRO + DRO (mg/kg) C ₆ - C ₂₈	ORO (mg/kg) C ₂₈ - C ₃₅	TOTAL TPH (mg/kg) C ₆ - C ₃₅	CHLORIDE (mg/kg)
NMOCD Regulatory Guideline				10	-	-	-	-	50	-	-	1,000	-	2,500	600
T-EW-N	6/17/2020	2'	DEFERRED	<0.00108	<0.00538	<0.00538	<0.00538	<0.00538	<0.00538	320	25500	25820	5300	31120	111
T-EW-S	6/17/2020	2'	DEFERRED	<0.00104	<0.00521	<0.00521	<0.00521	<0.00521	<0.00521	<260	16600	16600	3650.00	20250	89.0
CWSW-1A @ 6"	7/1/2020	6"	In-Situ	<0.00104	<0.00208	<0.00104	<0.00208	<0.00104	<0.00208	<26.0	37.0	37.0	<26.0	37.0	59.5
CWSW-2A @ 1'	7/1/2020	1'	In-Situ	<0.00106	<0.00213	<0.00106	<0.00213	<0.00106	<0.00213	<26.2	<26.2	<26.2	<26.2	<26.2	46.2
CSSW-A @ 1.5'	7/1/2020	1.5'	In-Situ	<0.00109	<0.00217	<0.00109	<0.00217	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	<27.2	26.9
F9 @ 1'	7/1/2020	1'	In-Situ	<0.00108	<0.00215	<0.00108	<0.00215	<0.00108	<0.00215	<26.9	44.2	44.2	<26.9	44.2	38.9
FP-4A SW @ 6"	7/7/2020	6"	In-Situ	<0.00111	<0.00111	<0.00111	<0.00222	<0.00111	<0.00222	<27.8	74.5	74.5	<27.8	74.5	32.4
FP-2A SW @ 3"	7/7/2020	3"	In-Situ	<0.00114	<0.00114	<0.00114	<0.00227	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	<28.4	8.45
F-5A @ 2.5'	7/7/2020	2.5'	In-Situ	<0.00104	<0.00104	<0.00104	0.00573	<0.00104	0.00573	<26.0	635	635	82.9	717.9	23.9
CNSW-A @ 6"	7/8/2020	6"	Excavated	<0.00101	<0.00101	<0.00101	0.00246	<0.00101	0.00246	209	9000	9209	1500	10709	33.5
CNSW-B @ 6"	7/15/2020	6"	In-Situ	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.5	<25.5	<25.5	<25.5	<25.5	75.0

Appendix A

Photographic Documentation



Photographic Documentation

Client: Plains Pipeline, L.P.
Project Name: COG Screech Owl Federal CTB

Prepared by: TRC Environmental Corporation
Location: Eddy County, New Mexico

Photograph No. 1

Date:
April 7, 2020

Direction:
Looking south

Description:
Photo of initial
Release on north
side of COG
containment.



Photograph No. 2

Date:
April 8, 2020

Direction:
Looking northwest

Description:
Excavation of
saturated soil
during initial
response
activities.





Photographic Documentation

Client: Plains Pipeline, L.P.
Project Name: COG Screech Owl Federal CTB

Prepared by: TRC Environmental Corporation
Location: Eddy County, New Mexico

Photograph No. 3

Date:
April 8, 2020

Direction:
Looking west

Description:
Excavation of
saturated soil
during initial
response
activities.



Photograph No. 4

Date:
April 9, 2020

Direction:
Looking north

Description:
Excavation of
saturated soil
during initial
response activities
completed.





Photographic Documentation

Client: Plains Pipeline, L.P.
Project Name: COG Screech Owl Federal CTB

Prepared by: TRC Environmental Corporation
Location: Eddy County, New Mexico

Photograph No. 5

Date:
April 9, 2020

Direction:
Looking northeast

Description:
North flowpath
prior to excavation
activities.



Photograph No. 6

Date:
September 21,
2020

Direction:
Looking southeast

Description:
North flowpath
area backfilled
following
excavation
activities.





Photographic Documentation

Client: Plains Pipeline, L.P.
Project Name: COG Screech Owl Federal CTB

Prepared by: TRC Environmental Corporation
Location: Eddy County, New Mexico

Photograph No. 7

Date:
September 21,
2020

Direction:
Looking south

Description:
Facility polyliner
and security
fencing re-
established.



Photograph No. 8

Date:
September 21,
2020

Direction:
Looking east

Description:
Facility polyliner
and security
fencing re-
established.

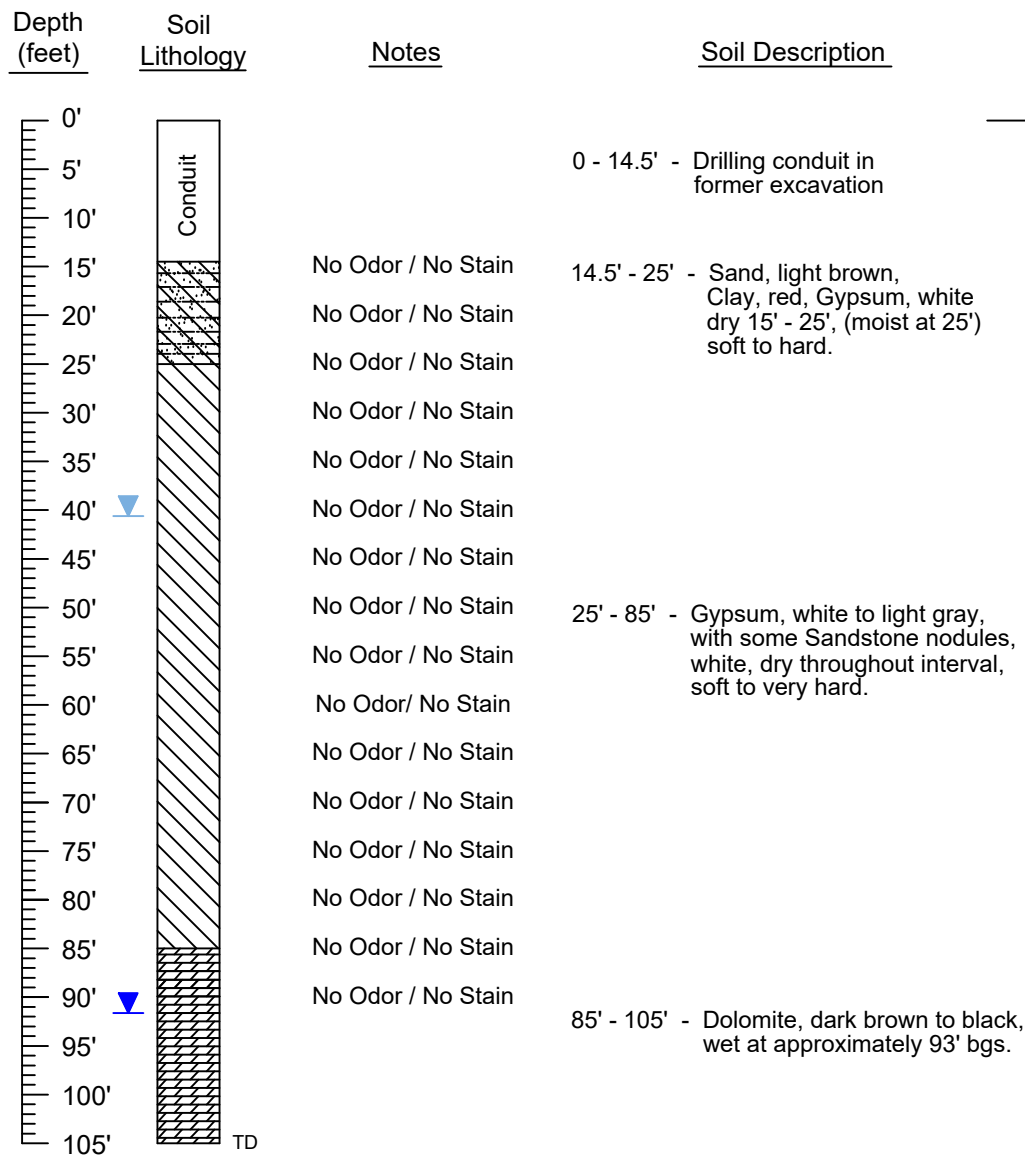


Appendix B

Monitor Well MW-1 Log

Monitor Well MW-1

Monitor Well Details



Date Drilled September 20, 2018
 Thickness of Bentonite Seal 3 ft
 Length of PVC Well Screen 37 ft
 Depth of PVC Well 105 ft
 Depth of Exploratory Well 105 ft

- Grout Surface Seal - 3' to Surface
- Bentonite Pellet Seal - 40' to 3'
- Sand Pack - 40' to 105'
- Screen - 45' to 105"

Indicates the ground water level measured on 9/20/2018.
 Indicates the ground water level measured on 9/29/2018.

Completion Notes

- The monitor well was installed on date using Air rotary drilling techniques.
- The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is flush mount Style.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Figure 3
MW-1 Boring Log And Monitor Well Details
Plains Pipeline, LP
Alpha Gathering Seg 3 LAT 6E Eddy County, NM

Scale: None
CAD By: CS
Checked By: CS
Draft: October 21, 2018
Lat. N 32.039236° Long. W 104.131222°
TRC Proj. No.: 274959



Appendix C

NMOCD Correspondence

From: [Amber L Groves](#)
To: [Stanley, Curtis D.](#)
Subject: [EXTERNAL] Fwd: NRM2009254898 Plains Screech Owl Variance Request & Addendum
Date: Monday, June 8, 2020 10:41:13 AM

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Hey Curt,

I just received approval on the variance for Screech Owl. Let's get confirmation samples, please!

Thank you,
Amber

Sent from my iPhone

Begin forwarded message:

From: "Billings, Bradford, EMNRD" <Bradford.Billings@state.nm.us>
Date: June 8, 2020 at 9:36:50 AM MDT
To: Amber L Groves <ALGroves@paalp.com>
Subject: RE: NRM2009254898 Plains Screech Owl Variance Request & Addendum [External]

6/08/2020

Plains Pipeline

Amber Groves – Plains

Dear Amber,

As per your request below, and with the following understanding as presented, Plains has approval to carry on with investigation as outlined below and to utilize the delineation data from other release for data source when Plains submits the likely deferral documentation.

If there are any questions please do not hesitate to contact me as needs arise. Please keep a copy of this communication and associated email sting as no paper copy will follow.

Thank you for your efforts.

Sincerely,

Bradford Billings
EMNRD/OCD

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations

From: Amber L Groves <ALGroves@paalp.com>
Sent: Monday, June 1, 2020 3:11 PM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Subject: [EXT] RE: NRM2009254898 Plains Screech Owl Variance Request & Addendum

Bradford,

To clarify from our recent conversation, Plains has a deferral in place under 2RP-4147 for the area between Plains' LACT berm and COG's containment. It is currently excavated to 3' bgs, and the previously deferred area will need to remain in place due to proximity to in place equipment. Plains will take confirmation samples of the 50 ft X 2ft area that will be requested as a deferral in the closure request, and would like to utilize the delineation data from the 2017 deferral for the impact that was left in place. Additional deferral of this area will be based on the analytical results from the monitor well installed in 2018 being above the NMWQCC standard for abatable groundwater.

Thank you,

Amber

From: Amber L Groves
Sent: Monday, June 1, 2020 2:26 PM
To: 'Billings, Bradford, EMNRD' <Bradford.Billings@state.nm.us>
Subject: FW: NRM2009254898 Plains Screech Owl Variance Request & Addendum

Good Afternoon, Bradford,

Below are the two variance requests that I sent in for our Screech Owl site. I just pasted both sets of verbiage here and the data is all attached. Please feel free to give me a call with any questions and as always it was good talking to you today!

Plains would like to respectfully add an addendum to the below variance request that was submitted to NMOCD on April 21, 2020. A portion of the March 28, 2020 release occurred directly into a flow path from a previously deferred release. 2RP-4147 occurred on March 11, 2017 and a portion of Plains' release was deferred due to its proximity to COG's CTB containment. The portion of Plains' current release that occurred in conjunction with the deferred area of 2RP-4147 is 50 ft in length X 2ft in width and has been excavated to an approximate depth of 3 ft bgs. Attached is a chemistry table outlining delineation samples from the 2017 release noting a depth of 4 ft bgs with a concentration of 2,984 mg/kg TPH and 7 ft bgs with a concentration of 33.2 mg/kg TPH. During excavation activities through 2017 and 2018, it was necessary for Plains to utilize a hammer hoe due to the geologic formation characterized as gypsum in the area. As such, utilizing a hand auger for delineation purposes has proved ineffectual. Also attached in the 2017 and 2020 combined documentation are photos indicating the infeasibility of utilizing equipment due to the existence of piping and LACT equipment in coexistence with COG's tank battery in relation to the 50 ft X 2ft area.

As indicated in the variance request below, Plains installed a monitor well at this location on October 8, 2018. Results from TDS analysis exceeded the NMWQCC standard for abatable groundwater. With the groundwater and geologic information presented, Plains respectfully requests for delineation data from 2017 to suffice in characterization of the current release for the 50 ft X 2ft area between Plains' LACT containment and COG's CTB containment. Please feel free to give me a call should you have any questions.

On March 28, 2020, Plains had an approximate 15 bbl release at COG's Screech Owl CTB. The C-141 was filed with NMOCD online on April 1, 2020 and assigned NRM2009254898. Initial delineation activities at the release site commenced on April 7, 2020 and soil sample results can be found in the attached Chemistry Table. Soil samples were advanced to 1 ft. bgs with the East (E) sample being advanced to a terminal depth of 14" with a result of 234.8 mg/kg TPH.

On September 20, 2018, Plains installed a monitor well at the COG Screech Owl CTB. Depth to water was determined to be approximately 93 feet bgs. A groundwater sample was collected on October 8, 2018 and analyzed for total dissolved solids (TDS). The analytical results indicated the TDS concentration was 485,000 mg/L. This result exceeds the NMOCD and New Mexico Water Quality Control Commission (NMWQCC) standard of 10,000 mg/L for abatable water. Please find attached the boring log and the analytical results from the groundwater sample collected from the monitor well. Also attached is published /pertinent information regarding the groundwater in the area. While Plains acknowledges the site is located in a high karst area, we respectfully request a variance for vertical delineation based on the downward trend of TPH concentrations collected from soil sample E and an impermeable gypsum layer, being

sufficed at the 234.8 mg/kg TPH. Plains also respectfully requests a variance on the 100 mg/kg confirmation sample standard to the 2,500 mg/kg standard in Table 1. Both variance requests are based on the provided groundwater data.

Thank you,

Amber L. Groves
Remediation Coordinator
Plains All American
3112 W. US Hwy 82
Lovington, NM 88260
575-200-5517

From: Amber L Groves

Sent: Thursday, April 30, 2020 10:10 AM

To: 'Billings, Bradford, EMNRD' <Bradford.Billings@state.nm.us>;

'cristina.eads@state.nm.us' <cristina.eads@state.nm.us>;

'victoria.venegas@state.nm.us' <victoria.venegas@state.nm.us>;

'robert.hamlet@state.nm.us' <robert.hamlet@state.nm.us>

Cc: 'mike.bratcher@state.nm.us' <mike.bratcher@state.nm.us>; Camille J Bryant <CJBryant@paalp.com>; 'Stanley, Curtis D.' <CDStanley@trccompanies.com>

Subject: NRM2009254898 Plains Screech Owl Variance Request & Addendum

Good Morning,

Plains would like to respectfully add an addendum to the below variance request that was submitted to NMOCD on April 21, 2020. A portion of the March 28, 2020 release occurred directly into a flow path from a previously deferred release. 2RP-4147 occurred on March 11, 2017 and a portion of Plains' release was deferred due to its proximity to COG's CTB containment. The portion of Plains' current release that occurred in conjunction with the deferred area of 2RP-4147 is 50 ft in length X 2ft in width and has been excavated to an approximate depth of 3 ft bgs. Attached is a chemistry table outlining delineation samples from the 2017 release noting a depth of 4 ft bgs with a concentration of 2,984 mg/kg TPH and 7 ft bgs with a concentration of 33.2 mg/kg TPH. During excavation activities through 2017 and 2018, it was necessary for Plains to utilize a hammer hoe due to the geologic formation characterized as gypsum in the area. As such, utilizing a hand auger for delineation purposes has proved ineffectual. Also attached in the 2017 and 2020 combined documentation are photos indicating the infeasibility of utilizing equipment due to the existence of piping and LACT equipment in coexistence with COG's tank battery in relation to the 50 ft X 2ft area.

As indicated in the variance request below, Plains installed a monitor well at this location on October 8, 2018. Results from TDS analysis exceeded the NMWQCC standard for abatable groundwater. With the groundwater and geologic information presented, Plains respectfully requests for delineation data from 2017 to suffice in characterization of the current release for the 50 ft X 2ft area between Plains' LACT containment and COG's CTB containment. Please feel free to give me a call should you have any questions.

Thank you,

Amber L. Groves
Remediation Coordinator
Plains All American
3112 W. US Hwy 82
Lovington, NM 88260
575-200-5517

From: Amber L Groves

Sent: Tuesday, April 21, 2020 9:51 AM

To: 'Billings, Bradford, EMNRD' <Bradford.Billings@state.nm.us>;

'cristina.eads@state.nm.us' <cristina.eads@state.nm.us>;

'victoria.venegas@state.nm.us' <victoria.venegas@state.nm.us>;

'robert.hamlet@state.nm.us' <robert.hamlet@state.nm.us>

Cc: 'mike.bratcher@state.nm.us' <mike.bratcher@state.nm.us>; Camille J Bryant <CJBryant@paalp.com>; Stanley, Curtis D. <CDStanley@trccompanies.com>

Subject: NRM2009254898 Plains Screech Owl Variance Request

Good Morning,

On March 28, 2020, Plains had an approximate 15 bbl release at COG's Screech Owl CTB. The C-141 was filed with NMOCD online on April 1, 2020 and assigned NRM2009254898. Initial delineation activities at the release site commenced on April 7, 2020 and soil sample results can be found in the attached Chemistry Table. Soil samples were advanced to 1 ft. bgs with the East (E) sample being advanced to a terminal depth of 14" with a result of 234.8 mg/kg TPH.

On September 20, 2018, Plains installed a monitor well at the COG Screech Owl CTB. Depth to water was determined to be approximately 93 feet bgs. A groundwater sample was collected on October 8, 2018 and analyzed for total dissolved solids (TDS). The analytical results indicated the TDS concentration was 485,000 mg/L. This result exceeds the NMOCD and New Mexico Water Quality Control Commission (NMWQCC)

standard of 10,000 mg/L for abatable water. Please find attached the boring log and the analytical results from the groundwater sample collected from the monitor well. Also attached is published /pertinent information regarding the groundwater in the area. While Plains acknowledges the site is located in a high karst area, we respectfully request a variance for vertical delineation based on the downward trend of TPH concentrations collected from soil sample E and an impermeable gypsum layer, being sufficed at the 234.8 mg/kg TPH. Plains also respectfully requests a variance on the 100 mg/kg confirmation sample standard to the 2,500 mg/kg standard in Table 1. Both variance requests are based on the provided groundwater data.

Please feel free to give me a call should you have any questions!

Thank you,

Amber L. Groves
Remediation Coordinator
Plains All American
3112 W. US Hwy 82
Lovington, NM 88260
575-200-5517

Attention:

The information contained in this message and/or attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. If you received this in error, please contact the Plains Service Desk at 713-646-4444 and delete the material from any system and destroy any copies.

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Appendix D

Chloride Field Test Results

CHLORIDE FIELD TEST RESULTS

**COG SCREECH OWL FEDERAL CTB
PLAINS PIPELINE, LP
EDDY COUNTY, NM
Incident ID NRM2009254898**

SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (feet)	FIELD SCREEN CHLORIDE (mg/kg)
E @ 14"	4/9/2020	14"	156
F1 @ 1'	6/11/2020	1'	ND
F2 @ 2.5'	6/11/2020	2.5'	212
F3 @ 1'	6/11/2020	1'	ND
F4 @ 2'	6/11/2020	2'	ND
F5 @ 1.5'	6/11/2020	1.5'	ND
F6 @ 1'	6/11/2020	1'	212
F7 @ 6"	6/11/2020	6"	ND
CNSW @ 6"	6/11/2020	6"	ND
CSSW @ 1.5'	6/11/2020	1.5'	ND
CWSW-1 @ 6"	6/11/2020	6"	212
CWSW-2 @ 1'	6/11/2020	1'	ND
CESW-1 @ 1'	6/11/2020	1'	ND
FP-1 SW	6/11/2020	3"	ND
FP-2 SW	6/11/2020	3"	212
FP-3 SW	6/11/2020	6"	212
FP-4 SW	6/11/2020	6"	184
T-WW-N	6/17/2020	2'	ND
T-WW-S	6/17/2020	2'	ND
T-BH-N @ 3'	6/17/2020	3'	ND
T-BH-S @ 3'	6/17/2020	3'	356
T-EW-N	6/17/2020	2'	ND
T-EW-S	6/17/2020	2'	ND
CWSW-1A @ 6"	7/1/2020	6"	ND
CWSW-2A @ 1'	7/1/2020	1'	ND
CSSW-A @ 1.5'	7/1/2020	1.5'	ND
F9 @ 1'	7/1/2020	1'	ND
FP-4A SW @ 6"	7/7/2020	6"	ND
FP-2A SW @ 3"	7/7/2020	3"	ND
F-5A @ 2.5'	7/7/2020	2.5'	ND
CNSW-A @ 6"	7/8/2020	6"	ND

Appendix E

Laboratory Analytical Reports

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: COG-Screech Owl CTB

Project Number: 2020-030

Location:

Lab Order Number: 0D08002



NELAP/TCEQ # T104704516-18-9

Report Date: 04/09/20

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
D1 @ 1'	0D08002-01	Soil	04/07/20 10:10	04-08-2020 09:11
D1 @ 2'	0D08002-02	Soil	04/07/20 10:20	04-08-2020 09:11
D2 @ 1'	0D08002-03	Soil	04/07/20 10:40	04-08-2020 09:11
D2 @ 2'	0D08002-04	Soil	04/07/20 10:50	04-08-2020 09:11
E @ 1'	0D08002-05	Soil	04/07/20 11:20	04-08-2020 09:11
S @ 1'	0D08002-06	Soil	04/07/20 11:30	04-08-2020 09:11
W @ 1'	0D08002-07	Soil	04/07/20 11:50	04-08-2020 09:11
N @ 1'	0D08002-08	Soil	04/07/20 12:10	04-08-2020 09:11

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

D1 @ 1'
0D08002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00119	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Xylene (p/m)	0.00287	0.00238	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.1 %	75-125		P0D0802	04/08/20	04/08/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		94.0 %	75-125		P0D0802	04/08/20	04/08/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	16.8	1.19	mg/kg dry	1	P0D0804	04/08/20	04/09/20	EPA 300.0	
% Moisture	16.0	0.1	%	1	P0D0901	04/09/20	04/09/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		87.0 %	70-130		P0D0803	04/08/20	04/08/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		102 %	70-130		P0D0803	04/08/20	04/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	04/08/20	04/08/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

D1 @ 2'

0D08002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	17.0	0.1	%	1	P0D0901	04/09/20	04/09/20	ASTM D2216	
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

D2 @ 1'
0D08002-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00119	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.4 %	75-125		P0D0802	04/08/20	04/08/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.0 %	75-125		P0D0802	04/08/20	04/08/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	34.6	1.19	mg/kg dry	1	P0D0804	04/08/20	04/09/20	EPA 300.0	
% Moisture	16.0	0.1	%	1	P0D0901	04/09/20	04/09/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		76.4 %	70-130		P0D0803	04/08/20	04/08/20	TPH 8015M	
Surrogate: o-Terphenyl		89.4 %	70-130		P0D0803	04/08/20	04/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	04/08/20	04/08/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

D2 @ 2'

0D08002-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	16.0	0.1	%	1	P0D0901	04/09/20	04/09/20	ASTM D2216	
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

E @ 1'
0D08002-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	0.00256	0.00112	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Toluene	0.00934	0.00112	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Ethylbenzene	0.00309	0.00112	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Xylene (p/m)	0.0405	0.00225	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Xylene (o)	0.00971	0.00112	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	75-125		P0D0802	04/08/20	04/08/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		102 %	75-125		P0D0802	04/08/20	04/08/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1050	28.1	mg/kg dry	25	P0D0804	04/08/20	04/09/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0D0901	04/09/20	04/09/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	52.9	28.1	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
>C12-C28	2010	28.1	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
>C28-C35	271	28.1	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		89.0 %	70-130		P0D0803	04/08/20	04/08/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		117 %	70-130		P0D0803	04/08/20	04/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2330	28.1	mg/kg dry	1	[CALC]	04/08/20	04/08/20	calc	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

S @ 1'
0D08002-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00119	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.4 %	75-125		P0D0802	04/08/20	04/08/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0D0802	04/08/20	04/08/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	20.0	1.19	mg/kg dry	1	P0D0804	04/08/20	04/09/20	EPA 300.0	
% Moisture	16.0	0.1	%	1	P0D0901	04/09/20	04/09/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.8 %	70-130		P0D0803	04/08/20	04/08/20	TPH 8015M	
Surrogate: o-Terphenyl		95.8 %	70-130		P0D0803	04/08/20	04/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	04/08/20	04/08/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

W @ 1'
0D08002-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00116	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.4 %	75-125		P0D0802	04/08/20	04/08/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0D0802	04/08/20	04/08/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	33.9	1.16	mg/kg dry	1	P0D0804	04/08/20	04/09/20	EPA 300.0	
% Moisture	14.0	0.1	%	1	P0D0901	04/09/20	04/09/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		78.3 %	70-130		P0D0803	04/08/20	04/08/20	TPH 8015M	
Surrogate: o-Terphenyl		89.4 %	70-130		P0D0803	04/08/20	04/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	04/08/20	04/08/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

N @ 1'

0D08002-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00130	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Toluene	ND	0.00130	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Ethylbenzene	ND	0.00130	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Xylene (p/m)	0.00353	0.00260	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Xylene (o)	0.00148	0.00130	mg/kg dry	1	P0D0802	04/08/20	04/08/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0D0802	04/08/20	04/08/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.4 %	75-125		P0D0802	04/08/20	04/08/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	61.3	1.30	mg/kg dry	1	P0D0804	04/08/20	04/09/20	EPA 300.0	
% Moisture	23.0	0.1	%	1	P0D0901	04/09/20	04/09/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	32.5	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
>C12-C28	ND	32.5	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
>C28-C35	ND	32.5	mg/kg dry	1	P0D0803	04/08/20	04/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		78.6 %	70-130		P0D0803	04/08/20	04/08/20	TPH 8015M	
Surrogate: o-Terphenyl		89.5 %	70-130		P0D0803	04/08/20	04/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.5	mg/kg dry	1	[CALC]	04/08/20	04/08/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0D0802 - General Preparation (GC)

Blank (P0D0802-BLK1)

Prepared & Analyzed: 04/08/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.4	75-125			

LCS (P0D0802-BS1)

Prepared & Analyzed: 04/08/20

Benzene	0.0945	0.00100	mg/kg wet	0.100		94.5	70-130			
Toluene	0.0945	0.00100	"	0.100		94.5	70-130			
Ethylbenzene	0.100	0.00100	"	0.100		100	70-130			
Xylene (p/m)	0.207	0.00200	"	0.200		103	70-130			
Xylene (o)	0.106	0.00100	"	0.100		106	70-130			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.7	75-125			

LCS Dup (P0D0802-BSD1)

Prepared & Analyzed: 04/08/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	70-130	6.64	20	
Toluene	0.103	0.00100	"	0.100		103	70-130	8.86	20	
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130	2.37	20	
Xylene (p/m)	0.224	0.00200	"	0.200		112	70-130	7.99	20	
Xylene (o)	0.104	0.00100	"	0.100		104	70-130	1.27	20	
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		97.1	75-125			

Calibration Check (P0D0802-CCV2)

Prepared & Analyzed: 04/08/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.216	0.00200	"	0.200		108	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			

Permian Basin Environmental Lab, L.P.

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10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0D0802 - General Preparation (GC)

Matrix Spike (P0D0802-MS1)		Source: 0D08002-01		Prepared & Analyzed: 04/08/20						
Benzene	0.0939	0.00119	mg/kg dry	0.119	ND	78.9	80-120			QM-07
Toluene	0.0967	0.00119	"	0.119	0.00104	80.4	80-120			
Ethylbenzene	0.119	0.00119	"	0.119	ND	99.9	80-120			
Xylene (p/m)	0.206	0.00238	"	0.238	0.00287	85.3	80-120			
Xylene (o)	0.103	0.00119	"	0.119	0.000631	86.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.144		"	0.143		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.153		"	0.143		107	75-125			

Matrix Spike Dup (P0D0802-MSD1)		Source: 0D08002-01		Prepared & Analyzed: 04/08/20						
Benzene	0.0981	0.00119	mg/kg dry	0.119	ND	82.4	80-120	4.39	20	
Toluene	0.0997	0.00119	"	0.119	0.00104	82.9	80-120	3.04	20	
Ethylbenzene	0.120	0.00119	"	0.119	ND	101	80-120	0.678	20	
Xylene (p/m)	0.207	0.00238	"	0.238	0.00287	85.7	80-120	0.491	20	
Xylene (o)	0.107	0.00119	"	0.119	0.000631	89.4	80-120	3.79	20	
Surrogate: 1,4-Difluorobenzene	0.146		"	0.143		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.151		"	0.143		106	75-125			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0D0804 - * DEFAULT PREP *****

Blank (P0D0804-BLK1)				Prepared: 04/08/20 Analyzed: 04/09/20						
Chloride	ND	0.100	mg/kg wet							
LCS (P0D0804-BS1)				Prepared: 04/08/20 Analyzed: 04/09/20						
Chloride	437	1.00	mg/kg wet	400		109	80-120			
LCS Dup (P0D0804-BSD1)				Prepared: 04/08/20 Analyzed: 04/09/20						
Chloride	431	1.00	mg/kg wet	400		108	80-120	1.59	20	
Calibration Blank (P0D0804-CCB1)				Prepared: 04/08/20 Analyzed: 04/09/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0D0804-CCB2)				Prepared: 04/08/20 Analyzed: 04/09/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0D0804-CCV1)				Prepared: 04/08/20 Analyzed: 04/09/20						
Chloride	21.8		mg/kg	20.0		109	0-200			
Calibration Check (P0D0804-CCV2)				Prepared: 04/08/20 Analyzed: 04/09/20						
Chloride	22.2		mg/kg	20.0		111	0-200			
Matrix Spike (P0D0804-MS1)				Source: 0D08001-01 Prepared: 04/08/20 Analyzed: 04/09/20						
Chloride	767	5.00	mg/kg dry	500	260	101	80-120			
Matrix Spike Dup (P0D0804-MSD1)				Source: 0D08001-01 Prepared: 04/08/20 Analyzed: 04/09/20						
Chloride	799	5.00	mg/kg dry	500	260	108	80-120	4.15	20	

Batch P0D0901 - * DEFAULT PREP *****

Blank (P0D0901-BLK1)				Prepared & Analyzed: 04/09/20						
% Moisture	ND	0.1	%							

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0D0901 - * DEFAULT PREP *****

Duplicate (P0D0901-DUP1)	Source: 0D08005-07		Prepared & Analyzed: 04/09/20							
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P0D0901-DUP2)	Source: 0D08005-28		Prepared & Analyzed: 04/09/20							
% Moisture	6.0	0.1	%		7.0			15.4	20	

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0D0803 - TX 1005

Blank (P0D0803-BLK1)

Prepared & Analyzed: 04/08/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	94.3		"	100		94.3	70-130			
Surrogate: o-Terphenyl	51.5		"	50.0		103	70-130			

LCS (P0D0803-BS1)

Prepared & Analyzed: 04/08/20

C6-C12	929	25.0	mg/kg wet	1000		92.9	75-125			
>C12-C28	1120	25.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		99.9	70-130			

LCS Dup (P0D0803-BSD1)

Prepared & Analyzed: 04/08/20

C6-C12	960	25.0	mg/kg wet	1000		96.0	75-125	3.29	20	
>C12-C28	1160	25.0	"	1000		116	75-125	3.72	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	51.0		"	50.0		102	70-130			

Calibration Blank (P0D0803-CCB1)

Prepared & Analyzed: 04/08/20

C6-C12	13.5		mg/kg wet							
>C12-C28	23.6		"							
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	55.8		"	50.0		112	70-130			

Calibration Blank (P0D0803-CCB2)

Prepared & Analyzed: 04/08/20

C6-C12	19.6		mg/kg wet							
>C12-C28	16.1		"							
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	61.6		"	50.0		123	70-130			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0D0803 - TX 1005

Calibration Check (P0D0803-CCV1)

Prepared & Analyzed: 04/08/20

C6-C12	552	25.0	mg/kg wet	500		110	85-115			
>C12-C28	546	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	55.3		"	50.0		111	70-130			

Calibration Check (P0D0803-CCV2)

Prepared & Analyzed: 04/08/20

C6-C12	534	25.0	mg/kg wet	500		107	85-115			
>C12-C28	561	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	56.5		"	50.0		113	70-130			

Matrix Spike (P0D0803-MS1)

Source: 0D08002-01

Prepared & Analyzed: 04/08/20

C6-C12	984	29.8	mg/kg dry	1190	18.2	81.2	75-125			
>C12-C28	1150	29.8	"	1190	25.3	94.8	75-125			
Surrogate: 1-Chlorooctane	115		"	119		96.5	70-130			
Surrogate: o-Terphenyl	49.5		"	59.5		83.1	70-130			

Matrix Spike Dup (P0D0803-MSD1)

Source: 0D08002-01

Prepared & Analyzed: 04/08/20

C6-C12	967	29.8	mg/kg dry	1190	18.2	79.7	75-125	1.86	20	
>C12-C28	1150	29.8	"	1190	25.3	94.4	75-125	0.435	20	
Surrogate: 1-Chlorooctane	117		"	119		98.4	70-130			
Surrogate: o-Terphenyl	49.2		"	59.5		82.6	70-130			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

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

Report Approved By:



Date:

4/9/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

Permian Basin Environmental Lab, L.P.

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PBBLAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Page 1 of 1


Project Manager: Curt Stanley

Company Name: TRC Environmental Corporation

Company Address: 10 Desta Drive, Ste 150E

City/State/Zip: Midland/TX/79703

Telephone No: (432) 620-7720

Sampler Signature: 

e-mail:

cdstanley@trcsolutions.com

clbryant@paalp.com
algroves@paalp.com

Fax No:

Report Format:

☒ Standard☐ TRRP☐ NPDES

PO #:

Project Name: COG - Screech Owl CTB

Project #: 2020-030

Project Loc: Eddy County, New Mexico

Page 18 of 18

ORDER #: 0D08002

(lab use only)

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix	TPH: 419.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300	Paint Filter	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	D1 @ 1'			4/7/2020	1010		1	X									Soil	X															X
2	D1 @ 2'			4/7/2020	1020		1	X									Soil																X
3	D2 @ 1'			4/7/2020	1040		1	X									Soil	X															X
4	D2 @ 2'			4/7/2020	1050		1	X									Soil																X
5	E @ 1'			4/7/2020	1120		1	X									Soil	X															X
6	S @ 1'			4/7/2020	1130		1	X									Soil	X															X
7	W @ 1'			4/7/2020	1150		1	X									Soil	X															X
8	N @ 1'			4/7/2020	1210		1	X									Soil	X															X

Special Instructions:

10 Rain

einkubated by:  Date: 4/8/20 Time: 9:11 Received by: einkubated by:  Date: 4/8/20 Time: 9:11 Received by: einkubated by:  Date: 4/8/20 Time: 9:11 Received by: einkubated by:  Date: 4/8/20 Time: 9:11 Received by: 

Laboratory Comments:

Sample Containers: Inadequate

VOOCs Free of Headspace?

Labels on containers?

Custody seals on containers?

Custody seals on cooler(s)?

Sample Hand Delivered

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 5.0 °C CFH

Adjusted: 6.0 °C Factor

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Location: Eddy County, NM
Lab Order Number: 0D13001



NELAP/TCEQ # T104704516-18-9

Report Date: 04/15/20

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E @ 14"	0D13001-01	Soil	04/09/20 12:15	04-13-2020 08:13

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

E @ 14"
0D13001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00115	mg/kg dry	1	P0D1302	04/13/20	04/13/20	EPA 8021B
Toluene	ND	0.00115	mg/kg dry	1	P0D1302	04/13/20	04/13/20	EPA 8021B
Ethylbenzene	ND	0.00115	mg/kg dry	1	P0D1302	04/13/20	04/13/20	EPA 8021B
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P0D1302	04/13/20	04/13/20	EPA 8021B
Xylene (o)	ND	0.00115	mg/kg dry	1	P0D1302	04/13/20	04/13/20	EPA 8021B
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0D1302	04/13/20	04/13/20	EPA 8021B
Surrogate: 1,4-Difluorobenzene		97.1 %	75-125		P0D1302	04/13/20	04/13/20	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	204	11.5	mg/kg dry	10	P0D1307	04/13/20	04/13/20	EPA 300.0
% Moisture	13.0	0.1	%	1	P0D1402	04/14/20	04/14/20	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0D1303	04/13/20	04/14/20	TPH 8015M
>C12-C28	197	28.7	mg/kg dry	1	P0D1303	04/13/20	04/14/20	TPH 8015M
>C28-C35	37.8	28.7	mg/kg dry	1	P0D1303	04/13/20	04/14/20	TPH 8015M
Surrogate: 1-Chlorooctane		96.0 %	70-130		P0D1303	04/13/20	04/14/20	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P0D1303	04/13/20	04/14/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	235	28.7	mg/kg dry	1	[CALC]	04/13/20	04/14/20	calc

Permian Basin Environmental Lab, L.P.

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Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0D1302 - General Preparation (GC)

Blank (P0D1302-BLK1)

Prepared & Analyzed: 04/13/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.8	75-125			

LCS (P0D1302-BS1)

Prepared & Analyzed: 04/13/20

Benzene	0.0943	0.00100	mg/kg wet	0.100		94.3	70-130			
Toluene	0.0971	0.00100	"	0.100		97.1	70-130			
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130			
Xylene (p/m)	0.210	0.00200	"	0.200		105	70-130			
Xylene (o)	0.106	0.00100	"	0.100		106	70-130			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.3	75-125			

LCS Dup (P0D1302-BSD1)

Prepared & Analyzed: 04/13/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130	6.24	20	
Toluene	0.105	0.00100	"	0.100		105	70-130	7.63	20	
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130	4.50	20	
Xylene (p/m)	0.225	0.00200	"	0.200		112	70-130	7.05	20	
Xylene (o)	0.109	0.00100	"	0.100		109	70-130	2.54	20	
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.0	75-125			

Calibration Blank (P0D1302-CCB1)

Prepared & Analyzed: 04/13/20

Benzene	0.00		mg/kg wet							
Toluene	0.650		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.460		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.5	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0D1302 - General Preparation (GC)

Calibration Blank (P0D1302-CCB2)

Prepared & Analyzed: 04/13/20

Benzene	0.00		mg/kg wet							
Toluene	0.790		"							
Ethylbenzene	0.460		"							
Xylene (p/m)	0.820		"							
Xylene (o)	0.320		"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.0	75-125			

Calibration Check (P0D1302-CCV1)

Prepared & Analyzed: 04/13/20

Benzene	0.0891	0.00100	mg/kg wet	0.100		89.1	80-120			
Toluene	0.0964	0.00100	"	0.100		96.4	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	75-125			

Calibration Check (P0D1302-CCV2)

Prepared & Analyzed: 04/13/20

Benzene	0.0920	0.00100	mg/kg wet	0.100		92.0	80-120			
Toluene	0.0997	0.00100	"	0.100		99.7	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.221	0.00200	"	0.200		111	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.1	75-125			

Calibration Check (P0D1302-CCV3)

Prepared & Analyzed: 04/13/20

Benzene	0.0918	0.00100	mg/kg wet	0.100		91.8	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.223	0.00200	"	0.200		112	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.7	75-125			

Permian Basin Environmental Lab, L.P.

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10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0D1302 - General Preparation (GC)

Matrix Spike (P0D1302-MS1)		Source: 0D13002-01		Prepared & Analyzed: 04/13/20						
Benzene	2.14	0.0204	mg/kg dry	2.04	ND	105	80-120			
Toluene	2.30	0.0204	"	2.04	0.172	104	80-120			
Ethylbenzene	2.14	0.0204	"	2.04	0.537	78.6	80-120			QM-07
Xylene (p/m)	4.38	0.0408	"	4.08	0.912	84.9	80-120			
Xylene (o)	2.17	0.0204	"	2.04	0.231	94.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.122		114	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.122		104	75-125			

Matrix Spike Dup (P0D1302-MSD1)		Source: 0D13002-01		Prepared & Analyzed: 04/13/20						
Benzene	2.08	0.0204	mg/kg dry	2.04	ND	102	80-120	2.61	20	
Toluene	2.26	0.0204	"	2.04	0.172	102	80-120	2.03	20	
Ethylbenzene	2.24	0.0204	"	2.04	0.537	83.6	80-120	6.09	20	
Xylene (p/m)	4.33	0.0408	"	4.08	0.912	83.7	80-120	1.44	20	
Xylene (o)	2.00	0.0204	"	2.04	0.231	86.8	80-120	8.97	20	
Surrogate: 4-Bromofluorobenzene	0.141		"	0.122		115	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.122		95.6	75-125			

Permian Basin Environmental Lab, L.P.

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Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0D1307 - * DEFAULT PREP *****

LCS (P0D1307-BS1)				Prepared & Analyzed: 04/13/20						
Chloride	402	1.00	mg/kg wet	400		100	80-120			
LCS Dup (P0D1307-BSD1)				Prepared & Analyzed: 04/13/20						
Chloride	399	1.00	mg/kg wet	400		99.8	80-120	0.577	20	
Calibration Blank (P0D1307-CCB1)				Prepared & Analyzed: 04/13/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0D1307-CCB2)				Prepared & Analyzed: 04/13/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0D1307-CCV1)				Prepared & Analyzed: 04/13/20						
Chloride	20.0		mg/kg	20.0		99.9	0-200			
Calibration Check (P0D1307-CCV2)				Prepared & Analyzed: 04/13/20						
Chloride	19.9		mg/kg	20.0		99.7	0-200			
Calibration Check (P0D1307-CCV3)				Prepared & Analyzed: 04/13/20						
Chloride	20.1		mg/kg	20.0		101	0-200			
Matrix Spike (P0D1307-MS1)				Source: 0D13001-01		Prepared & Analyzed: 04/13/20				
Chloride	1370	11.5	mg/kg dry	1150	204	102	80-120			
Matrix Spike (P0D1307-MS2)				Source: 0D13003-12		Prepared & Analyzed: 04/13/20				
Chloride	1190	5.68	mg/kg dry	568	553	113	80-120			
Matrix Spike Dup (P0D1307-MSD1)				Source: 0D13001-01		Prepared & Analyzed: 04/13/20				
Chloride	1450	11.5	mg/kg dry	1150	204	108	80-120	5.45	20	

Permian Basin Environmental Lab, L.P.

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Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0D1307 - * DEFAULT PREP *****

Matrix Spike Dup (P0D1307-MSD2)	Source: 0D13003-12			Prepared & Analyzed: 04/13/20						
Chloride	1230	5.68	mg/kg dry	568	553	119	80-120	2.91	20	

Batch P0D1402 - * DEFAULT PREP *****

Blank (P0D1402-BLK1)	Prepared & Analyzed: 04/14/20									
% Moisture	ND	0.1	%							

Duplicate (P0D1402-DUP1)	Source: 0D13003-12			Prepared & Analyzed: 04/14/20						
% Moisture	11.0	0.1	%		12.0			8.70	20	

Duplicate (P0D1402-DUP2)	Source: 0D13004-05			Prepared & Analyzed: 04/14/20						
% Moisture	4.0	0.1	%		4.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0D1303 - TX 1005

Blank (P0D1303-BLK1)

Prepared & Analyzed: 04/13/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	59.2		"	50.0		118	70-130			

LCS (P0D1303-BS1)

Prepared & Analyzed: 04/13/20

C6-C12	1010	25.0	mg/kg wet	1000		101	75-125			
>C12-C28	1030	25.0	"	1000		103	75-125			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	49.5		"	50.0		99.1	70-130			

LCS Dup (P0D1303-BSD1)

Prepared & Analyzed: 04/13/20

C6-C12	894	25.0	mg/kg wet	1000		89.4	75-125	11.9	20	
>C12-C28	891	25.0	"	1000		89.1	75-125	14.5	20	
Surrogate: 1-Chlorooctane	87.7		"	100		87.7	70-130			
Surrogate: o-Terphenyl	44.8		"	50.0		89.6	70-130			

Calibration Blank (P0D1303-CCB1)

Prepared & Analyzed: 04/13/20

C6-C12	10.6		mg/kg wet							
>C12-C28	23.4		"							
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	58.0		"	50.0		116	70-130			

Calibration Blank (P0D1303-CCB2)

Prepared: 04/13/20 Analyzed: 04/14/20

C6-C12	9.61		mg/kg wet							
>C12-C28	15.2		"							
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	58.9		"	50.0		118	70-130			

Permian Basin Environmental Lab, L.P.

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10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0D1303 - TX 1005

Calibration Check (P0D1303-CCV1)

Prepared & Analyzed: 04/13/20

C6-C12	496	25.0	mg/kg wet	500		99.1	85-115			
>C12-C28	496	25.0	"	500		99.3	85-115			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	54.2		"	50.0		108	70-130			

Calibration Check (P0D1303-CCV2)

Prepared: 04/13/20 Analyzed: 04/14/20

C6-C12	537	25.0	mg/kg wet	500		107	85-115			
>C12-C28	532	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	54.3		"	50.0		109	70-130			

Calibration Check (P0D1303-CCV3)

Prepared: 04/13/20 Analyzed: 04/14/20

C6-C12	494	25.0	mg/kg wet	500		98.9	85-115			
>C12-C28	506	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	50.8		"	50.0		102	70-130			

Matrix Spike (P0D1303-MS1)

Source: 0D09001-06

Prepared: 04/13/20 Analyzed: 04/14/20

C6-C12	847	25.8	mg/kg dry	1030	26.3	79.6	75-125			
>C12-C28	1020	25.8	"	1030	574	43.7	75-125			QM-07
Surrogate: 1-Chlorooctane	84.3		"	103		81.8	70-130			
Surrogate: o-Terphenyl	49.2		"	51.5		95.4	70-130			

Matrix Spike Dup (P0D1303-MSD1)

Source: 0D09001-06

Prepared: 04/13/20 Analyzed: 04/14/20

C6-C12	858	25.8	mg/kg dry	1030	26.3	80.7	75-125	1.31	20	
>C12-C28	1050	25.8	"	1030	574	46.5	75-125	6.34	20	QM-07
Surrogate: 1-Chlorooctane	94.9		"	103		92.0	70-130			
Surrogate: o-Terphenyl	45.1		"	51.5		87.5	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

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

Report Approved By:



Date: 4/15/2020

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.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Location: Eddy County, NM
Lab Order Number: 0F15007



NELAP/TCEQ # T104704516-17-8

Report Date: 06/29/20

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
F1 @ 1'	0F15007-01	Soil	06/11/20 13:00	06-15-2020 09:39
F2 @ 2.5'	0F15007-02	Soil	06/11/20 13:10	06-15-2020 09:39
F3 @ 1'	0F15007-03	Soil	06/11/20 13:20	06-15-2020 09:39
F4 @ 2'	0F15007-04	Soil	06/11/20 13:30	06-15-2020 09:39
F5 @ 1.5'	0F15007-05	Soil	06/11/20 13:40	06-15-2020 09:39
F6 @ 1'	0F15007-06	Soil	06/11/20 13:50	06-15-2020 09:39
F7 @ 6"	0F15007-07	Soil	06/11/20 14:00	06-15-2020 09:39
CNSW @ 6"	0F15007-08	Soil	06/11/20 14:10	06-15-2020 09:39
CSSW @ 1.5'	0F15007-09	Soil	06/11/20 14:15	06-15-2020 09:39
CWSW-1 @ 6"	0F15007-10	Soil	06/11/20 14:20	06-15-2020 09:39
CWSW-2 @ 1'	0F15007-11	Soil	06/11/20 14:30	06-15-2020 09:39
CESW-1 @ 1'	0F15007-12	Soil	06/11/20 14:35	06-15-2020 09:39
CESW-2 @ 1'	0F15007-13	Soil	06/11/20 14:37	06-15-2020 09:39
FP-1 SW	0F15007-14	Soil	06/11/20 14:45	06-15-2020 09:39
FP-2 SW	0F15007-15	Soil	06/11/20 14:50	06-15-2020 09:39
FP-3 SW	0F15007-16	Soil	06/11/20 14:55	06-15-2020 09:39
FP-4 SW	0F15007-17	Soil	06/11/20 15:00	06-15-2020 09:39

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

F1 @ 1'
0F15007-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B
Toluene	ND	0.00510	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B
Ethylbenzene	ND	0.00510	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B
Xylene (p/m)	ND	0.00510	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B
Xylene (o)	ND	0.00510	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B
Surrogate: 4-Bromofluorobenzene		92.3 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	127	1.02	mg/kg dry	1	P0F1704	06/17/20	06/18/20	EPA 300.0
% Moisture	2.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M
>C12-C28	767	25.5	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M
>C28-C35	119	25.5	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M
Surrogate: 1-Chlorooctane		84.9 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M
Surrogate: o-Terphenyl		94.7 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	886	25.5	mg/kg dry	1	[CALC]	06/16/20	06/16/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

F2 @ 2.5'
0F15007-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Toluene	ND	0.00532	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (p/m)	ND	0.00532	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (o)	ND	0.00532	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.9 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.3 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	261	5.32	mg/kg dry	5	P0F1704	06/17/20	06/18/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
>C12-C28	584	26.6	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
>C28-C35	93.9	26.6	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
Surrogate: 1-Chlorooctane		87.3 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M	
Surrogate: o-Terphenyl		96.8 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	678	26.6	mg/kg dry	1	[CALC]	06/16/20	06/16/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

F3 @ 1'
0F15007-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Toluene	ND	0.00505	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Ethylbenzene	ND	0.00505	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (p/m)	ND	0.00505	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (o)	ND	0.00505	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.4 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.4 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	58.6	1.01	mg/kg dry	1	P0F1704	06/17/20	06/18/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
>C12-C28	122	25.3	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
Surrogate: 1-Chlorooctane		88.0 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M	
Surrogate: o-Terphenyl		97.7 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	122	25.3	mg/kg dry	1	[CALC]	06/16/20	06/16/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

F4 @ 2'
0F15007-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Toluene	ND	0.00515	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Ethylbenzene	ND	0.00515	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (p/m)	ND	0.00515	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (o)	ND	0.00515	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.7 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.1 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	77.2	1.03	mg/kg dry	1	P0F1704	06/17/20	06/18/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
>C12-C28	395	25.8	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
>C28-C35	53.4	25.8	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.5 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M	
Surrogate: o-Terphenyl		92.7 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	448	25.8	mg/kg dry	1	[CALC]	06/16/20	06/16/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

F5 @ 1.5'
0F15007-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Toluene	ND	0.00521	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (p/m)	0.00716	0.00521	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (o)	ND	0.00521	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.1 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	43.4	1.04	mg/kg dry	1	P0F1704	06/17/20	06/18/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	112	26.0	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
>C12-C28	3860	26.0	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
>C28-C35	496	26.0	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.1 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M	
Surrogate: o-Terphenyl		98.1 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	4470	26.0	mg/kg dry	1	[CALC]	06/16/20	06/16/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

F6 @ 1'
0F15007-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Toluene	ND	0.00515	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Ethylbenzene	ND	0.00515	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (p/m)	ND	0.00515	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (o)	ND	0.00515	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.7 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.8 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	209	5.15	mg/kg dry	5	P0F1705	06/17/20	06/18/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
>C12-C28	384	25.8	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
>C28-C35	71.9	25.8	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.4 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	456	25.8	mg/kg dry	1	[CALC]	06/16/20	06/16/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

F7 @ 6"
0F15007-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.0125	0.00101	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Toluene	ND	0.00505	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Ethylbenzene	ND	0.00505	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (p/m)	0.00966	0.00505	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (o)	ND	0.00505	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.5 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.9 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	125	1.01	mg/kg dry	1	P0F1705	06/17/20	06/18/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
>C12-C28	541	25.3	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
>C28-C35	106	25.3	mg/kg dry	1	P0F1604	06/16/20	06/16/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.7 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M	
Surrogate: o-Terphenyl		93.7 %	70-130		P0F1604	06/16/20	06/16/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	646	25.3	mg/kg dry	1	[CALC]	06/16/20	06/16/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

CNSW @ 6"
0F15007-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Toluene	ND	0.00505	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Ethylbenzene	ND	0.00505	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (p/m)	0.0394	0.00505	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (o)	0.0161	0.00505	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.5 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		112 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	59.4	1.01	mg/kg dry	1	P0F1705	06/17/20	06/18/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	278	126	mg/kg dry	5	P0F1605	06/16/20	06/19/20	TPH 8015M	
>C12-C28	7800	126	mg/kg dry	5	P0F1605	06/16/20	06/19/20	TPH 8015M	
>C28-C35	892	126	mg/kg dry	5	P0F1605	06/16/20	06/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.4 %	70-130		P0F1605	06/16/20	06/19/20	TPH 8015M	
Surrogate: o-Terphenyl		92.0 %	70-130		P0F1605	06/16/20	06/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8970	126	mg/kg dry	5	[CALC]	06/16/20	06/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

CSSW @ 1.5'
0F15007-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Toluene	ND	0.00510	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Ethylbenzene	ND	0.00510	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (p/m)	0.0116	0.00510	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (o)	ND	0.00510	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.5 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	56.7	1.02	mg/kg dry	1	P0F1705	06/17/20	06/18/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	65.5	25.5	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C12-C28	2120	25.5	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C28-C35	311	25.5	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.1 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: o-Terphenyl		78.3 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2500	25.5	mg/kg dry	1	[CALC]	06/16/20	06/17/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

CWSW-1 @ 6"
0F15007-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Toluene	ND	0.00538	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Ethylbenzene	ND	0.00538	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (p/m)	ND	0.00538	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Xylene (o)	ND	0.00538	mg/kg dry	1	P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.8 %	75-125		P0F1504	06/15/20	06/15/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	524	10.8	mg/kg dry	10	P0F1705	06/17/20	06/18/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	50.6	26.9	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C12-C28	5080	26.9	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C28-C35	852	26.9	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.3 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	5980	26.9	mg/kg dry	1	[CALC]	06/16/20	06/17/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

CWSW-2 @ 1'
0F15007-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.00505	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.00505	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (p/m)	0.0110	0.00505	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (o)	ND	0.00505	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.3 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	32.9	1.01	mg/kg dry	1	P0F1705	06/17/20	06/18/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	259	25.3	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C12-C28	4780	25.3	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C28-C35	676	25.3	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	5720	25.3	mg/kg dry	1	[CALC]	06/16/20	06/17/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

CESW-1 @ 1'
0F15007-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Toluene	0.00524	0.00505	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.00505	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (p/m)	0.0280	0.00505	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (o)	0.00911	0.00505	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		82.7 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	17.8	1.01	mg/kg dry	1	P0F1705	06/17/20	06/18/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	294	126	mg/kg dry	5	P0F1605	06/16/20	06/19/20	TPH 8015M	
>C12-C28	8420	126	mg/kg dry	5	P0F1605	06/16/20	06/19/20	TPH 8015M	
>C28-C35	1000	126	mg/kg dry	5	P0F1605	06/16/20	06/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.6 %	70-130		P0F1605	06/16/20	06/19/20	TPH 8015M	
Surrogate: o-Terphenyl		71.5 %	70-130		P0F1605	06/16/20	06/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	9710	126	mg/kg dry	5	[CALC]	06/16/20	06/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

CESW-2 @ 1'
0F15007-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Toluene	ND	0.00515	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.00515	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (p/m)	0.0277	0.00515	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (o)	0.0107	0.00515	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.6 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	17.4	1.03	mg/kg dry	1	P0F1705	06/17/20	06/18/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	228	129	mg/kg dry	5	P0F1605	06/16/20	06/19/20	TPH 8015M	
>C12-C28	6320	129	mg/kg dry	5	P0F1605	06/16/20	06/19/20	TPH 8015M	
>C28-C35	773	129	mg/kg dry	5	P0F1605	06/16/20	06/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.1 %	70-130		P0F1605	06/16/20	06/19/20	TPH 8015M	
Surrogate: o-Terphenyl		71.6 %	70-130		P0F1605	06/16/20	06/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	7320	129	mg/kg dry	5	[CALC]	06/16/20	06/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

FP-1 SW
0F15007-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Toluene	0.0101	0.00505	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.00505	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (p/m)	0.00509	0.00505	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (o)	ND	0.00505	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.6 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.3 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	133	1.01	mg/kg dry	1	P0F1705	06/17/20	06/18/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C12-C28	621	25.3	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C28-C35	121	25.3	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: o-Terphenyl		80.6 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	742	25.3	mg/kg dry	1	[CALC]	06/16/20	06/17/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

FP-2 SW
0F15007-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.0127	0.00100	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Toluene	0.0124	0.00500	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.00500	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00500	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (o)	ND	0.00500	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.3 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	176	1.00	mg/kg dry	1	P0F1705	06/17/20	06/18/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C12-C28	1220	25.0	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C28-C35	241	25.0	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		87.2 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: o-Terphenyl		64.7 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	1460	25.0	mg/kg dry	1	[CALC]	06/16/20	06/17/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

FP-3 SW
0F15007-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.00428	0.00100	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Toluene	0.0397	0.00500	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	0.00647	0.00500	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (p/m)	0.0428	0.00500	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (o)	0.0166	0.00500	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		100 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		90.8 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	216	10.0	mg/kg dry	10	P0F1705	06/17/20	06/18/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C12-C28	710	25.0	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C28-C35	127	25.0	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		85.1 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		62.5 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	838	25.0	mg/kg dry	1	[CALC]	06/16/20	06/17/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

FP-4 SW
0F15007-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Toluene	0.00566	0.00521	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (p/m)	0.0286	0.00521	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Xylene (o)	0.0118	0.00521	mg/kg dry	1	P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.9 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		80.5 %	75-125		P0F1601	06/16/20	06/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	188	1.04	mg/kg dry	1	P0F1705	06/17/20	06/18/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	56.3	26.0	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C12-C28	2910	26.0	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
>C28-C35	586	26.0	mg/kg dry	1	P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.6 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	
Surrogate: o-Terphenyl		73.1 %	70-130		P0F1605	06/16/20	06/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3550	26.0	mg/kg dry	1	[CALC]	06/16/20	06/17/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0F1504 - General Preparation (GC)

Blank (P0F1504-BLK1)

Prepared & Analyzed: 06/15/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.1	75-125			

LCS (P0F1504-BS1)

Prepared & Analyzed: 06/15/20

Benzene	0.0969	0.00100	mg/kg wet	0.100		96.9	70-130			
Toluene	0.0977	0.00100	"	0.100		97.7	70-130			
Ethylbenzene	0.100	0.00100	"	0.100		100	70-130			
Xylene (p/m)	0.202	0.00200	"	0.200		101	70-130			
Xylene (o)	0.107	0.00100	"	0.100		107	70-130			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.7	75-125			

LCS Dup (P0F1504-BSD1)

Prepared & Analyzed: 06/15/20

Benzene	0.0888	0.00100	mg/kg wet	0.100		88.8	70-130	8.76	20	
Toluene	0.0926	0.00100	"	0.100		92.6	70-130	5.34	20	
Ethylbenzene	0.0987	0.00100	"	0.100		98.7	70-130	1.26	20	
Xylene (p/m)	0.188	0.00200	"	0.200		94.1	70-130	6.90	20	
Xylene (o)	0.101	0.00100	"	0.100		101	70-130	6.15	20	
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.4	75-125			

Calibration Blank (P0F1504-CCB1)

Prepared & Analyzed: 06/15/20

Benzene	0.00		mg/kg wet							
Toluene	0.690		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.430		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.5	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0F1504 - General Preparation (GC)

Calibration Blank (P0F1504-CCB2)

Prepared & Analyzed: 06/15/20

Benzene	0.00		mg/kg wet							
Toluene	0.430		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.640		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.8	75-125			

Calibration Check (P0F1504-CCV1)

Prepared & Analyzed: 06/15/20

Benzene	0.0882	0.00100	mg/kg wet	0.100		88.2	80-120			
Toluene	0.0899	0.00100	"	0.100		89.9	80-120			
Ethylbenzene	0.0911	0.00100	"	0.100		91.1	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.6	80-120			
Xylene (o)	0.0967	0.00100	"	0.100		96.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	75-125			

Calibration Check (P0F1504-CCV2)

Prepared & Analyzed: 06/15/20

Benzene	0.0928	0.00100	mg/kg wet	0.100		92.8	80-120			
Toluene	0.0907	0.00100	"	0.100		90.7	80-120			
Ethylbenzene	0.0919	0.00100	"	0.100		91.9	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.4	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.4	75-125			

Calibration Check (P0F1504-CCV3)

Prepared & Analyzed: 06/15/20

Benzene	0.0918	0.00100	mg/kg wet	0.100		91.8	80-120			
Toluene	0.0937	0.00100	"	0.100		93.7	80-120			
Ethylbenzene	0.0953	0.00100	"	0.100		95.3	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		91.8	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.1	75-125			

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Project Manager: Curt Stanley

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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
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Batch P0F1504 - General Preparation (GC)

Matrix Spike (P0F1504-MS1)		Source: 0F15005-01		Prepared & Analyzed: 06/15/20						
Benzene	0.0754	0.00103	mg/kg dry	0.103	ND	73.2	80-120			QM-05
Toluene	0.0739	0.00103	"	0.103	ND	71.6	80-120			QM-05
Ethylbenzene	0.0876	0.00103	"	0.103	ND	85.0	80-120			
Xylene (p/m)	0.147	0.00206	"	0.206	ND	71.5	80-120			QM-05
Xylene (o)	0.0773	0.00103	"	0.103	ND	75.0	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.110		"	0.124		89.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.124		96.5	75-125			

Matrix Spike Dup (P0F1504-MSD1)		Source: 0F15005-01		Prepared & Analyzed: 06/15/20						
Benzene	0.0771	0.00103	mg/kg dry	0.103	ND	74.8	80-120	2.18	20	QM-05
Toluene	0.0778	0.00103	"	0.103	ND	75.4	80-120	5.14	20	QM-05
Ethylbenzene	0.0910	0.00103	"	0.103	ND	88.3	80-120	3.77	20	
Xylene (p/m)	0.156	0.00206	"	0.206	ND	75.6	80-120	5.55	20	QM-05
Xylene (o)	0.0832	0.00103	"	0.103	ND	80.7	80-120	7.36	20	
Surrogate: 1,4-Difluorobenzene	0.120		"	0.124		97.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.124		90.8	75-125			

Batch P0F1601 - General Preparation (GC)

Blank (P0F1601-BLK1)		Prepared & Analyzed: 06/16/20								
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00500	"							
Xylene (o)	ND	0.00500	"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.3	75-125			

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Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0F1601 - General Preparation (GC)

LCS (P0F1601-BS1)		Prepared & Analyzed: 06/16/20								
Benzene	0.0903	0.00100	mg/kg wet	0.100		90.3	70-130			
Toluene	0.0941	0.00500	"	0.100		94.1	70-130			
Ethylbenzene	0.0978	0.00100	"	0.100		97.8	70-130			
Xylene (p/m)	0.193	0.00500	"	0.200		96.5	70-130			
Xylene (o)	0.103	0.00500	"	0.100		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.2	75-125			

LCS Dup (P0F1601-BSD1)		Prepared & Analyzed: 06/16/20								
Benzene	0.0952	0.00100	mg/kg wet	0.100		95.2	70-130	5.30	20	
Toluene	0.0996	0.00500	"	0.100		99.6	70-130	5.59	20	
Ethylbenzene	0.0962	0.00100	"	0.100		96.2	70-130	1.73	20	
Xylene (p/m)	0.203	0.00500	"	0.200		101	70-130	4.80	20	
Xylene (o)	0.109	0.00500	"	0.100		109	70-130	5.31	20	
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.8	75-125			

Calibration Blank (P0F1601-CCB1)		Prepared & Analyzed: 06/16/20								
Benzene	0.00		mg/kg wet							
Toluene	0.500		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.470		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.0	75-125			

Calibration Blank (P0F1601-CCB2)		Prepared & Analyzed: 06/16/20								
Benzene	0.00		mg/kg wet							
Toluene	0.540		"							
Ethylbenzene	0.410		"							
Xylene (p/m)	0.770		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.1	75-125			

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Fax: (432) 520-7701

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
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Batch P0F1601 - General Preparation (GC)

Calibration Blank (P0F1601-CCB3)			Prepared & Analyzed: 06/16/20							
Benzene	0.00		mg/kg wet							
Toluene	0.970		"							
Ethylbenzene	0.720		"							
Xylene (p/m)	1.98		"							
Xylene (o)	0.650		"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.4	75-125			

Calibration Check (P0F1601-CCV1)			Prepared & Analyzed: 06/16/20							
Benzene	0.0926	0.00100	mg/kg wet	0.100		92.6	80-120			
Toluene	0.0944	0.00500	"	0.100		94.4	80-120			
Ethylbenzene	0.0953	0.00100	"	0.100		95.3	80-120			
Xylene (p/m)	0.188	0.00500	"	0.200		93.9	80-120			
Xylene (o)	0.104	0.00500	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			

Calibration Check (P0F1601-CCV2)			Prepared & Analyzed: 06/16/20							
Benzene	0.0895	0.00100	mg/kg wet	0.100		89.5	80-120			
Toluene	0.0919	0.00500	"	0.100		91.9	80-120			
Ethylbenzene	0.0942	0.00100	"	0.100		94.2	80-120			
Xylene (p/m)	0.180	0.00500	"	0.200		90.2	80-120			
Xylene (o)	0.100	0.00500	"	0.100		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.7	75-125			

Calibration Check (P0F1601-CCV3)			Prepared & Analyzed: 06/16/20							
Benzene	0.0939	0.00100	mg/kg wet	0.100		93.9	80-120			
Toluene	0.103	0.00500	"	0.100		103	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.204	0.00500	"	0.200		102	80-120			
Xylene (o)	0.104	0.00500	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		97.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			

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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
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Batch P0F1601 - General Preparation (GC)

Matrix Spike (P0F1601-MS1)		Source: 0F09003-01		Prepared & Analyzed: 06/16/20						
Benzene	0.0744	0.00106	mg/kg dry	0.106	ND	69.9	80-120			QM-05
Toluene	0.0985	0.00532	"	0.106	0.00496	87.9	80-120			
Ethylbenzene	0.0981	0.00106	"	0.106	0.00163	90.6	80-120			
Xylene (p/m)	0.188	0.00532	"	0.213	0.00506	85.9	80-120			
Xylene (o)	0.132	0.00532	"	0.106	0.00129	123	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.0634		"	0.128		49.6	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.112		"	0.128		87.9	75-125			

Matrix Spike Dup (P0F1601-MSD1)		Source: 0F09003-01		Prepared & Analyzed: 06/16/20						
Benzene	0.0790	0.00106	mg/kg dry	0.106	ND	74.3	80-120	6.09	20	QM-05
Toluene	0.0929	0.00532	"	0.106	0.00496	82.7	80-120	6.17	20	
Ethylbenzene	0.102	0.00106	"	0.106	0.00163	94.7	80-120	4.40	20	
Xylene (p/m)	0.185	0.00532	"	0.213	0.00506	84.6	80-120	1.48	20	
Xylene (o)	0.109	0.00532	"	0.106	0.00129	102	80-120	19.3	20	
Surrogate: 1,4-Difluorobenzene	0.118		"	0.128		92.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.177		"	0.128		138	75-125			S-GC

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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
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Batch P0F1603 - * DEFAULT PREP *****

Blank (P0F1603-BLK1)		Prepared & Analyzed: 06/16/20								
% Moisture	ND	0.1	%							
Duplicate (P0F1603-DUP1)		Source: 0F15007-01		Prepared & Analyzed: 06/16/20						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0F1603-DUP2)		Source: 0F15007-17		Prepared & Analyzed: 06/16/20						
% Moisture	4.0	0.1	%		4.0			0.00	20	

Batch P0F1704 - * DEFAULT PREP *****

Blank (P0F1704-BLK1)		Prepared & Analyzed: 06/17/20								
Chloride	ND	1.00	mg/kg wet							
LCS (P0F1704-BS1)		Prepared & Analyzed: 06/17/20								
Chloride	391	1.00	mg/kg wet	400		97.7	80-120			
LCS Dup (P0F1704-BSD1)		Prepared & Analyzed: 06/17/20								
Chloride	389	1.00	mg/kg wet	400		97.1	80-120	0.590	20	
Calibration Blank (P0F1704-CCB1)		Prepared & Analyzed: 06/17/20								
Chloride	0.00		mg/kg wet							
Calibration Blank (P0F1704-CCB2)		Prepared: 06/17/20 Analyzed: 06/18/20								
Chloride	0.00		mg/kg wet							
Calibration Check (P0F1704-CCV1)		Prepared & Analyzed: 06/17/20								
Chloride	18.8		mg/kg	20.0		93.9	0-200			

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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
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Batch P0F1704 - * DEFAULT PREP *****

Calibration Check (P0F1704-CCV2)				Prepared & Analyzed: 06/17/20						
Chloride	20.1		mg/kg	20.0		100	0-200			
Matrix Spike (P0F1704-MS1)				Source: 0F12006-01 Prepared & Analyzed: 06/17/20						
Chloride	447	1.00	mg/kg dry	500	10.9	87.2	80-120			
Matrix Spike (P0F1704-MS2)				Source: 0F12007-17 Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	32200	56.2	mg/kg dry	2810	29700	87.3	80-120			
Matrix Spike Dup (P0F1704-MSD1)				Source: 0F12006-01 Prepared & Analyzed: 06/17/20						
Chloride	471	1.00	mg/kg dry	500	10.9	92.1	80-120	5.31	20	
Matrix Spike Dup (P0F1704-MSD2)				Source: 0F12007-17 Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	32200	56.2	mg/kg dry	2810	29700	87.7	80-120	0.0367	20	

Batch P0F1705 - * DEFAULT PREP *****

Blank (P0F1705-BLK1)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	ND	1.00	mg/kg wet							
LCS (P0F1705-BS1)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	409	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P0F1705-BSD1)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	417	1.00	mg/kg wet	400		104	80-120	2.03	20	
Calibration Blank (P0F1705-CCB1)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	0.00		mg/kg wet							

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Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F1705 - *** DEFAULT PREP ***										
Calibration Blank (P0F1705-CCB2)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0F1705-CCV1)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	19.5		mg/kg	20.0		97.7	0-200			
Calibration Check (P0F1705-CCV2)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	19.8		mg/kg	20.0		99.2	0-200			
Calibration Check (P0F1705-CCV3)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	19.0		mg/kg	20.0		95.2	0-200			
Matrix Spike (P0F1705-MS1)				Source: 0F15007-06		Prepared: 06/17/20 Analyzed: 06/18/20				
Chloride	822	5.15	mg/kg dry	515	209	119	80-120			
Matrix Spike (P0F1705-MS2)				Source: 0F15007-16		Prepared: 06/17/20 Analyzed: 06/18/20				
Chloride	1230	10.0	mg/kg dry	1000	216	102	80-120			
Matrix Spike Dup (P0F1705-MSD1)				Source: 0F15007-06		Prepared: 06/17/20 Analyzed: 06/18/20				
Chloride	768	5.15	mg/kg dry	515	209	109	80-120	6.81	20	
Matrix Spike Dup (P0F1705-MSD2)				Source: 0F15007-16		Prepared: 06/17/20 Analyzed: 06/18/20				
Chloride	1230	10.0	mg/kg dry	1000	216	101	80-120	0.430	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 28 of 36

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0F1604 - TX 1005

Blank (P0F1604-BLK1)

Prepared & Analyzed: 06/16/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	89.1		"	100		89.1	70-130			
Surrogate: o-Terphenyl	46.3		"	50.0		92.7	70-130			

LCS (P0F1604-BS1)

Prepared & Analyzed: 06/16/20

C6-C12	1120	25.0	mg/kg wet	1000		112	75-125			
>C12-C28	1210	25.0	"	1000		121	75-125			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	40.8		"	50.0		81.7	70-130			

LCS Dup (P0F1604-BSD1)

Prepared & Analyzed: 06/16/20

C6-C12	1160	25.0	mg/kg wet	1000		116	75-125	3.30	20	
>C12-C28	1210	25.0	"	1000		121	75-125	0.655	20	
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	41.4		"	50.0		82.8	70-130			

Calibration Blank (P0F1604-CCB1)

Prepared & Analyzed: 06/16/20

C6-C12	16.8		mg/kg wet							
>C12-C28	10.8		"							
Surrogate: 1-Chlorooctane	88.9		"	100		88.9	70-130			
Surrogate: o-Terphenyl	46.9		"	50.0		93.8	70-130			

Calibration Blank (P0F1604-CCB2)

Prepared & Analyzed: 06/16/20

C6-C12	12.6		mg/kg wet							
>C12-C28	12.0		"							
Surrogate: 1-Chlorooctane	83.8		"	100		83.8	70-130			
Surrogate: o-Terphenyl	43.7		"	50.0		87.4	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0F1604 - TX 1005

Calibration Check (P0F1604-CCV1)

Prepared & Analyzed: 06/16/20

C6-C12	502	25.0	mg/kg wet	500		100	85-115			
>C12-C28	547	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	46.6		"	50.0		93.3	70-130			

Calibration Check (P0F1604-CCV2)

Prepared & Analyzed: 06/16/20

C6-C12	537	25.0	mg/kg wet	500		107	85-115			
>C12-C28	562	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	88.6		"	100		88.6	70-130			
Surrogate: o-Terphenyl	41.2		"	50.0		82.4	70-130			

Matrix Spike (P0F1604-MS1)

Source: 0F15007-07

Prepared & Analyzed: 06/16/20

C6-C12	1170	25.3	mg/kg dry	1010	20.6	113	75-125			
>C12-C28	1230	25.3	"	1010	541	68.3	75-125			
Surrogate: 1-Chlorooctane	115		"	101		114	70-130			
Surrogate: o-Terphenyl	48.3		"	50.5		95.6	70-130			

Matrix Spike Dup (P0F1604-MSD1)

Source: 0F15007-07

Prepared: 06/16/20 Analyzed: 06/17/20

C6-C12	1160	25.3	mg/kg dry	1010	20.6	113	75-125	0.251	20	
>C12-C28	1240	25.3	"	1010	541	68.8	75-125	0.749	20	
Surrogate: 1-Chlorooctane	115		"	101		114	70-130			
Surrogate: o-Terphenyl	46.6		"	50.5		92.2	70-130			

Batch P0F1605 - TX 1005

Blank (P0F1605-BLK1)

Prepared: 06/16/20 Analyzed: 06/17/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	97.6		"	100		97.6	70-130			
Surrogate: o-Terphenyl	47.9		"	50.0		95.7	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0F1605 - TX 1005

LCS (P0F1605-BS1)

Prepared: 06/16/20 Analyzed: 06/17/20

C6-C12	979	25.0	mg/kg wet	1000		97.9	75-125			
>C12-C28	1180	25.0	"	1000		118	75-125			
Surrogate: 1-Chlorooctane	90.6		"	100		90.6	70-130			
Surrogate: o-Terphenyl	43.0		"	50.0		86.1	70-130			

LCS Dup (P0F1605-BSD1)

Prepared: 06/16/20 Analyzed: 06/17/20

C6-C12	994	25.0	mg/kg wet	1000		99.4	75-125	1.60	20	
>C12-C28	1110	25.0	"	1000		111	75-125	6.08	20	
Surrogate: 1-Chlorooctane	90.9		"	100		90.9	70-130			
Surrogate: o-Terphenyl	43.5		"	50.0		87.1	70-130			

Calibration Blank (P0F1605-CCB1)

Prepared: 06/16/20 Analyzed: 06/17/20

C6-C12	12.0		mg/kg wet							
>C12-C28	6.93		"							
Surrogate: 1-Chlorooctane	98.0		"	100		98.0	70-130			
Surrogate: o-Terphenyl	48.6		"	50.0		97.3	70-130			

Calibration Blank (P0F1605-CCB2)

Prepared: 06/16/20 Analyzed: 06/17/20

C6-C12	14.1		mg/kg wet							
>C12-C28	12.5		"							
Surrogate: 1-Chlorooctane	90.1		"	100		90.1	70-130			
Surrogate: o-Terphenyl	45.6		"	50.0		91.3	70-130			

Calibration Check (P0F1605-CCV1)

Prepared: 06/16/20 Analyzed: 06/17/20

C6-C12	486	25.0	mg/kg wet	500		97.2	85-115			
>C12-C28	547	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	95.6		"	100		95.6	70-130			
Surrogate: o-Terphenyl	46.7		"	50.0		93.4	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0F1605 - TX 1005

Calibration Check (P0F1605-CCV2)

Prepared: 06/16/20 Analyzed: 06/17/20

C6-C12	454	25.0	mg/kg wet	500		90.9	85-115			
>C12-C28	486	25.0	"	500		97.2	85-115			
Surrogate: 1-Chlorooctane	89.7		"	100		89.7	70-130			
Surrogate: o-Terphenyl	44.6		"	50.0		89.3	70-130			

Calibration Check (P0F1605-CCV3)

Prepared: 06/16/20 Analyzed: 06/17/20

C6-C12	490	25.0	mg/kg wet	500		97.9	85-115			
>C12-C28	533	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	94.3		"	100		94.3	70-130			
Surrogate: o-Terphenyl	47.3		"	50.0		94.6	70-130			

Matrix Spike (P0F1605-MS1)

Source: 0F15007-08

Prepared: 06/16/20 Analyzed: 06/19/20

C6-C12	1230	126	mg/kg dry	1010	278	94.4	75-125			
>C12-C28	9120	126	"	1010	7800	131	75-125			
Surrogate: 1-Chlorooctane	92.2		"	101		91.3	70-130			
Surrogate: o-Terphenyl	46.8		"	50.5		92.6	70-130			

Matrix Spike Dup (P0F1605-MSD1)

Source: 0F15007-08

Prepared: 06/16/20 Analyzed: 06/19/20

C6-C12	1220	126	mg/kg dry	1010	278	93.7	75-125	0.728	20	
>C12-C28	9020	126	"	1010	7800	121	75-125	7.81	20	
Surrogate: 1-Chlorooctane	91.8		"	101		90.9	70-130			
Surrogate: o-Terphenyl	46.5		"	50.5		92.1	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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.

BULK Samples received in Bulk soil containers

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

Report Approved By:



Date:

6/29/2020

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

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Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Permian Basin Environmental Lab, L.P.

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Location: Eddy County, NM
Lab Order Number: 0F18007



NELAP/TCEQ # T104704516-17-8

Report Date: 07/01/20

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
F8 @ 14"	0F18007-01	Soil	06/17/20 13:00	06-18-2020 15:34
OS-SW	0F18007-02	Soil	06/17/20 13:15	06-18-2020 15:34
T-WW-N	0F18007-03	Soil	06/17/20 14:00	06-18-2020 15:34
T-WW-S	0F18007-04	Soil	06/17/20 14:10	06-18-2020 15:34
T-BH-N @ 3'	0F18007-05	Soil	06/17/20 14:25	06-18-2020 15:34
T-BH-S @ 3'	0F18007-06	Soil	06/17/20 14:35	06-18-2020 15:34
T-EW-N	0F18007-07	Soil	06/17/20 14:50	06-18-2020 15:34
T-EW-S	0F18007-08	Soil	06/17/20 15:00	06-18-2020 15:34

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

F8 @ 14"
0F18007-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Toluene	ND	0.00543	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (p/m)	ND	0.00543	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (o)	ND	0.00543	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.4 %		75-125	P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.6 %		75-125	P0F1914	06/19/20	06/20/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	194	10.9	mg/kg dry	10	P0F2101	06/21/20	06/21/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0F1901	06/19/20	06/19/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0F1906	06/19/20	06/19/20	TPH 8015M	
>C12-C28	78.5	27.2	mg/kg dry	1	P0F1906	06/19/20	06/19/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0F1906	06/19/20	06/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %		70-130	P0F1906	06/19/20	06/19/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %		70-130	P0F1906	06/19/20	06/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	78.5	27.2	mg/kg dry	1	[CALC]	06/19/20	06/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

OS-SW
0F18007-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Toluene	ND	0.00538	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Ethylbenzene	ND	0.00538	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (p/m)	ND	0.00538	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (o)	ND	0.00538	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.3 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.4 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	331	10.8	mg/kg dry	10	P0F2101	06/21/20	06/21/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0F1901	06/19/20	06/19/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0F1906	06/19/20	06/19/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0F1906	06/19/20	06/19/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0F1906	06/19/20	06/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P0F1906	06/19/20	06/19/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0F1906	06/19/20	06/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	06/19/20	06/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

T-WW-N
0F18007-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Toluene	ND	0.00510	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Ethylbenzene	ND	0.00510	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (p/m)	ND	0.00510	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (o)	ND	0.00510	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.7 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	162	5.10	mg/kg dry	5	P0F2101	06/21/20	06/21/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0F1901	06/19/20	06/19/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	50.5	25.5	mg/kg dry	1	P0F1906	06/19/20	06/19/20	TPH 8015M	
>C12-C28	2060	25.5	mg/kg dry	1	P0F1906	06/19/20	06/19/20	TPH 8015M	
>C28-C35	305	25.5	mg/kg dry	1	P0F1906	06/19/20	06/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0F1906	06/19/20	06/19/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0F1906	06/19/20	06/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2410	25.5	mg/kg dry	1	[CALC]	06/19/20	06/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

T-WW-S
0F18007-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Toluene	ND	0.00505	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Ethylbenzene	ND	0.00505	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (p/m)	0.00533	0.00505	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (o)	ND	0.00505	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.6 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	87.2	1.01	mg/kg dry	1	P0F2101	06/21/20	06/21/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F1901	06/19/20	06/19/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	83.1	25.3	mg/kg dry	1	P0F1906	06/19/20	06/19/20	TPH 8015M	
>C12-C28	4370	25.3	mg/kg dry	1	P0F1906	06/19/20	06/19/20	TPH 8015M	
>C28-C35	632	25.3	mg/kg dry	1	P0F1906	06/19/20	06/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0F1906	06/19/20	06/19/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0F1906	06/19/20	06/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	5080	25.3	mg/kg dry	1	[CALC]	06/19/20	06/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

T-BH-N @ 3'
0F18007-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Toluene	ND	0.00532	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (p/m)	0.00957	0.00532	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (o)	ND	0.00532	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.7 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	229	5.32	mg/kg dry	5	P0F2101	06/21/20	06/21/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0F1901	06/19/20	06/19/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	275	133	mg/kg dry	5	P0F1906	06/19/20	06/22/20	TPH 8015M	
>C12-C28	8820	133	mg/kg dry	5	P0F1906	06/19/20	06/22/20	TPH 8015M	
>C28-C35	1600	133	mg/kg dry	5	P0F1906	06/19/20	06/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P0F1906	06/19/20	06/22/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0F1906	06/19/20	06/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	10700	133	mg/kg dry	5	[CALC]	06/19/20	06/22/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

T-BH-S @ 3'
0F18007-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Toluene	ND	0.00532	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (p/m)	0.00979	0.00532	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (o)	ND	0.00532	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.7 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	91.2	5.32	mg/kg dry	5	P0F2101	06/21/20	06/21/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0F1901	06/19/20	06/19/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	416	133	mg/kg dry	5	P0F1906	06/19/20	06/19/20	TPH 8015M	
>C12-C28	13100	133	mg/kg dry	5	P0F1906	06/19/20	06/19/20	TPH 8015M	
>C28-C35	1900	133	mg/kg dry	5	P0F1906	06/19/20	06/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P0F1906	06/19/20	06/19/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0F1906	06/19/20	06/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	15400	133	mg/kg dry	5	[CALC]	06/19/20	06/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

T-EW-N
0F18007-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Toluene	ND	0.00538	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Ethylbenzene	ND	0.00538	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (p/m)	0.0126	0.00538	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (o)	ND	0.00538	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.3 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	111	10.8	mg/kg dry	10	P0F2101	06/21/20	06/21/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0F1901	06/19/20	06/19/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	320	269	mg/kg dry	10	P0F1906	06/19/20	06/22/20	TPH 8015M	
>C12-C28	25500	269	mg/kg dry	10	P0F1906	06/19/20	06/22/20	TPH 8015M	
>C28-C35	5300	269	mg/kg dry	10	P0F1906	06/19/20	06/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0F1906	06/19/20	06/22/20	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P0F1906	06/19/20	06/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	31100	269	mg/kg dry	10	[CALC]	06/19/20	06/22/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

T-EW-S
0F18007-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Toluene	ND	0.00521	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (p/m)	ND	0.00521	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Xylene (o)	ND	0.00521	mg/kg dry	1	P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		116 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.4 %	75-125		P0F1914	06/19/20	06/20/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	89.0	10.4	mg/kg dry	10	P0F2101	06/21/20	06/21/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0F1901	06/19/20	06/19/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	260	mg/kg dry	10	P0F1906	06/19/20	06/22/20	TPH 8015M	
>C12-C28	16600	260	mg/kg dry	10	P0F1906	06/19/20	06/22/20	TPH 8015M	
>C28-C35	3650	260	mg/kg dry	10	P0F1906	06/19/20	06/22/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0F1906	06/19/20	06/22/20	TPH 8015M	
Surrogate: o-Terphenyl		99.2 %	70-130		P0F1906	06/19/20	06/22/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	20200	260	mg/kg dry	10	[CALC]	06/19/20	06/22/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0F1914 - General Preparation (GC)

Blank (P0F1914-BLK1)

Prepared: 06/19/20 Analyzed: 06/20/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.00500	"							
Xylene (o)	ND	0.00500	"							
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		84.7	75-125			

LCS (P0F1914-BS1)

Prepared: 06/19/20 Analyzed: 06/20/20

Benzene	0.0978	0.00100	mg/kg wet	0.100		97.8	70-130			
Toluene	0.0968	0.00500	"	0.100		96.8	70-130			
Ethylbenzene	0.0962	0.00500	"	0.100		96.2	70-130			
Xylene (p/m)	0.194	0.00500	"	0.200		97.2	70-130			
Xylene (o)	0.108	0.00500	"	0.100		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.5	75-125			

LCS Dup (P0F1914-BS1)

Prepared: 06/19/20 Analyzed: 06/20/20

Benzene	0.0948	0.00100	mg/kg wet	0.100		94.8	70-130	3.09	20	
Toluene	0.0951	0.00500	"	0.100		95.1	70-130	1.73	20	
Ethylbenzene	0.0994	0.00500	"	0.100		99.4	70-130	3.34	20	
Xylene (p/m)	0.189	0.00500	"	0.200		94.5	70-130	2.81	20	
Xylene (o)	0.104	0.00500	"	0.100		104	70-130	3.53	20	
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.8	75-125			

Calibration Check (P0F1914-CCV1)

Prepared: 06/19/20 Analyzed: 06/20/20

Benzene	0.0956	0.00100	mg/kg wet	0.100		95.6	80-120			
Toluene	0.0965	0.00500	"	0.100		96.5	80-120			
Ethylbenzene	0.100	0.00500	"	0.100		100	80-120			
Xylene (p/m)	0.188	0.00500	"	0.200		94.2	80-120			
Xylene (o)	0.105	0.00500	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.5	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0F1914 - General Preparation (GC)**Calibration Check (P0F1914-CCV2)**

Prepared: 06/19/20 Analyzed: 06/20/20

Benzene	0.0961	0.00100	mg/kg wet	0.100		96.1	80-120			
Toluene	0.0948	0.00500	"	0.100		94.8	80-120			
Ethylbenzene	0.0968	0.00500	"	0.100		96.8	80-120			
Xylene (p/m)	0.182	0.00500	"	0.200		91.1	80-120			
Xylene (o)	0.103	0.00500	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.1	75-125			

Calibration Check (P0F1914-CCV3)

Prepared: 06/19/20 Analyzed: 06/21/20

Benzene	0.0954	0.00100	mg/kg wet	0.100		95.4	80-120			
Toluene	0.0962	0.00500	"	0.100		96.2	80-120			
Ethylbenzene	0.0981	0.00500	"	0.100		98.1	80-120			
Xylene (p/m)	0.183	0.00500	"	0.200		91.6	80-120			
Xylene (o)	0.105	0.00500	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.4	75-125			

Matrix Spike (P0F1914-MS1)

Source: 0F18005-29

Prepared: 06/19/20 Analyzed: 06/20/20

Benzene	0.0846	0.00110	mg/kg dry	0.110	ND	77.0	80-120			QM-07
Toluene	0.0605	0.00549	"	0.110	0.000901	54.2	80-120			QM-07
Ethylbenzene	0.0496	0.00549	"	0.110	ND	45.1	80-120			QM-07
Xylene (p/m)	0.0538	0.00549	"	0.220	0.00152	23.8	80-120			QM-07
Xylene (o)	0.0703	0.00549	"	0.110	0.000747	63.3	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.130		"	0.132		98.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.132		90.5	75-125			

Matrix Spike Dup (P0F1914-MSD1)

Source: 0F18005-29

Prepared: 06/19/20 Analyzed: 06/20/20

Benzene	0.0865	0.00110	mg/kg dry	0.110	ND	78.7	80-120	2.25	20	QM-07
Toluene	0.0513	0.00549	"	0.110	0.000901	45.9	80-120	16.7	20	QM-07
Ethylbenzene	0.0440	0.00549	"	0.110	ND	40.0	80-120	12.0	20	QM-07
Xylene (p/m)	0.00977	0.00549	"	0.220	0.00152	3.76	80-120	145	20	QM-07
Xylene (o)	0.0731	0.00549	"	0.110	0.000747	65.9	80-120	4.01	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.129		"	0.132		98.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.132		89.1	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0F1901 - * DEFAULT PREP *****

Blank (P0F1901-BLK1)		Prepared & Analyzed: 06/19/20								
% Moisture	ND	0.1	%							
Duplicate (P0F1901-DUP1)		Source: 0F18005-08		Prepared & Analyzed: 06/19/20						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P0F1901-DUP2)		Source: 0F18005-35		Prepared & Analyzed: 06/19/20						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0F1901-DUP3)		Source: 0F18005-38		Prepared & Analyzed: 06/19/20						
% Moisture	ND	0.1	%		ND				20	

Batch P0F2101 - * DEFAULT PREP *****

Blank (P0F2101-BLK1)		Prepared & Analyzed: 06/21/20								
Chloride	ND	1.00	mg/kg wet							
LCS (P0F2101-BS1)		Prepared & Analyzed: 06/21/20								
Chloride	449	1.00	mg/kg wet	400		112	80-120			
LCS Dup (P0F2101-BSD1)		Prepared & Analyzed: 06/21/20								
Chloride	438	1.00	mg/kg wet	400		110	80-120	2.39	20	
Calibration Blank (P0F2101-CCB2)		Prepared & Analyzed: 06/21/20								
Chloride	0.00		mg/kg wet							
Calibration Check (P0F2101-CCV1)		Prepared & Analyzed: 06/21/20								
Chloride	21.0		mg/kg	20.0		105	0-200			

Permian Basin Environmental Lab, L.P.

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10 Desta Dr STE 150E
Midland TX, 79705

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Project Number: 2020-030
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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 P0F2101 - *** DEFAULT PREP ***										
Calibration Check (P0F2101-CCV2)				Prepared & Analyzed: 06/21/20						
Chloride	19.7		mg/kg	20.0		98.6	0-200			
Calibration Check (P0F2101-CCV3)				Prepared: 06/21/20 Analyzed: 06/22/20						
Chloride	24.2		mg/kg	20.0		121	0-200			
Matrix Spike (P0F2101-MS1)				Source: 0F19010-01		Prepared & Analyzed: 06/21/20				
Chloride	1520	1.14	mg/kg dry	568	1000	90.6	80-120			
Matrix Spike (P0F2101-MS2)				Source: 0F18007-08		Prepared & Analyzed: 06/21/20				
Chloride	1080	10.4	mg/kg dry	1040	89.0	95.5	80-120			
Matrix Spike Dup (P0F2101-MSD1)				Source: 0F19010-01		Prepared & Analyzed: 06/21/20				
Chloride	1400	1.14	mg/kg dry	568	1000	70.7	80-120	7.74	20	QM-05
Matrix Spike Dup (P0F2101-MSD2)				Source: 0F18007-08		Prepared & Analyzed: 06/21/20				
Chloride	1140	10.4	mg/kg dry	1040	89.0	101	80-120	5.37	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0F1906 - TX 1005

Blank (P0F1906-BLK1)

Prepared & Analyzed: 06/19/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	51.5		"	50.0		103	70-130			

LCS (P0F1906-BS1)

Prepared & Analyzed: 06/19/20

C6-C12	832	25.0	mg/kg wet	1000		83.2	75-125			
>C12-C28	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	86.3		"	100		86.3	70-130			
Surrogate: o-Terphenyl	42.1		"	50.0		84.1	70-130			

LCS Dup (P0F1906-BS1)

Prepared & Analyzed: 06/19/20

C6-C12	880	25.0	mg/kg wet	1000		88.0	75-125	5.55	20	
>C12-C28	1100	25.0	"	1000		110	75-125	4.24	20	
Surrogate: 1-Chlorooctane	90.1		"	100		90.1	70-130			
Surrogate: o-Terphenyl	43.7		"	50.0		87.4	70-130			

Calibration Blank (P0F1906-CCB1)

Prepared & Analyzed: 06/19/20

C6-C12	16.4		mg/kg wet							
>C12-C28	7.29		"							
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	52.3		"	50.0		105	70-130			

Calibration Blank (P0F1906-CCB2)

Prepared & Analyzed: 06/19/20

C6-C12	18.2		mg/kg wet							
>C12-C28	8.53		"							
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	55.6		"	50.0		111	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0F1906 - TX 1005

Calibration Check (P0F1906-CCV1)

Prepared & Analyzed: 06/19/20

C6-C12	435	25.0	mg/kg wet	500		87.1	85-115			
>C12-C28	515	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	100		"	100		100	70-130			
Surrogate: o-Terphenyl	49.8		"	50.0		99.5	70-130			

Calibration Check (P0F1906-CCV2)

Prepared & Analyzed: 06/19/20

C6-C12	457	25.0	mg/kg wet	500		91.5	85-115			
>C12-C28	537	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	51.8		"	50.0		104	70-130			

Matrix Spike (P0F1906-MS1)

Source: 0F18005-38

Prepared: 06/19/20 Analyzed: 06/20/20

C6-C12	964	25.0	mg/kg dry	1000	14.5	95.0	75-125			
>C12-C28	1160	25.0	"	1000	ND	116	75-125			
Surrogate: 1-Chlorooctane	96.4		"	100		96.4	70-130			
Surrogate: o-Terphenyl	44.3		"	50.0		88.7	70-130			

Matrix Spike Dup (P0F1906-MSD1)

Source: 0F18005-38

Prepared: 06/19/20 Analyzed: 06/20/20

C6-C12	982	25.0	mg/kg dry	1000	14.5	96.7	75-125	1.83	20	
>C12-C28	1200	25.0	"	1000	ND	120	75-125	3.11	20	
Surrogate: 1-Chlorooctane	97.4		"	100		97.4	70-130			
Surrogate: o-Terphenyl	45.2		"	50.0		90.4	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.

BULK Samples received in Bulk soil containers

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

Report Approved By:



Date:

7/1/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Permian Basin Environmental Lab, L.P.

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PBBLAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Page 1 of
Phone: 432-661-4184

Project Manager: Curt Stanley

Company Name: TRC Environmental Corporation

Company Address: 10 Desta Drive, Ste 150E

City/State/Zip: Midland/TX/79703

Telephone No: (432) 520-7720

Sampler Signature: *Curt Stanley*

Fax No:
e-mail: cdstanley@trcsolutions.com
clbrant@paalp.com
algroves@paalp.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: COG - Screech Owl CTB

Project #: 2020-030

Project Loc: Eddy County, New Mexico

PO #:

Page 19 of 19

ORDER #: 0618007

(lab use only)

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B 8030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300	Paint Filter	TCLP BTEX	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	F8 @ 14"			6/17/2020	1300		1	X									Soil	X															X
2	OS-SW			6/17/2020	1315		1	X									Soil	X															X
3	T-WW-N			6/17/2020	1400		1	X									Soil	X															X
4	T-WW-S			6/17/2020	1410		1	X									Soil	X															X
5	T-BH-N @ 3'			6/17/2020	1425		1	X									Soil	X															X
6	T-BH-S @ 3'			6/17/2020	1435		1	X									Soil	X															X
7	T-EW-N			6/17/2020	1450		1	X									Soil	X															X
8	T-EW-S			6/17/2020	1500		1	X									Soil	X															X

Special Instructions:

10 Ponds

Delivered by: *[Signature]* Date: 6/18/20 Time: 15:34

Received by: *[Signature]* Date: 6/18/20 Time: 15:34

Date: 6/18/20 Time: 15:34

Received by: *[Signature]* Date: 6/18/20 Time: 15:34

Delivered by: *[Signature]* Date: 6/18/20 Time: 15:34

Date: 6/18/20 Time: 15:34

Received by: *[Signature]* Date: 6/18/20 Time: 15:34

Laboratory Comments:

Sample Containers: Initial? ☒ VOCs Free of HeadSpace? ☒ Labels on container(s)? ☒ Custody seals on container(s)? ☒ Custody seals on cooler(s)? ☒ Sample Hand Delivered by Sampler/Client Rep? ☒ by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star

Temperature Upon Receipt: 29 °C CF 41

Adjusted: 29 °C Factor

Received by: *[Signature]* Date: 6/18/20 Time: 15:34

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: Plains- Screech Owl CTB
Project Number: SRS#2020-030
Location: Eddy County, NM
Lab Order Number: 0G01015



NELAP/TCEQ # T104704516-17-8

Report Date: 07/09/20

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Plains- Screech Owl CTB
Project Number: SRS#2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CWSW-1A @ 6"	0G01015-01	Soil	07/01/20 11:00	07-01-2020 16:16
CWSW-2A @ 1'	0G01015-02	Soil	07/01/20 11:10	07-01-2020 16:16
CSSW-A @ 1.5'	0G01015-03	Soil	07/01/20 11:20	07-01-2020 16:16
F9 @ 1'	0G01015-04	Soil	07/01/20 12:10	07-01-2020 16:16

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Plains- Screech Owl CTB
Project Number: SRS#2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

CWSW-1A @ 6"

0G01015-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	POG0605	07/06/20	07/06/20	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	POG0605	07/06/20	07/06/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	POG0605	07/06/20	07/06/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	POG0605	07/06/20	07/06/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	POG0605	07/06/20	07/06/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.3 %		75-125	POG0605	07/06/20	07/06/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.5 %		75-125	POG0605	07/06/20	07/06/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	59.5	1.04	mg/kg dry	1	POG0702	07/07/20	07/07/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	POG0202	07/02/20	07/02/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	POG0106	07/01/20	07/02/20	TPH 8015M	
>C12-C28	37.0	26.0	mg/kg dry	1	POG0106	07/01/20	07/02/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	POG0106	07/01/20	07/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.7 %		70-130	POG0106	07/01/20	07/02/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %		70-130	POG0106	07/01/20	07/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	37.0	26.0	mg/kg dry	1	[CALC]	07/01/20	07/02/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Plains- Screech Owl CTB
Project Number: SRS#2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

CWSW-2A @ 1'
0G01015-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.7 %	75-125		P0G0605	07/06/20	07/06/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.3 %	75-125		P0G0605	07/06/20	07/06/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	46.2	1.06	mg/kg dry	1	P0G0702	07/07/20	07/07/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0G0106	07/01/20	07/02/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0G0106	07/01/20	07/02/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0G0106	07/01/20	07/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0G0106	07/01/20	07/02/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P0G0106	07/01/20	07/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	07/01/20	07/02/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Plains- Screech Owl CTB
Project Number: SRS#2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

CSSW-A @ 1.5'
0G01015-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Toluene	ND	0.00217	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.2 %	75-125		P0G0605	07/06/20	07/06/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.8 %	75-125		P0G0605	07/06/20	07/06/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	26.9	1.09	mg/kg dry	1	P0G0702	07/07/20	07/07/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0G0106	07/01/20	07/02/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0G0106	07/01/20	07/02/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0G0106	07/01/20	07/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0G0106	07/01/20	07/02/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0G0106	07/01/20	07/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	07/01/20	07/02/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Plains- Screech Owl CTB
Project Number: SRS#2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

F9 @ 1'
0G01015-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0G0605	07/06/20	07/06/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.1 %	75-125		P0G0605	07/06/20	07/06/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.2 %	75-125		P0G0605	07/06/20	07/06/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	38.9	1.08	mg/kg dry	1	P0G0702	07/07/20	07/07/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0G0106	07/01/20	07/02/20	TPH 8015M	
>C12-C28	44.2	26.9	mg/kg dry	1	P0G0106	07/01/20	07/02/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0G0106	07/01/20	07/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.9 %	70-130		P0G0106	07/01/20	07/02/20	TPH 8015M	
Surrogate: o-Terphenyl		98.1 %	70-130		P0G0106	07/01/20	07/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	44.2	26.9	mg/kg dry	1	[CALC]	07/01/20	07/02/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Plains- Screech Owl CTB
Project Number: SRS#2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0605 - General Preparation (GC)

Blank (P0G0605-BLK1)

Prepared & Analyzed: 07/06/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.0	75-125			

LCS (P0G0605-BS1)

Prepared & Analyzed: 07/06/20

Benzene	0.0978	0.00100	mg/kg wet	0.100		97.8	70-130			
Toluene	0.0954	0.00200	"	0.100		95.4	70-130			
Ethylbenzene	0.0969	0.00100	"	0.100		96.9	70-130			
Xylene (p/m)	0.194	0.00200	"	0.200		96.8	70-130			
Xylene (o)	0.0979	0.00100	"	0.100		97.9	70-130			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.6	75-125			

LCS Dup (P0G0605-BSD1)

Prepared & Analyzed: 07/06/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130	4.94	20	
Toluene	0.102	0.00200	"	0.100		102	70-130	6.90	20	
Ethylbenzene	0.106	0.00100	"	0.100		106	70-130	8.74	20	
Xylene (p/m)	0.210	0.00200	"	0.200		105	70-130	7.97	20	
Xylene (o)	0.108	0.00100	"	0.100		108	70-130	10.0	20	
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.3	75-125			

Calibration Blank (P0G0605-CCB1)

Prepared & Analyzed: 07/06/20

Benzene	0.00		mg/kg wet							
Toluene	1.22		"							
Ethylbenzene	0.360		"							
Xylene (p/m)	0.650		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.100		"	0.120		83.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Plains- Screech Owl CTB
Project Number: SRS#2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0605 - General Preparation (GC)

Calibration Check (P0G0605-CCV1)

Prepared & Analyzed: 07/06/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.105	0.00200	"	0.100		105	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.210	0.00200	"	0.200		105	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	75-125			

Calibration Check (P0G0605-CCV2)

Prepared & Analyzed: 07/06/20

Benzene	0.0991	0.00100	mg/kg wet	0.100		99.1	80-120			
Toluene	0.0940	0.00200	"	0.100		94.0	80-120			
Ethylbenzene	0.0924	0.00100	"	0.100		92.4	80-120			
Xylene (p/m)	0.182	0.00200	"	0.200		91.0	80-120			
Xylene (o)	0.0979	0.00100	"	0.100		97.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.1	75-125			

Matrix Spike (P0G0605-MS1)

Source: 0G01015-01

Prepared & Analyzed: 07/06/20

Benzene	0.0735	0.00104	mg/kg dry	0.104	ND	70.6	80-120			QM-07
Toluene	0.0732	0.00208	"	0.104	ND	70.2	80-120			QM-07
Ethylbenzene	0.0781	0.00104	"	0.104	ND	74.9	80-120			QM-07
Xylene (p/m)	0.136	0.00208	"	0.208	0.00105	64.5	80-120			QM-07
Xylene (o)	0.0644	0.00104	"	0.104	ND	61.9	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.124		"	0.125		98.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.125		91.6	75-125			

Matrix Spike Dup (P0G0605-MSD1)

Source: 0G01015-01

Prepared & Analyzed: 07/06/20

Benzene	0.0950	0.00104	mg/kg dry	0.104	ND	91.2	80-120	25.5	20	QM-07
Toluene	0.0946	0.00208	"	0.104	ND	90.8	80-120	25.6	20	QM-07
Ethylbenzene	0.0946	0.00104	"	0.104	ND	90.8	80-120	19.1	20	
Xylene (p/m)	0.183	0.00208	"	0.208	0.00105	87.3	80-120	29.9	20	QM-07
Xylene (o)	0.0921	0.00104	"	0.104	ND	88.4	80-120	35.3	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.118		"	0.125		94.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.125		101	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Plains- Screech Owl CTB
Project Number: SRS#2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0202 - * DEFAULT PREP *****

Blank (P0G0202-BLK1)		Prepared & Analyzed: 07/02/20								
% Moisture	ND	0.1	%							
Blank (P0G0202-BLK2)		Prepared & Analyzed: 07/02/20								
% Moisture	ND	0.1	%							
Duplicate (P0G0202-DUP1)		Source: 0G01003-01		Prepared & Analyzed: 07/02/20						
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0G0202-DUP2)		Source: 0G01003-11		Prepared & Analyzed: 07/02/20						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P0G0202-DUP3)		Source: 0G01004-01		Prepared & Analyzed: 07/02/20						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0G0202-DUP4)		Source: 0G01009-05		Prepared & Analyzed: 07/02/20						
% Moisture	10.0	0.1	%		13.0			26.1	20	R
Duplicate (P0G0202-DUP5)		Source: 0G01011-01		Prepared & Analyzed: 07/02/20						
% Moisture	5.0	0.1	%		7.0			33.3	20	R
Duplicate (P0G0202-DUP6)		Source: 0G01011-11		Prepared & Analyzed: 07/02/20						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P0G0202-DUP7)		Source: 0G01012-11		Prepared & Analyzed: 07/02/20						
% Moisture	4.0	0.1	%		3.0			28.6	20	R
Duplicate (P0G0202-DUP8)		Source: 0G01013-06		Prepared & Analyzed: 07/02/20						
% Moisture	6.0	0.1	%		4.0			40.0	20	R

Permian Basin Environmental Lab, L.P.

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10 Desta Dr STE 150E
Midland TX, 79705

Project: Plains- Screech Owl CTB
Project Number: SRS#2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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 P0G0202 - *** DEFAULT PREP ***										
Duplicate (P0G0202-DUP9)	Source: 0G01013-14			Prepared & Analyzed: 07/02/20						
% Moisture	8.0	0.1	%		7.0			13.3	20	
Batch P0G0702 - *** DEFAULT PREP ***										
Blank (P0G0702-BLK1)	Prepared & Analyzed: 07/07/20									
Chloride	ND	1.00	mg/kg wet							
LCS (P0G0702-BS1)	Prepared & Analyzed: 07/07/20									
Chloride	397	1.00	mg/kg wet	400		99.2	80-120			
LCS Dup (P0G0702-BSD1)	Prepared & Analyzed: 07/07/20									
Chloride	397	1.00	mg/kg wet	400		99.2	80-120	0.0454	20	
Calibration Blank (P0G0702-CCB1)	Prepared & Analyzed: 07/07/20									
Chloride	0.00		mg/kg wet							
Calibration Check (P0G0702-CCV1)	Prepared & Analyzed: 07/07/20									
Chloride	18.8		mg/kg	20.0		94.1	0-200			
Calibration Check (P0G0702-CCV2)	Prepared & Analyzed: 07/07/20									
Chloride	18.9		mg/kg	20.0		94.4	0-200			
Calibration Check (P0G0702-CCV3)	Prepared: 07/07/20 Analyzed: 07/08/20									
Chloride	18.9		mg/kg	20.0		94.6	0-200			
Matrix Spike (P0G0702-MS1)	Source: 0G01013-08			Prepared & Analyzed: 07/07/20						
Chloride	561	1.14	mg/kg dry	568	29.2	93.6	80-120			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Plains- Screech Owl CTB
Project Number: SRS#2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0702 - * DEFAULT PREP *****

Matrix Spike (P0G0702-MS2)		Source: 0G02002-03			Prepared & Analyzed: 07/07/20					
Chloride	1680	1.11	mg/kg dry	778	824	110	80-120			
Matrix Spike Dup (P0G0702-MSD1)		Source: 0G01013-08			Prepared & Analyzed: 07/07/20					
Chloride	556	1.14	mg/kg dry	568	29.2	92.8	80-120	0.806	20	
Matrix Spike Dup (P0G0702-MSD2)		Source: 0G02002-03			Prepared & Analyzed: 07/07/20					
Chloride	1700	1.11	mg/kg dry	778	824	113	80-120	1.40	20	

Permian Basin Environmental Lab, L.P.

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Page 11 of 15

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Plains- Screech Owl CTB
Project Number: SRS#2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0106 - TX 1005

Blank (P0G0106-BLK1)

Prepared: 07/01/20 Analyzed: 07/02/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	99.5		"	100		99.5	70-130			
Surrogate: o-Terphenyl	47.9		"	50.0		95.8	70-130			

LCS (P0G0106-BS1)

Prepared: 07/01/20 Analyzed: 07/02/20

C6-C12	1130	25.0	mg/kg wet	1000		113	75-125			
>C12-C28	1200	25.0	"	1000		120	75-125			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	44.5		"	50.0		89.0	70-130			

LCS Dup (P0G0106-BSD1)

Prepared: 07/01/20 Analyzed: 07/02/20

C6-C12	1160	25.0	mg/kg wet	1000		116	75-125	2.83	20	
>C12-C28	1230	25.0	"	1000		123	75-125	2.54	20	
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	45.4		"	50.0		90.7	70-130			

Matrix Spike (P0G0106-MS1)

Source: 0G01003-25

Prepared: 07/01/20 Analyzed: 07/02/20

C6-C12	1160	27.5	mg/kg dry	1100	ND	105	75-125			
>C12-C28	1240	27.5	"	1100	ND	113	75-125			
Surrogate: 1-Chlorooctane	105		"	110		96.0	70-130			
Surrogate: o-Terphenyl	41.4		"	54.9		75.4	70-130			

Matrix Spike Dup (P0G0106-MSD1)

Source: 0G01003-25

Prepared: 07/01/20 Analyzed: 07/02/20

C6-C12	1140	27.5	mg/kg dry	1100	ND	104	75-125	1.36	20	
>C12-C28	1220	27.5	"	1100	ND	111	75-125	1.04	20	
Surrogate: 1-Chlorooctane	104		"	110		94.7	70-130			
Surrogate: o-Terphenyl	40.8		"	54.9		74.3	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Plains- Screech Owl CTB
Project Number: SRS#2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

ROI Received on Ice

R The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

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

Report Approved By:



Date:

7/9/2020

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.

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Midland TX, 79705

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701**

Phone: 432-686-7235

Project Manager:

Company Name

Company Address:

City/State/Zip:

Telephone No.:

Sampler Signature:

Fax No:

e-mail:

Report Format:

bandard

TRRP

☐ NPDES

Project Name

Project #

Project Loc

PO #:

Page 15 of 15

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Location: Eddy County, NM
Lab Order Number: 0G08022



NELAP/TCEQ # T104704516-17-8

Report Date: 07/15/20

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FP-4A SW @ 6"	0G08022-01	Soil	07/07/20 11:00	07-08-2020 13:00
FP-2A SW @ 3"	0G08022-02	Soil	07/07/20 11:20	07-08-2020 13:00
FP-5A @ 2.5'	0G08022-03	Soil	07/07/20 12:00	07-08-2020 13:00

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

FP-4A SW @ 6"

0G08022-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	POG0908	07/09/20	07/10/20	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	POG0908	07/09/20	07/10/20	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	POG0908	07/09/20	07/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	POG0908	07/09/20	07/10/20	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	POG0908	07/09/20	07/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		POG0908	07/09/20	07/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.1 %	75-125		POG0908	07/09/20	07/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	32.4	1.11	mg/kg dry	1	POG1202	07/12/20	07/14/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	POG0905	07/09/20	07/09/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	POG0903	07/09/20	07/09/20	TPH 8015M	
>C12-C28	74.5	27.8	mg/kg dry	1	POG0903	07/09/20	07/09/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	POG0903	07/09/20	07/09/20	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		POG0903	07/09/20	07/09/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		POG0903	07/09/20	07/09/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	74.5	27.8	mg/kg dry	1	[CALC]	07/09/20	07/09/20	calc	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

FP-2A SW @ 3"

0G08022-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00114	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.6 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.45	1.14	mg/kg dry	1	P0G1202	07/12/20	07/14/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0G0905	07/09/20	07/09/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0G0903	07/09/20	07/09/20	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P0G0903	07/09/20	07/09/20	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0G0903	07/09/20	07/09/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0G0903	07/09/20	07/09/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P0G0903	07/09/20	07/09/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	07/09/20	07/09/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

FP-5A @ 2.5'
0G08022-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (p/m)	0.00573	0.00208	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	23.9	1.04	mg/kg dry	1	P0G1202	07/12/20	07/13/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0G0905	07/09/20	07/09/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0G0903	07/09/20	07/09/20	TPH 8015M	
>C12-C28	635	26.0	mg/kg dry	1	P0G0903	07/09/20	07/09/20	TPH 8015M	
>C28-C35	82.9	26.0	mg/kg dry	1	P0G0903	07/09/20	07/09/20	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P0G0903	07/09/20	07/09/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P0G0903	07/09/20	07/09/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	718	26.0	mg/kg dry	1	[CALC]	07/09/20	07/09/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0908 - General Preparation (GC)

Blank (P0G0908-BLK1)

Prepared & Analyzed: 07/09/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			

LCS (P0G0908-BS1)

Prepared & Analyzed: 07/09/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130			
Toluene	0.0982	0.00100	"	0.100		98.2	70-130			
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130			
Xylene (p/m)	0.215	0.00200	"	0.200		108	70-130			
Xylene (o)	0.104	0.00100	"	0.100		104	70-130			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.6	75-125			

LCS Dup (P0G0908-BSD1)

Prepared & Analyzed: 07/09/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	70-130	5.83	20	
Toluene	0.105	0.00100	"	0.100		105	70-130	6.65	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130	2.53	20	
Xylene (p/m)	0.228	0.00200	"	0.200		114	70-130	5.81	20	
Xylene (o)	0.112	0.00100	"	0.100		112	70-130	7.53	20	
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			

Calibration Blank (P0G0908-CCB1)

Prepared & Analyzed: 07/09/20

Benzene	0.00		mg/kg wet							
Toluene	0.730		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.310		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.3	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0908 - General Preparation (GC)

Calibration Blank (P0G0908-CCB2)

Prepared & Analyzed: 07/09/20

Benzene	0.00		mg/kg wet							
Toluene	0.960		"							
Ethylbenzene	0.490		"							
Xylene (p/m)	1.23		"							
Xylene (o)	0.380		"							
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		109	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.3	75-125			

Calibration Blank (P0G0908-CCB3)

Prepared & Analyzed: 07/09/20

Benzene	0.00		mg/kg wet							
Toluene	0.950		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.440		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		87.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	75-125			

Calibration Check (P0G0908-CCV1)

Prepared & Analyzed: 07/09/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.0930	0.00100	"	0.100		93.0	80-120			
Ethylbenzene	0.0963	0.00100	"	0.100		96.3	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.2	80-120			
Xylene (o)	0.0989	0.00100	"	0.100		98.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.7	75-125			

Calibration Check (P0G0908-CCV2)

Prepared & Analyzed: 07/09/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.213	0.00200	"	0.200		106	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0908 - General Preparation (GC)

Calibration Check (P0G0908-CCV3)

Prepared & Analyzed: 07/09/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.0996	0.00100	"	0.100		99.6	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	75-125			

Matrix Spike (P0G0908-MS1)

Source: 0G08013-01

Prepared & Analyzed: 07/09/20

Benzene	0.0782	0.00102	mg/kg dry	0.102	ND	76.6	80-120			QM-07
Toluene	0.0753	0.00102	"	0.102	ND	73.8	80-120			QM-07
Ethylbenzene	0.0958	0.00102	"	0.102	ND	93.9	80-120			
Xylene (p/m)	0.164	0.00204	"	0.204	0.00119	79.8	80-120			QM-07
Xylene (o)	0.0781	0.00102	"	0.102	0.000510	76.0	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.132		"	0.122		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.122		98.8	75-125			

Matrix Spike Dup (P0G0908-MSD1)

Source: 0G08013-01

Prepared & Analyzed: 07/09/20

Benzene	0.0923	0.00102	mg/kg dry	0.102	ND	90.5	80-120	16.6	20	
Toluene	0.0836	0.00102	"	0.102	ND	82.0	80-120	10.4	20	
Ethylbenzene	0.105	0.00102	"	0.102	ND	103	80-120	9.31	20	
Xylene (p/m)	0.179	0.00204	"	0.204	0.00119	87.0	80-120	8.72	20	
Xylene (o)	0.0880	0.00102	"	0.102	0.000510	85.7	80-120	12.0	20	
Surrogate: 1,4-Difluorobenzene	0.122		"	0.122		99.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.122		104	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0905 - * DEFAULT PREP *****

Blank (P0G0905-BLK1)	Prepared & Analyzed: 07/09/20									
% Moisture	ND	0.1	%							
Blank (P0G0905-BLK2)	Prepared & Analyzed: 07/09/20									
% Moisture	ND	0.1	%							
Duplicate (P0G0905-DUP1)	Source: 0G08002-03		Prepared & Analyzed: 07/09/20							
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0G0905-DUP2)	Source: 0G08004-05		Prepared & Analyzed: 07/09/20							
% Moisture	15.0	0.1	%		14.0			6.90	20	
Duplicate (P0G0905-DUP3)	Source: 0G08007-07		Prepared & Analyzed: 07/09/20							
% Moisture	13.0	0.1	%		12.0			8.00	20	
Duplicate (P0G0905-DUP4)	Source: 0G08008-09		Prepared & Analyzed: 07/09/20							
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0G0905-DUP5)	Source: 0G08008-24		Prepared & Analyzed: 07/09/20							
% Moisture	1.0	0.1	%		2.0			66.7	20	
Duplicate (P0G0905-DUP6)	Source: 0G08008-34		Prepared & Analyzed: 07/09/20							
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0G0905-DUP7)	Source: 0G08009-10		Prepared & Analyzed: 07/09/20							
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P0G0905-DUP8)	Source: 0G08009-20		Prepared & Analyzed: 07/09/20							
% Moisture	9.0	0.1	%		9.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79705

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Project Number: 2020-030
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Fax: (432) 520-7701

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
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Batch P0G0905 - * DEFAULT PREP *****

Duplicate (P0G0905-DUP9)	Source: 0G08009-35		Prepared & Analyzed: 07/09/20							
% Moisture	8.0	0.1	%		7.0			13.3	20	
Duplicate (P0G0905-DUPA)	Source: 0G08011-03		Prepared & Analyzed: 07/09/20							
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0G0905-DUPB)	Source: 0G08018-01		Prepared & Analyzed: 07/09/20							
% Moisture	6.0	0.1	%		5.0			18.2	20	
Duplicate (P0G0905-DUPC)	Source: 0G08022-02		Prepared & Analyzed: 07/09/20							
% Moisture	13.0	0.1	%		12.0			8.00	20	

Batch P0G1202 - * DEFAULT PREP *****

LCS (P0G1202-BS1)	Prepared & Analyzed: 07/12/20									
Chloride	411	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P0G1202-BSD1)	Prepared & Analyzed: 07/12/20									
Chloride	408	1.00	mg/kg wet	400		102	80-120	0.676	20	
Calibration Check (P0G1202-CCV1)	Prepared & Analyzed: 07/12/20									
Chloride	19.4		mg/kg	20.0		96.8	0-200			
Calibration Check (P0G1202-CCV2)	Prepared: 07/12/20 Analyzed: 07/13/20									
Chloride	19.5		mg/kg	20.0		97.4	0-200			
Calibration Check (P0G1202-CCV3)	Prepared: 07/12/20 Analyzed: 07/13/20									
Chloride	19.7		mg/kg	20.0		98.5	0-200			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G1202 - * DEFAULT PREP *****

Matrix Spike (P0G1202-MS1)		Source: 0G08009-40			Prepared & Analyzed: 07/12/20					
Chloride	3150	5.15	mg/kg dry	515	2610	106	80-120			
Matrix Spike (P0G1202-MS2)		Source: 0G08022-02			Prepared: 07/12/20 Analyzed: 07/14/20					
Chloride	587	1.14	mg/kg dry	568	8.45	102	80-120			
Matrix Spike Dup (P0G1202-MSD1)		Source: 0G08009-40			Prepared & Analyzed: 07/12/20					
Chloride	3140	5.15	mg/kg dry	515	2610	102	80-120	0.559	20	
Matrix Spike Dup (P0G1202-MSD2)		Source: 0G08022-02			Prepared: 07/12/20 Analyzed: 07/14/20					
Chloride	554	1.14	mg/kg dry	568	8.45	96.1	80-120	5.73	20	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0903 - TX 1005

Blank (P0G0903-BLK1)

Prepared & Analyzed: 07/09/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	58.6		"	50.0		117	70-130			

LCS (P0G0903-BS1)

Prepared & Analyzed: 07/09/20

C6-C12	955	25.0	mg/kg wet	1000		95.5	75-125			
>C12-C28	1200	25.0	"	1000		120	75-125			
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	54.0		"	50.0		108	70-130			

LCS Dup (P0G0903-BSD1)

Prepared & Analyzed: 07/09/20

C6-C12	956	25.0	mg/kg wet	1000		95.6	75-125	0.144	20	
>C12-C28	1190	25.0	"	1000		119	75-125	0.730	20	
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	53.2		"	50.0		106	70-130			

Calibration Check (P0G0903-CCV1)

Prepared & Analyzed: 07/09/20

C6-C12	517	25.0	mg/kg wet	500		103	85-115			
>C12-C28	566	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	54.1		"	50.0		108	70-130			

Calibration Check (P0G0903-CCV2)

Prepared & Analyzed: 07/09/20

C6-C12	545	25.0	mg/kg wet	500		109	85-115			
>C12-C28	548	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	88.1		"	100		88.1	70-130			
Surrogate: o-Terphenyl	56.0		"	50.0		112	70-130			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0903 - TX 1005

Calibration Check (P0G0903-CCV3)

Prepared: 07/09/20 Analyzed: 07/10/20

C6-C12	542	25.0	mg/kg wet	500		108	85-115			
>C12-C28	560	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	57.6		"	50.0		115	70-130			

Matrix Spike (P0G0903-MS1)

Source: 0G08022-01

Prepared: 07/09/20 Analyzed: 07/10/20

C6-C12	1730	27.8	mg/kg dry	1110	17.3	154	75-125			QM-05
>C12-C28	2040	27.8	"	1110	74.5	177	75-125			QM-05
Surrogate: 1-Chlorooctane	125		"	111		113	70-130			
Surrogate: o-Terphenyl	59.5		"	55.6		107	70-130			

Matrix Spike Dup (P0G0903-MSD1)

Source: 0G08022-01

Prepared: 07/09/20 Analyzed: 07/10/20

C6-C12	1720	27.8	mg/kg dry	1110	17.3	153	75-125	0.354	20	QM-05
>C12-C28	1990	27.8	"	1110	74.5	172	75-125	2.91	20	QM-05
Surrogate: 1-Chlorooctane	122		"	111		110	70-130			
Surrogate: o-Terphenyl	58.7		"	55.6		106	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.

BULK Samples received in Bulk soil containers

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

Report Approved By:



Date:

7/15/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Location: Eddy County, NM
Lab Order Number: 0G09009



NELAP/TCEQ # T104704516-17-8

Report Date: 07/15/20

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CNSW-A @ 6"	0G09009-01	Soil	07/08/20 09:10	07-09-2020 14:35

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

CNSW-A @ 6"
0G09009-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (p/m)	0.00246	0.00202	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		112 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	33.5	1.01	mg/kg dry	1	P0G1306	07/13/20	07/14/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	209	126	mg/kg dry	5	P0G1005	07/10/20	07/13/20	TPH 8015M	
>C12-C28	9000	126	mg/kg dry	5	P0G1005	07/10/20	07/13/20	TPH 8015M	
>C28-C35	1500	126	mg/kg dry	5	P0G1005	07/10/20	07/13/20	TPH 8015M	
Surrogate: 1-Chlorooctane		124 %	70-130		P0G1005	07/10/20	07/13/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0G1005	07/10/20	07/13/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	10700	126	mg/kg dry	5	[CALC]	07/10/20	07/13/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0909 - General Preparation (GC)

Blank (P0G0909-BLK1)

Prepared: 07/09/20 Analyzed: 07/10/20

Benzene	ND	0.00100	mg/kg wet							
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		99.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.2	75-125			

LCS (P0G0909-BS1)

Prepared & Analyzed: 07/09/20

Benzene	0.0938	0.00100	mg/kg wet	0.100		93.8	70-130			
Toluene	0.0918	0.00100	"	0.100		91.8	70-130			
Ethylbenzene	0.0992	0.00100	"	0.100		99.2	70-130			
Xylene (p/m)	0.195	0.00200	"	0.200		97.4	70-130			
Xylene (o)	0.0942	0.00100	"	0.100		94.2	70-130			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		98.8	75-125			

LCS Dup (P0G0909-BSD1)

Prepared & Analyzed: 07/09/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130	10.3	20	
Toluene	0.0968	0.00100	"	0.100		96.8	70-130	5.33	20	
Ethylbenzene	0.100	0.00100	"	0.100		100	70-130	1.15	20	
Xylene (p/m)	0.204	0.00200	"	0.200		102	70-130	4.74	20	
Xylene (o)	0.102	0.00100	"	0.100		102	70-130	8.03	20	
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.3	75-125			

Calibration Blank (P0G0909-CCB1)

Prepared & Analyzed: 07/09/20

Benzene	0.00		mg/kg wet							
Toluene	0.950		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.440		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		87.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	75-125			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0909 - General Preparation (GC)

Calibration Blank (P0G0909-CCB2)

Prepared: 07/09/20 Analyzed: 07/10/20

Benzene	0.00		mg/kg wet							
Toluene	0.490		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.400		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		89.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.103		"	0.120		86.0	75-125			

Calibration Check (P0G0909-CCV1)

Prepared & Analyzed: 07/09/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.0996	0.00100	"	0.100		99.6	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.1	75-125			

Calibration Check (P0G0909-CCV2)

Prepared: 07/09/20 Analyzed: 07/10/20

Benzene	0.112	0.00100	mg/kg wet	0.100		112	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.213	0.00200	"	0.200		106	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.7	75-125			

Matrix Spike (P0G0909-MS1)

Source: 0G09002-09

Prepared: 07/09/20 Analyzed: 07/10/20

Benzene	0.0788	0.00102	mg/kg dry	0.102	ND	77.2	80-120			QM-07
Toluene	0.0534	0.00102	"	0.102	0.00300	49.4	80-120			QM-07
Ethylbenzene	0.0445	0.00102	"	0.102	ND	43.6	80-120			QM-07
Xylene (p/m)	0.0710	0.00204	"	0.204	ND	34.8	80-120			QM-07
Xylene (o)	0.0294	0.00102	"	0.102	ND	28.9	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.123		"	0.122		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.122		94.9	75-125			

Permian Basin Environmental Lab, L.P.

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Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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
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Batch P0G0909 - General Preparation (GC)

Matrix Spike Dup (P0G0909-MSD1)	Source: 0G09002-09			Prepared: 07/09/20		Analyzed: 07/10/20				
Benzene	0.0784	0.00102	mg/kg dry	0.102	ND	76.8	80-120	0.467	20	QM-07
Toluene	0.0497	0.00102	"	0.102	0.00300	45.8	80-120	7.46	20	QM-07
Ethylbenzene	0.0397	0.00102	"	0.102	ND	38.9	80-120	11.4	20	QM-07
Xylene (p/m)	0.0628	0.00204	"	0.204	ND	30.8	80-120	12.2	20	QM-07
Xylene (o)	0.0271	0.00102	"	0.102	ND	26.6	80-120	8.19	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.125		"	0.122		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.122		89.6	75-125			

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Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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 P0G1007 - *** DEFAULT PREP ***										
Blank (P0G1007-BLK1)	Prepared & Analyzed: 07/10/20									
% Moisture	ND	0.1	%							
Blank (P0G1007-BLK2)	Prepared & Analyzed: 07/10/20									
% Moisture	ND	0.1	%							
Blank (P0G1007-BLK3)	Prepared & Analyzed: 07/10/20									
% Moisture	ND	0.1	%							
Blank (P0G1007-BLK4)	Prepared & Analyzed: 07/10/20									
% Moisture	ND	0.1	%							
Duplicate (P0G1007-DUP1)	Source: 0G08026-10			Prepared & Analyzed: 07/10/20						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P0G1007-DUP2)	Source: 0G08027-08			Prepared & Analyzed: 07/10/20						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P0G1007-DUP3)	Source: 0G09002-15			Prepared & Analyzed: 07/10/20						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P0G1007-DUP7)	Source: 0G09010-08			Prepared & Analyzed: 07/10/20						
% Moisture	13.0	0.1	%		13.0			0.00	20	
Batch P0G1306 - *** DEFAULT PREP ***										
LCS (P0G1306-BS1)	Prepared: 07/13/20 Analyzed: 07/14/20									
Chloride	399	1.00	mg/kg wet	400		99.9	80-120			

Permian Basin Environmental Lab, L.P.

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Project Manager: Curt Stanley

Fax: (432) 520-7701

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 P0G1306 - *** DEFAULT PREP ***										
LCS Dup (P0G1306-BSD1)				Prepared: 07/13/20 Analyzed: 07/14/20						
Chloride	397	1.00	mg/kg wet	400		99.2	80-120	0.678	20	
Calibration Check (P0G1306-CCV1)				Prepared: 07/13/20 Analyzed: 07/14/20						
Chloride	19.1		mg/kg	20.0		95.7	0-200			
Calibration Check (P0G1306-CCV2)				Prepared: 07/13/20 Analyzed: 07/14/20						
Chloride	20.0		mg/kg	20.0		100	0-200			
Calibration Check (P0G1306-CCV3)				Prepared: 07/13/20 Analyzed: 07/14/20						
Chloride	20.0		mg/kg	20.0		100	0-200			
Matrix Spike (P0G1306-MS1)				Source: 0G13003-21 Prepared: 07/13/20 Analyzed: 07/14/20						
Chloride	11000	11.0	mg/kg dry	1100	9800	105	80-120			
Matrix Spike (P0G1306-MS2)				Source: 0G09004-05 Prepared: 07/13/20 Analyzed: 07/14/20						
Chloride	586	1.08	mg/kg dry	538	36.0	102	80-120			
Matrix Spike Dup (P0G1306-MSD1)				Source: 0G13003-21 Prepared: 07/13/20 Analyzed: 07/14/20						
Chloride	11000	11.0	mg/kg dry	1100	9800	110	80-120	0.482	20	
Matrix Spike Dup (P0G1306-MSD2)				Source: 0G09004-05 Prepared: 07/13/20 Analyzed: 07/14/20						
Chloride	883	1.08	mg/kg dry	538	36.0	158	80-120	40.4	20	QM-05

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Project Manager: Curt Stanley

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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
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Batch P0G1005 - TX 1005

Blank (P0G1005-BLK1)

Prepared: 07/10/20 Analyzed: 07/12/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	55.6		"	50.0		111	70-130			

LCS (P0G1005-BS1)

Prepared: 07/10/20 Analyzed: 07/12/20

C6-C12	998	25.0	mg/kg wet	1000		99.8	75-125			
>C12-C28	1220	25.0	"	1000		122	75-125			
Surrogate: 1-Chlorooctane	129		"	100		129	70-130			
Surrogate: o-Terphenyl	56.1		"	50.0		112	70-130			

LCS Dup (P0G1005-BSD1)

Prepared: 07/10/20 Analyzed: 07/12/20

C6-C12	983	25.0	mg/kg wet	1000		98.3	75-125	1.47	20	
>C12-C28	1160	25.0	"	1000		116	75-125	5.04	20	
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	56.2		"	50.0		112	70-130			

Calibration Blank (P0G1005-CCB2)

Prepared: 07/10/20 Analyzed: 07/12/20

C6-C12	17.7		mg/kg wet							
>C12-C28	18.9		"							
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	58.8		"	50.0		118	70-130			

Calibration Check (P0G1005-CCV1)

Prepared: 07/10/20 Analyzed: 07/12/20

C6-C12	521	25.0	mg/kg wet	500		104	85-115			
>C12-C28	527	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	57.1		"	50.0		114	70-130			

Permian Basin Environmental Lab, L.P.

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Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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 P0G1005 - TX 1005										
Calibration Check (P0G1005-CCV2)				Prepared: 07/10/20 Analyzed: 07/12/20						
C6-C12	518	25.0	mg/kg wet	500		104	85-115			
>C12-C28	537	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	58.2		"	50.0		116	70-130			
Calibration Check (P0G1005-CCV3)				Prepared: 07/10/20 Analyzed: 07/13/20						
C6-C12	553	25.0	mg/kg wet	500		111	85-115			
>C12-C28	574	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	58.3		"	50.0		117	70-130			
Matrix Spike (P0G1005-MS1)		Source: 0G09011-04		Prepared: 07/10/20 Analyzed: 07/13/20						
C6-C12	1100	26.0	mg/kg dry	1040	26.3	103	75-125			
>C12-C28	1360	26.0	"	1040	19.4	128	75-125			QM-05
Surrogate: 1-Chlorooctane	127		"	104		122	70-130			
Surrogate: o-Terphenyl	61.0		"	52.1		117	70-130			
Matrix Spike Dup (P0G1005-MSD1)		Source: 0G09011-04		Prepared: 07/10/20 Analyzed: 07/13/20						
C6-C12	1110	26.0	mg/kg dry	1040	26.3	104	75-125	1.25	20	
>C12-C28	1340	26.0	"	1040	19.4	127	75-125	1.21	20	QM-05
Surrogate: 1-Chlorooctane	116		"	104		111	70-130			
Surrogate: o-Terphenyl	62.4		"	52.1		120	70-130			

Permian Basin Environmental Lab, L.P.

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Page 10 of 13

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.

BULK Samples received in Bulk soil containers

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

Report Approved By:



Date:

7/15/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
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PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Page 1 of 1

Project Manager: Curt Stanley

Company Name: TRC Environmental Corporation

Company Address: 10 Deste Drive, Ste 150E

City/State/Zip: Midland/TX/79703

Telephone No: (432) 520-7130

Sampler Signature: *Curt Stanley*

Fax No: *(432) 520-7130*

e-mail: *cdstanley@trcsolutions.com*

clbryant@paalp.com
algroves@paalp.com

Report Format: ☒ Standard

☐ TRRP

☐ NPDES

PO #:

Project Loc: Eddy County, New Mexico

Project #:

2020-030

Project Name:

COG - Screech Owl CTB

Page 13 of 13

ORDER #: 0609009		(lab use only)	
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth
	CNSW-A @ 6"		
		Date Sampled	Time Sampled
		7/8/2020	910
		Field Filtered	Total #. of Containers
		1	X
		Ice	HNO ₃
		HCl	H ₂ SO ₄
		NaOH	Na ₂ S ₂ O ₃
		None	Other (Specify)
		DW=Drinking Water SL=Sludge	Matrix
		GW = Groundwater S=Soil/Solid	TPH: 418.1 8015M 8015B
		NP=Non-Potable Specify Other	TPH: TX 1005 TX 1008
			Cations (Ca, Mg, Na, K)
			Anions (Cl, SO ₄ , Alkalinity)
			SAR / ESP / CEC
			Metals: As Ag Ba Cd Cr Pb Hg Se
			Volatiles
			Semivolatiles
			BTEX (8021E 5030 or BTEX 8260)
			RCI
			N.O.R.M.
			Chlorides E 300
			Paint Filter
			TCLP BTEX
			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
			Standard TAT

Special Instructions:

Brian D. Carr

Signature: *Brian D. Carr*

Signature: *Brian D. Carr*

Signature: *Brian D. Carr*

Signature: *Brian D. Carr*

Laboratory Comments:

Sample Containers Intact? ☒ N
VOCs Free of Headspace? ☒ N
Labels on container(s) ☒ N
Custody seals on container(s) ☒ N
Custody seals on cooler(s) ☒ N
Sample Hand Delivered ☒ N
by Courier? ☒ N
by Sampler/Client Rep? ☒ N
Temperature Upon Receipt: *4.1* °C
Adjusted: *5.1* °C Factor *CF+1*
CF-1
CF-2

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: Screech Owl CTB
Project Number: SRS# 2020-030
Location: Eddy County, New Mexico
Lab Order Number: 0G16001



NELAP/TCEQ # T104704516-17-8

Report Date: 07/17/20

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Screech Owl CTB
Project Number: SRS# 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CNSW-B @ 6"	0G16001-01	Soil	07/15/20 10:05	07-16-2020 08:25

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Screech Owl CTB
Project Number: SRS# 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

CNSW-B @ 6"
0G16001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.4 %		75-125	P0G1603	07/16/20	07/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.1 %		75-125	P0G1603	07/16/20	07/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	75.0	1.02	mg/kg dry	1	P0G1606	07/16/20	07/16/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0G1703	07/17/20	07/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0G1602	07/16/20	07/16/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0G1602	07/16/20	07/16/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0G1602	07/16/20	07/16/20	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %		70-130	P0G1602	07/16/20	07/16/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %		70-130	P0G1602	07/16/20	07/16/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	07/16/20	07/16/20	calc	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Screech Owl CTB
Project Number: SRS# 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0G1603 - General Preparation (GC)

Blank (P0G1603-BLK1)

Prepared & Analyzed: 07/16/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.4	75-125			

LCS (P0G1603-BS1)

Prepared & Analyzed: 07/16/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.0956	0.00200	"	0.100		95.6	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.213	0.00200	"	0.200		106	80-120			
Xylene (o)	0.0984	0.00100	"	0.100		98.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	75-125			

LCS Dup (P0G1603-BSD1)

Prepared & Analyzed: 07/16/20

Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120	2.88	20	
Toluene	0.104	0.00200	"	0.100		104	80-120	8.74	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120	0.0861	20	
Xylene (p/m)	0.232	0.00200	"	0.200		116	80-120	8.80	20	
Xylene (o)	0.108	0.00100	"	0.100		108	80-120	8.94	20	
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.7	75-125			

Calibration Blank (P0G1603-CCB1)

Prepared & Analyzed: 07/16/20

Benzene	0.00		mg/kg wet							
Toluene	1.39		"							
Ethylbenzene	0.460		"							
Xylene (p/m)	0.780		"							
Xylene (o)	0.500		"							
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.7	75-125			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Screech Owl CTB
Project Number: SRS# 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0G1603 - General Preparation (GC)

Calibration Blank (P0G1603-CCB2)

Prepared & Analyzed: 07/16/20

Benzene	0.310		mg/kg wet							
Toluene	0.920		"							
Ethylbenzene	0.590		"							
Xylene (p/m)	1.19		"							
Xylene (o)	0.510		"							
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.3	75-125			

Calibration Check (P0G1603-CCV1)

Prepared & Analyzed: 07/16/20

Benzene	0.0983	0.00100	mg/kg wet	0.100		98.3	80-120			
Toluene	0.0951	0.00200	"	0.100		95.1	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		92.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.2	75-125			

Calibration Check (P0G1603-CCV2)

Prepared & Analyzed: 07/16/20

Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120			
Toluene	0.105	0.00200	"	0.100		105	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.228	0.00200	"	0.200		114	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	75-125			

Calibration Check (P0G1603-CCV3)

Prepared & Analyzed: 07/16/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.103	0.00200	"	0.100		103	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.220	0.00200	"	0.200		110	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.9	75-125			

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Screech Owl CTB
Project Number: SRS# 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0G1603 - General Preparation (GC)

Matrix Spike (P0G1603-MS1)		Source: 0G16001-01		Prepared & Analyzed: 07/16/20						
Benzene	0.0838	0.00100	mg/kg dry	0.102	ND	82.2	80-120			
Toluene	0.0828	0.00200	"	0.102	0.000551	80.6	80-120			
Ethylbenzene	0.103	0.00100	"	0.102	ND	101	80-120			
Xylene (p/m)	0.176	0.00200	"	0.204	ND	86.3	80-120			
Xylene (o)	0.0840	0.00100	"	0.102	ND	82.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.122		109	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.122		98.1	75-125			

Matrix Spike Dup (P0G1603-MSD1)		Source: 0G16001-01		Prepared & Analyzed: 07/16/20						
Benzene	0.0869	0.00100	mg/kg dry	0.102	ND	85.2	80-120	3.60	20	
Toluene	0.0850	0.00200	"	0.102	0.000551	82.7	80-120	2.57	20	
Ethylbenzene	0.104	0.00100	"	0.102	ND	102	80-120	0.711	20	
Xylene (p/m)	0.175	0.00200	"	0.204	ND	85.7	80-120	0.680	20	
Xylene (o)	0.0835	0.00100	"	0.102	ND	81.8	80-120	0.585	20	
Surrogate: 4-Bromofluorobenzene	0.126		"	0.122		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.122		98.8	75-125			

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TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Screech Owl CTB
Project Number: SRS# 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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 P0G1606 - *** DEFAULT PREP ***										
LCS (P0G1606-BS1)				Prepared & Analyzed: 07/16/20						
Chloride	400	1.00	mg/kg wet	400		100	80-120			
LCS Dup (P0G1606-BSD1)				Prepared & Analyzed: 07/16/20						
Chloride	400	1.00	mg/kg wet	400		100	80-120	0.0599	20	
Calibration Check (P0G1606-CCV1)				Prepared & Analyzed: 07/16/20						
Chloride	19.8		mg/kg	20.0		98.8	0-200			
Calibration Check (P0G1606-CCV2)				Prepared & Analyzed: 07/16/20						
Chloride	19.6		mg/kg	20.0		98.0	0-200			
Calibration Check (P0G1606-CCV3)				Prepared & Analyzed: 07/16/20						
Chloride	19.8		mg/kg	20.0		98.8	0-200			
Matrix Spike (P0G1606-MS1)		Source: 0G16001-01		Prepared & Analyzed: 07/16/20						
Chloride	547	1.02	mg/kg dry	510	75.0	92.5	80-120			
Matrix Spike (P0G1606-MS2)		Source: 0G14003-01		Prepared & Analyzed: 07/16/20						
Chloride	20500	58.8	mg/kg dry	5880	13300	122	80-120			QM-05
Matrix Spike Dup (P0G1606-MSD1)		Source: 0G16001-01		Prepared & Analyzed: 07/16/20						
Chloride	590	1.02	mg/kg dry	510	75.0	101	80-120	7.68	20	
Matrix Spike Dup (P0G1606-MSD2)		Source: 0G14003-01		Prepared & Analyzed: 07/16/20						
Chloride	19500	58.8	mg/kg dry	5880	13300	105	80-120	4.97	20	
Batch P0G1703 - *** DEFAULT PREP ***										
Blank (P0G1703-BLK1)				Prepared & Analyzed: 07/17/20						
% Moisture	ND	0.1	%							

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Screech Owl CTB
Project Number: SRS# 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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 P0G1703 - *** DEFAULT PREP ***										
Blank (P0G1703-BLK2)	Prepared & Analyzed: 07/17/20									
% Moisture	ND	0.1	%							
Blank (P0G1703-BLK3)	Prepared & Analyzed: 07/17/20									
% Moisture	ND	0.1	%							
Duplicate (P0G1703-DUP1)	Source: 0G16002-09		Prepared & Analyzed: 07/17/20							
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P0G1703-DUP2)	Source: 0G16003-09		Prepared & Analyzed: 07/17/20							
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0G1703-DUP3)	Source: 0G16005-03		Prepared & Analyzed: 07/17/20							
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0G1703-DUP4)	Source: 0G16006-08		Prepared & Analyzed: 07/17/20							
% Moisture	14.0	0.1	%		14.0			0.00	20	
Duplicate (P0G1703-DUP5)	Source: 0G16012-10		Prepared & Analyzed: 07/17/20							
% Moisture	8.0	0.1	%		9.0			11.8	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: Screech Owl CTB
Project Number: SRS# 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

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.

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

Report Approved By:



Date: 7/17/2020

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.

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



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland, TX 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Location: Eddy County, NM
Lab Order Number: 0F15006



NELAP/TCEQ # T104704516-18-9

Report Date: 07/09/20

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC	0F15006-01	Soil	06/11/20 15:15	06-15-2020 09:39

TCLP Metals, TCLP BTEX, and RCI analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:

https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

NORM analysis was subcontracted to ARS International, Port Allen LA. Their report is attached to the email due to an incompatibility issue with our LIMS.

TRC Solutions- Midland, Texas
10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

WC
0F15006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	187	1.02	mg/kg dry	1	P0F1704	06/17/20	06/18/20	EPA 300.0	
Reactive Cyanide	ND	100	mg/kg	1	P0F2407	06/18/20	06/18/20	SW846 9010B	SUB-13
Ignitability by Flashpoint	>212		°F	1	P0F2407	06/20/20	06/20/20	ASTM D93-80	SUB-13
pH	7.42	0.10	pH Units	1	P0F2407	06/22/20	06/22/20	EPA 9045B	SUB-13
% Moisture	2.0	0.1	%	1	P0F1603	06/16/20	06/16/20	ASTM D2216	
Reactive Sulfide	ND	100	mg/kg	1	P0F2407	06/18/20	06/18/20	SW846 9030B	SUB-13

Naturally Occurring Radioactive Material (N.O.R.M.)

Radium 226	1.74	1.53	pCi/g	1	P0G0906	06/17/20	07/02/20	EPA 901.1	SUB12
Radium 228	ND	0.31	pCi/g	1	P0G0906	06/17/20	07/02/20	EPA 901.1	SUB12
Lead 210	ND	1.37	pCi/g	1	P0G0906	06/17/20	07/02/20	EPA 901.1	SUB12
Total Gamma	9.30		pCi/g	1	P0G0906	06/17/20	07/02/20	EPA 901.1	SUB12
Lead 210 Analysis Error	1.21		+/- 2 Sigma	1	P0G0906	06/17/20	07/02/20	EPA 901.1	SUB12
Radium 226 Analysis Error	1.20		+/- 2 Sigma	1	P0G0906	06/17/20	07/02/20	EPA 901.1	SUB12
Radium 228 Analysis Error	0.20		+/- 2 Sigma	1	P0G0906	06/17/20	07/02/20	EPA 901.1	SUB12

TCLP Metals 1311 by EPA / Standard Methods

Mercury	ND	0.000200	mg/L	1	P0F2407	06/18/20	06/19/20	EPA 7470A	SUB-13
Chromium	ND	0.0500	mg/L	1	P0F2407	06/18/20	06/22/20	EPA 6020A	SUB-13
Arsenic	ND	0.0500	mg/L	1	P0F2407	06/18/20	06/22/20	EPA 6020A	SUB-13
Selenium	ND	0.0500	mg/L	1	P0F2407	06/18/20	06/22/20	EPA 6020A	SUB-13
Silver	ND	0.0500	mg/L	1	P0F2407	06/18/20	06/22/20	EPA 6020A	SUB-13
Cadmium	ND	0.0500	mg/L	1	P0F2407	06/18/20	06/22/20	EPA 6020A	SUB-13
Barium	0.485	0.200	mg/L	1	P0F2407	06/18/20	06/22/20	EPA 6020A	SUB-13
Lead	ND	0.0500	mg/L	1	P0F2407	06/18/20	06/22/20	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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10 Desta Dr STE 150E
Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

WC
0F15006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Benzene	ND	100	ug/l	1	P0F2407	06/18/20	06/22/20	EPA 8260B	SUB-13
Toluene	ND	100	ug/l	1	P0F2407	06/18/20	06/22/20	EPA 8260B	SUB-13
Ethylbenzene	ND	100	ug/l	1	P0F2407	06/18/20	06/22/20	EPA 8260B	SUB-13
Xylene (p/m)	ND	200	ug/l	1	P0F2407	06/18/20	06/22/20	EPA 8260B	SUB-13
Xylene (o)	ND	100	ug/l	1	P0F2407	06/18/20	06/22/20	EPA 8260B	SUB-13

Physical Parameters by APHA/ASTM/EPA Methods

Free Liquid	PASS		N/A	1	P0F2504	06/16/20	06/16/20	EPA 9095	
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Permian Basin Environmental Lab, L.P.

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Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

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 P0F1603 - *** DEFAULT PREP ***										
Blank (P0F1603-BLK1)				Prepared & Analyzed: 06/16/20						
% Moisture	ND	0.1	%							
Duplicate (P0F1603-DUP1)				Source: 0F15007-01		Prepared & Analyzed: 06/16/20				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0F1603-DUP2)				Source: 0F15007-17		Prepared & Analyzed: 06/16/20				
% Moisture	4.0	0.1	%		4.0			0.00	20	
Batch P0F1704 - *** DEFAULT PREP ***										
Blank (P0F1704-BLK1)				Prepared & Analyzed: 06/17/20						
Chloride	ND	1.00	mg/kg wet							
LCS (P0F1704-BS1)				Prepared & Analyzed: 06/17/20						
Chloride	391	1.00	mg/kg wet	400		97.7	80-120			
LCS Dup (P0F1704-BSD1)				Prepared & Analyzed: 06/17/20						
Chloride	389	1.00	mg/kg wet	400		97.1	80-120	0.590	20	
Calibration Blank (P0F1704-CCB1)				Prepared & Analyzed: 06/17/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0F1704-CCB2)				Prepared: 06/17/20 Analyzed: 06/18/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0F1704-CCV1)				Prepared & Analyzed: 06/17/20						
Chloride	18.8		mg/kg	20.0		93.9	0-200			

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Project Number: 2020-030
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Fax: (432) 520-7701

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
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Batch P0F1704 - * DEFAULT PREP *****

Calibration Check (P0F1704-CCV2)

Prepared & Analyzed: 06/17/20

Chloride	20.1		mg/kg	20.0		100	0-200			
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Matrix Spike (P0F1704-MS1)

Source: 0F12006-01

Prepared & Analyzed: 06/17/20

Chloride	447	1.00	mg/kg dry	500	10.9	87.2	80-120			
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Matrix Spike (P0F1704-MS2)

Source: 0F12007-17

Prepared: 06/17/20 Analyzed: 06/18/20

Chloride	32200	56.2	mg/kg dry	2810	29700	87.3	80-120			
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Matrix Spike Dup (P0F1704-MSD1)

Source: 0F12006-01

Prepared & Analyzed: 06/17/20

Chloride	471	1.00	mg/kg dry	500	10.9	92.1	80-120	5.31	20	
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Matrix Spike Dup (P0F1704-MSD2)

Source: 0F12007-17

Prepared: 06/17/20 Analyzed: 06/18/20

Chloride	32200	56.2	mg/kg dry	2810	29700	87.7	80-120	0.0367	20	
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Midland TX, 79705

Project: COG-Screech Owl CTB
Project Number: 2020-030
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

SUB-13 Subcontract of analyte/analysis to ALS Houston.
SUB12 Analysis was subcontracted to ARS Port Allen Louisiana.
ROI Received on Ice
BULK Samples received in Bulk soil containers
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

Report Approved By:



Date:

7/9/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Page 1 of 1

Project Manager: Curt Stanley

Company Name TRC Environmental Corporation

Company Address: 10 Desta Drive, Ste 150E

City/State/Zip: Midland/TX/79703

Telephone No: (432) 520 7720

Sampler Signature:

Fax No:

e-mail:

cdstanley@trcsolutions.com

ciprvant@paalp.com
algroves@paalp.com

Report Format:

☒ Standard

☐ TRRP

NPDES

PO#

Project Loc: Eddy County, New Mexico

Project #: 2020-030

Project Name: COG - Screech Owl CTB

Page 8 of 30

(lab use only)						
ORDER #: 0E15006						
LAB # (lab use only)						
FIELD CODE						
WC						
Beginning Depth						
Ending Depth						
Date Sampled		6/11/2020				
Time Sampled		1515				
Field Filtered						
Total #. of Containers		5				
Ice		<input checked="" type="checkbox"/>				
HNO ₃						
HCl						
H ₂ SO ₄						
NaOH						
Na ₂ S ₂ O ₃						
None						
Other (Specify)						
Matrix		Soil				
DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other						
TPH: 418.1 8015M 8015B						
TPH: TX 1005 TX 1006						
Cations (Ca, Mg, Na, K)						
Anions (Cl, SO ₄ , Alkalinity)						
SAR / ESP / CEC						
Metals: As Ag Ba Cd Cr Pb Hg Se		<input checked="" type="checkbox"/>				
Volatiles						
Semivolatiles						
BTX 8021B/5030 or BTX 6260						
RCI		<input checked="" type="checkbox"/>				
N.O.R.M.		<input checked="" type="checkbox"/>				
Chlorides E 300		<input checked="" type="checkbox"/>				
Paint Filter		<input checked="" type="checkbox"/>				
TCLP BTEX		<input checked="" type="checkbox"/>				
RUSH TAT (Pre-Schedule) 24, 48, 72 hrs						
Standard TAT		<input checked="" type="checkbox"/>				
Special Instructions:						
Received by: [Signature] Date: 6/15/20 Time: 0839 Received by PDEL: [Signature] Date: 6/16/20 Time: 0839						
Laboratory Comments:						
Sample @ Container's Intact? Y N						
VOCs Free of Headspace? Y N						
Labels on container(s)? Y N						
Custom seals on container(s)? Y N						
Custody seals on cooler(s)? Y N						
Sample Hand Delivered by Sampler/Client Rep.? Y N						
by Courier? UPS DHL FedEx Lone Star						
Temperature Upon Receipt: 0.4 °C						
Adjusted: 0.5-1.4 °C Factor CH 12						



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

June 23, 2020

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS20060856**

Laboratory Results for: **0F15006**

Dear Brent Barron,

ALS Environmental received 1 sample(s) on Jun 17, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy C. Neir'.

Generated By: JUMOKE.LAWAL

Andy C. Neir

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP
Project: 0F15006
Work Order: HS20060856

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20060856-01	0F15006-01	Soil		11-Jun-2020 15:15	17-Jun-2020 09:12	<input type="checkbox"/>

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP
Project: 0F15006
Work Order: HS20060856

CASE NARRATIVE**Work Order Comments**

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

GCMS Volatiles by Method SW8260**Batch ID: 154621****Sample ID: HS20060934-03MS**

- MS and MSD are for an unrelated sample

Metals by Method SW1311/6020**Batch ID: 154693**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7470**Batch ID: 154670**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D92-12b**Batch ID: R363632**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9045D**Batch ID: R363694**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.4.2**Batch ID: R363525**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.3.2**Batch ID: R363522**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP
 Project: 0F15006
 Sample ID: 0F15006-01
 Collection Date: 11-Jun-2020 15:15

ANALYTICAL REPORT

WorkOrder: HS20060856
 Lab ID: HS20060856-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES BY SW8260C Method: SW8260 Leache: SW1311 / 19-Jun-2020 Prep: SW1311 / 19-Jun-2020 Analyst: PC						
Benzene	ND		0.10	mg/L	20	22-Jun-2020 19:22
Ethylbenzene	ND		0.10	mg/L	20	22-Jun-2020 19:22
m,p-Xylene	ND		0.20	mg/L	20	22-Jun-2020 19:22
o-Xylene	ND		0.10	mg/L	20	22-Jun-2020 19:22
Toluene	ND		0.10	mg/L	20	22-Jun-2020 19:22
Xylenes, Total	ND		0.10	mg/L	20	22-Jun-2020 19:22
Surr: 1,2-Dichloroethane-d4	117		70-126	%REC	20	22-Jun-2020 19:22
Surr: 4-Bromofluorobenzene	96.9		82-124	%REC	20	22-Jun-2020 19:22
Surr: Dibromofluoromethane	108		77-123	%REC	20	22-Jun-2020 19:22
Surr: Toluene-d8	103		82-127	%REC	20	22-Jun-2020 19:22
TCLP METALS BY SW6020A Method: SW1311/6020 Leache: SW1311 / 19-Jun-2020 Prep: SW3010A / 22-Jun-2020 Analyst: JHD						
Arsenic	ND		0.0500	mg/L	1	22-Jun-2020 21:46
Barium	0.485		0.200	mg/L	1	22-Jun-2020 21:46
Cadmium	ND		0.0500	mg/L	1	22-Jun-2020 21:46
Chromium	ND		0.0500	mg/L	1	22-Jun-2020 21:46
Lead	ND		0.0500	mg/L	1	22-Jun-2020 21:46
Selenium	ND		0.0500	mg/L	1	22-Jun-2020 21:46
Silver	ND		0.0500	mg/L	1	22-Jun-2020 21:46
TCLP MERCURY BY SW7470A Method: SW7470 Leache: SW1311 / 19-Jun-2020 Prep: SW7470 / 19-Jun-2020 Analyst: FO						
Mercury	ND		0.000200	mg/L	1	19-Jun-2020 18:44
FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B Method: ASTM D92-12b Analyst: TH						
Flash Point	> 212	n	50.0	°F	1	20-Jun-2020 10:00
REACTIVE CYANIDE Method: SW7.3.3.2 Prep: SW7.3.3.2 Analyst: KVL						
Reactive Cyanide	ND	n	100	mg/Kg	1	18-Jun-2020 14:50
REACTIVE SULFIDE Method: SW7.3.4.2 Analyst: KVL						
Reactive Sulfide	ND	n	100	mg/Kg	1	18-Jun-2020 15:10
PH SOIL BY SW9045D Method: SW9045D Analyst: JAC						
pH	7.42	H	0.100	pH Units	1	22-Jun-2020 14:31
Temp Deg C @pH	20.9	H	0	°C	1	22-Jun-2020 14:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 23-Jun-20

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP

Project: 0F15006

WorkOrder: HS20060856

Batch ID: 154618 Start Date: 18 Jun 2020 16:00 End Date: 19 Jun 2020 09:00

Method: TCLP MERCURY EXTRACTION BY SW1311 Prep Code: 1311LHG_EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20060856-01		100 (grams)	2000 (mL)	20

Batch ID: 154620 Start Date: 18 Jun 2020 16:00 End Date: 19 Jun 2020 09:00

Method: TCLP METALS EXTRACTION BY SW1311 Prep Code: 1311LM_EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20060856-01		100 (grams)	2000 (mL)	20

Batch ID: 154621 Start Date: 18 Jun 2020 16:00 End Date: 19 Jun 2020 09:00

Method: TCLP ZHE (VOL EXTRACTION) Prep Code: 1311ZHE_NR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20060856-01		25 (grams)	500 (mL)	20

Batch ID: 154670 Start Date: 19 Jun 2020 11:30 End Date: 19 Jun 2020 13:30

Method: MERCURY TCLP PREP BY SW7470A Prep Code: 1311_HGPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20060856-01		10 (mL)	10 (mL)	1

Batch ID: 154693 Start Date: 22 Jun 2020 12:00 End Date: 22 Jun 2020 12:00

Method: TCLP LEACHATE DIGESTION BY SW3010A Prep Code: 3010A_TCLP

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20060856-01		1 (mL)	10 (mL)	10

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP
Project: 0F15006
WorkOrder: HS20060856

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 154621 (0)		Test Name : TCLP VOLATILES BY SW8260C			Matrix: Soil	
HS20060856-01	0F15006-01	11 Jun 2020 15:15	19 Jun 2020 09:00	19 Jun 2020 12:36	22 Jun 2020 19:22	20
Batch ID: 154670 (0)		Test Name : TCLP MERCURY BY SW7470A			Matrix: Soil	
HS20060856-01	0F15006-01	11 Jun 2020 15:15	19 Jun 2020 09:00	19 Jun 2020 11:30	19 Jun 2020 18:44	1
Batch ID: 154693 (0)		Test Name : TCLP METALS BY SW6020A			Matrix: Soil	
HS20060856-01	0F15006-01	11 Jun 2020 15:15	19 Jun 2020 09:00	22 Jun 2020 12:00	22 Jun 2020 21:46	1
Batch ID: R363522 (0)		Test Name : REACTIVE CYANIDE			Matrix: Soil	
HS20060856-01	0F15006-01	11 Jun 2020 15:15			18 Jun 2020 14:50	1
Batch ID: R363525 (0)		Test Name : REACTIVE SULFIDE			Matrix: Soil	
HS20060856-01	0F15006-01	11 Jun 2020 15:15			18 Jun 2020 15:10	1
Batch ID: R363632 (0)		Test Name : FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B			Matrix: Soil	
HS20060856-01	0F15006-01	11 Jun 2020 15:15			20 Jun 2020 10:00	1
Batch ID: R363694 (0)		Test Name : PH SOIL BY SW9045D			Matrix: Soil	
HS20060856-01	0F15006-01	11 Jun 2020 15:15			22 Jun 2020 14:31	1

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP
Project: 0F15006
WorkOrder: HS20060856

QC BATCH REPORT

Batch ID: 154670 (0)		Instrument: HG03		Method: TCLP MERCURY BY SW7470A					
MBLK	Sample ID: MBLKT1-154670	Units: mg/L		Analysis Date: 19-Jun-2020 18:27					
Client ID:	Run ID: HG03_363622		SeqNo: 5628058		PrepDate: 19-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	ND	0.000200							
MBLK	Sample ID: MBLK-154670	Units: mg/L		Analysis Date: 19-Jun-2020 18:19					
Client ID:	Run ID: HG03_363622		SeqNo: 5628053		PrepDate: 19-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	ND	0.000200							
LCS	Sample ID: LCS-154670	Units: mg/L		Analysis Date: 19-Jun-2020 18:20					
Client ID:	Run ID: HG03_363622		SeqNo: 5628054		PrepDate: 19-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	0.00507	0.000200	0.005	0	101	80 - 120			
MS	Sample ID: HS20060799-01MS	Units: mg/L		Analysis Date: 19-Jun-2020 18:24					
Client ID:	Run ID: HG03_363622		SeqNo: 5628056		PrepDate: 19-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	0.005	0.000200	0.005	0.000011	99.8	75 - 125			
MSD	Sample ID: HS20060799-01MSD	Units: mg/L		Analysis Date: 19-Jun-2020 18:25					
Client ID:	Run ID: HG03_363622		SeqNo: 5628057		PrepDate: 19-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	0.00505	0.000200	0.005	0.000011	101	75 - 125	0.005	0.995	20
The following samples were analyzed in this batch: HS20060856-01									

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP
Project: 0F15006
WorkOrder: HS20060856

QC BATCH REPORT

Batch ID: 154693 (0)		Instrument: ICPMS05		Method: TCLP METALS BY SW6020A					
MBLK	Sample ID: MBLKT2-154693	Units: mg/L		Analysis Date: 22-Jun-2020 21:34					
Client ID:	Run ID: ICPMS05_363671		SeqNo: 5630445		PrepDate: 22-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic	ND	0.0500
Barium	ND	0.200
Cadmium	ND	0.0500
Chromium	ND	0.0500
Lead	ND	0.0500
Selenium	ND	0.0500
Silver	ND	0.0500

MBLK	Sample ID: MBLKT3-154693	Units: mg/L		Analysis Date: 22-Jun-2020 21:37					
Client ID:	Run ID: ICPMS05_363671		SeqNo: 5630446		PrepDate: 22-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic	ND	0.0500
Barium	ND	0.200
Cadmium	ND	0.0500
Chromium	ND	0.0500
Lead	ND	0.0500
Selenium	ND	0.0500
Silver	ND	0.0500

MBLK	Sample ID: MBLKT1-154693	Units: mg/L		Analysis Date: 22-Jun-2020 21:32					
Client ID:	Run ID: ICPMS05_363671		SeqNo: 5630444		PrepDate: 22-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic	ND	0.0500
Barium	ND	0.200
Cadmium	ND	0.0500
Chromium	ND	0.0500
Lead	ND	0.0500
Selenium	ND	0.0500
Silver	ND	0.0500

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP
Project: 0F15006
WorkOrder: HS20060856

QC BATCH REPORT

Batch ID: 154693 (0)		Instrument: ICPMS05		Method: TCLP METALS BY SW6020A					
MBLK	Sample ID: MBLK-154693	Units: mg/L		Analysis Date: 22-Jun-2020 21:29					
Client ID:	Run ID: ICPMS05_363671		SeqNo: 5630443		PrepDate: 22-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic	ND	0.00500							
Barium	ND	0.0200							
Cadmium	ND	0.00500							
Chromium	ND	0.00500							
Lead	ND	0.00500							
Selenium	ND	0.00500							
Silver	ND	0.00500							

LCS	Sample ID: LCS-154693	Units: mg/L		Analysis Date: 22-Jun-2020 21:39					
Client ID:	Run ID: ICPMS05_363671		SeqNo: 5630447		PrepDate: 22-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.05037	0.00500	0.05	0	101	80 - 120			
Barium	0.04839	0.0200	0.05	0	96.8	80 - 120			
Cadmium	0.05079	0.00500	0.05	0	102	80 - 120			
Chromium	0.04932	0.00500	0.05	0	98.6	80 - 120			
Lead	0.0493	0.00500	0.05	0	98.6	80 - 120			
Selenium	0.05228	0.00500	0.05	0	105	80 - 120			
Silver	0.0485	0.00500	0.05	0	97.0	80 - 120			

MS	Sample ID: HS20060856-01MS	Units: mg/L		Analysis Date: 22-Jun-2020 21:51					
Client ID: 0F15006-01	Run ID: ICPMS05_363671		SeqNo: 5630452		PrepDate: 22-Jun-2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.5261	0.0500	0.5	0.01624	102	80 - 120			
Barium	0.8949	0.200	0.5	0.4851	82.0	80 - 120			
Cadmium	0.4767	0.0500	0.5	0.00011	95.3	80 - 120			
Chromium	0.4867	0.0500	0.5	0.00012	97.3	80 - 120			
Lead	0.4691	0.0500	0.5	0.00028	93.8	80 - 120			
Selenium	0.5227	0.0500	0.5	0.00157	104	80 - 120			
Silver	0.4505	0.0500	0.5	0.00011	90.1	80 - 120			

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP
Project: 0F15006
WorkOrder: HS20060856

QC BATCH REPORT

Batch ID: 154693 (0)		Instrument: ICPMS05		Method: TCLP METALS BY SW6020A					
MSD		Sample ID: HS20060856-01MSD		Units: mg/L		Analysis Date: 23-Jun-2020 15:18			
Client ID: 0F15006-01		Run ID: ICPMS05_363746		SeqNo: 5631962		PrepDate: 22-Jun-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.5201	0.0500	0.5	0.01624	101	80 - 120	0.5261	1.15	20
Barium	0.9399	0.200	0.5	0.4851	91.0	80 - 120	0.8949	4.9	20
Cadmium	0.4854	0.0500	0.5	0	97.1	80 - 120	0.4767	1.81	20
Chromium	0.4816	0.0500	0.5	0	96.3	80 - 120	0.4867	1.05	20
Lead	0.4667	0.0500	0.5	0	93.3	80 - 120	0.4691	0.515	20
Selenium	0.5003	0.0500	0.5	0	100	80 - 120	0.5227	4.38	20
Silver	0.4705	0.0500	0.5	0	94.1	80 - 120	0.4505	4.35	20
PDS		Sample ID: HS20060856-01PDS		Units: mg/L		Analysis Date: 22-Jun-2020 21:56			
Client ID: 0F15006-01		Run ID: ICPMS05_363671		SeqNo: 5630454		PrepDate: 22-Jun-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	1.082	0.0500	1	0.01624	107	75 - 125			
Barium	1.416	0.200	1	0.4851	93.1	75 - 125			
Cadmium	0.9641	0.0500	1	0.00011	96.4	75 - 125			
Chromium	1.008	0.0500	1	0.00012	101	75 - 125			
Lead	0.9592	0.0500	1	0.00028	95.9	75 - 125			
Selenium	1.091	0.0500	1	0.00157	109	75 - 125			
Silver	0.8895	0.0500	1	0.00011	88.9	75 - 125			
SD		Sample ID: HS20060856-01SD		Units: mg/L		Analysis Date: 22-Jun-2020 21:49			
Client ID: 0F15006-01		Run ID: ICPMS05_363671		SeqNo: 5630451		PrepDate: 22-Jun-2020		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Arsenic	ND	0.250					0.01624	0	10
Barium	0.4819	1.00					0.4851	0	10 J
Cadmium	ND	0.250					0.00011	0	10
Chromium	ND	0.250					0.00012	0	10
Lead	ND	0.250					0.00028	0	10
Selenium	ND	0.250					0.00157	0	10
Silver	ND	0.250					0.00011	0	10
The following samples were analyzed in this batch: HS20060856-01									

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP
Project: 0F15006
WorkOrder: HS20060856

QC BATCH REPORT

Batch ID: 154621 (0)		Instrument: VOA9		Method: TCLP VOLATILES BY SW8260C					
MBLK	Sample ID: MBLK-154621	Units: ug/L		Analysis Date: 22-Jun-2020 18:57					
Client ID:	Run ID: VOA9_363740	SeqNo: 5631134		PrepDate: 19-Jun-2020		DF: 20			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	ND	100							
Ethylbenzene	ND	100							
m,p-Xylene	ND	200							
o-Xylene	ND	100							
Toluene	ND	100							
Xylenes, Total	ND	100							
Surr: 1,2-Dichloroethane-d4	1169	100	1000	0	117	70 - 130			
Surr: 4-Bromofluorobenzene	976.4	100	1000	0	97.6	82 - 115			
Surr: Dibromofluoromethane	1104	100	1000	0	110	73 - 126			
Surr: Toluene-d8	1037	100	1000	0	104	81 - 120			

LCS	Sample ID: VLCSW-154621	Units: ug/L		Analysis Date: 23-Jun-2020 12:05					
Client ID:	Run ID: VOA9_363777	SeqNo: 5632002		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	23.03	5.0	20	0	115	74 - 120			
Ethylbenzene	21.23	5.0	20	0	106	77 - 117			
m,p-Xylene	45.08	10	40	0	113	77 - 122			
o-Xylene	22.19	5.0	20	0	111	75 - 119			
Toluene	22.56	5.0	20	0	113	77 - 118			
Xylenes, Total	67.26	5.0	60	0	112	75 - 122			
Surr: 1,2-Dichloroethane-d4	56.7	5.0	50	0	113	70 - 130			
Surr: 4-Bromofluorobenzene	51.03	5.0	50	0	102	82 - 115			
Surr: Dibromofluoromethane	54.09	5.0	50	0	108	73 - 126			
Surr: Toluene-d8	50.87	5.0	50	0	102	81 - 120			

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP
Project: 0F15006
WorkOrder: HS20060856

QC BATCH REPORT

Batch ID: 154621 (0)		Instrument: VOA9		Method: TCLP VOLATILES BY SW8260C					
LCS		Sample ID: VLCSW-154621		Units: ug/L		Analysis Date: 22-Jun-2020 12:02			
Client ID:		Run ID: VOA9_363740		SeqNo: 5631130		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	21.89	5.0	20	0	109	74 - 120			
Ethylbenzene	20.21	5.0	20	0	101	77 - 117			
m,p-Xylene	42.03	10	40	0	105	77 - 122			
o-Xylene	20.9	5.0	20	0	105	75 - 119			
Toluene	20.79	5.0	20	0	104	77 - 118			
Xylenes, Total	62.93	5.0	60	0	105	75 - 122			
Surr: 1,2-Dichloroethane-d4	56.07	5.0	50	0	112	70 - 130			
Surr: 4-Bromofluorobenzene	51	5.0	50	0	102	82 - 115			
Surr: Dibromofluoromethane	53.38	5.0	50	0	107	73 - 126			
Surr: Toluene-d8	51.31	5.0	50	0	103	81 - 120			

MS		Sample ID: HS20060934-03MS		Units: ug/L		Analysis Date: 23-Jun-2020 15:22			
Client ID:		Run ID: VOA9_363777		SeqNo: 5632009		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	25.24	5.0	20	0	126	70 - 127			
Ethylbenzene	24.85	5.0	20	0	124	70 - 124			S
m,p-Xylene	50.67	10	40	0	127	70 - 130			
o-Xylene	24.66	5.0	20	0	123	70 - 124			
Toluene	24.56	5.0	20	0	123	70 - 123			
Xylenes, Total	75.33	5.0	60	0	126	70 - 130			
Surr: 1,2-Dichloroethane-d4	57.76	5.0	50	0	116	70 - 126			
Surr: 4-Bromofluorobenzene	50.12	5.0	50	0	100	82 - 124			
Surr: Dibromofluoromethane	54.58	5.0	50	0	109	77 - 123			
Surr: Toluene-d8	51.47	5.0	50	0	103	82 - 127			

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP

Project: 0F15006

WorkOrder: HS20060856

QC BATCH REPORT

Batch ID: 154621 (0)		Instrument: VOA9		Method: TCLP VOLATILES BY SW8260C					
MS		Sample ID: HS20060772-22MS		Units: ug/L		Analysis Date: 22-Jun-2020 15:18			
Client ID:		Run ID: VOA9_363740		SeqNo: 5631133		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	25.84	5.0	20	0	129	70 - 127			S
Ethylbenzene	24.02	5.0	20	0	120	70 - 124			
m,p-Xylene	50.26	10	40	0	126	70 - 130			
o-Xylene	24.17	5.0	20	0	121	70 - 124			
Toluene	24.47	5.0	20	0	122	70 - 123			
Xylenes, Total	74.43	5.0	60	0	124	70 - 130			
Surr: 1,2-Dichloroethane-d4	56.74	5.0	50	0	113	70 - 126			
Surr: 4-Bromofluorobenzene	50.24	5.0	50	0	100	82 - 124			
Surr: Dibromofluoromethane	54.3	5.0	50	0	109	77 - 123			
Surr: Toluene-d8	51.14	5.0	50	0	102	82 - 127			

The following samples were analyzed in this batch: HS20060856-01

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP

Project: 0F15006

WorkOrder: HS20060856

QC BATCH REPORT

Batch ID: R363522 (0)		Instrument: UV-2450		Method: REACTIVE CYANIDE					
MBLK	Sample ID: MBLK-R363522	Units: mg/Kg		Analysis Date: 18-Jun-2020 14:50					
Client ID:	Run ID: UV-2450_363522	SeqNo: 5625503		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	ND	100							
LCS	Sample ID: LCS-R363522	Units: mg/Kg		Analysis Date: 18-Jun-2020 14:50					
Client ID:	Run ID: UV-2450_363522	SeqNo: 5625502		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	0.67	100	10	0	6.70	5 - 100			J
MS	Sample ID: HS20060624-01MS	Units: mg/Kg		Analysis Date: 18-Jun-2020 14:50					
Client ID:	Run ID: UV-2450_363522	SeqNo: 5625512		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	0.6	100	10	0.01	5.90	5 - 100			J
The following samples were analyzed in this batch: HS20060856-01									

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP

Project: 0F15006

WorkOrder: HS20060856

QC BATCH REPORT

Batch ID: R363525 (0)		Instrument: WetChem_HS		Method: REACTIVE SULFIDE					
MBLK	Sample ID: MBLK-R363525	Units: mg/Kg		Analysis Date: 18-Jun-2020 15:10					
Client ID:	Run ID: WetChem_HS_363525		SeqNo: 5625547		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	ND	100							
LCS	Sample ID: LCS-R363525	Units: mg/Kg		Analysis Date: 18-Jun-2020 15:10					
Client ID:	Run ID: WetChem_HS_363525		SeqNo: 5625546		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	72	100	100	0	72.0	20 - 120			J
MS	Sample ID: HS20060624-01MS	Units: mg/Kg		Analysis Date: 18-Jun-2020 15:10					
Client ID:	Run ID: WetChem_HS_363525		SeqNo: 5625548		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	68	100	100	0	68.0	20 - 120			J
The following samples were analyzed in this batch: HS20060856-01									

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP
Project: 0F15006
WorkOrder: HS20060856

QC BATCH REPORT

Batch ID: R363632 (0)		Instrument: WetChem_HS		Method: FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B					
DUP	Sample ID: HS20060799-01DUP		Units: °F		Analysis Date: 20-Jun-2020 10:00				
Client ID:	Run ID: WetChem_HS_363632		SeqNo: 5628449		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Flash Point	> 212	50.0					0	0	30
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The following samples were analyzed in this batch: HS20060856-01

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP
Project: 0F15006
WorkOrder: HS20060856

QC BATCH REPORT

Batch ID: R363694 (0)		Instrument: WetChem_HS		Method: PH SOIL BY SW9045D					
DUP	Sample ID: HS20060641-01DUP	Units: pH Units		Analysis Date: 22-Jun-2020 14:31					
Client ID:	Run ID: WetChem_HS_363694		SeqNo: 5629903		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
pH	7.64	0.100					7.7	0.782	10
Temp Deg C @pH	20.9	0					21	0.477	10

The following samples were analyzed in this batch: HS20060856-01

ALS Houston, US

Date: 23-Jun-20

Client: Permian Basin Environmental Lab, LP
Project: 0F15006
WorkOrder: HS20060856

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

ALS Houston, US

Date: 23-Jun-20

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Florida	E87611-28	30-Jun-2020
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2019-2020	31-Jul-2020
Louisiana	03087, 2019-2020	30-Jun-2020
Maryland	343, 2019-2020	30-Jun-2020
North Carolina	624-2020	31-Dec-2020
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

ALS Houston, US

Date: 23-Jun-20

Sample Receipt Checklist

Work Order ID: HS20060856

Date/Time Received: 17-Jun-2020 09:12

Client Name: Permian Basin Lab

Received by: Paresh M. Giga

Completed By: /S/ Jared R. Mekan	17-Jun-2020 19:14	Reviewed by: /S/ Andy C. Neir	18-Jun-2020 18:01
eSignature	Date/Time	eSignature	Date/Time

Matrices: SoilCarrier name: ALS Courier

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	1 Page(s)
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samplers name present on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Temperature(s)/Thermometer(s):

1.9°C/1.9°C UC/C

IR25

Cooler(s)/Kit(s):

Red

Date/Time sample(s) sent to storage:

06/17/2020 19:15

Water - VOA vials have zero headspace?

Yes ☐No ☐No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐No ☐N/A ☒

pH adjusted?

Yes ☐No ☐N/A ☒

pH adjusted by:

Login Notes:

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Appendix F
Request for Approval to Accept Solid Waste
(NMOCD Form C-138)

1625 N. French Dr., Hobbs, NM 88240

Energy Minerals and Natural Resources

Revised August 1, 2011

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

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

*Surface Waste Management Facility Operator and Generator shall maintain and make this Documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**1. Generator Name and Address:**Plains Pipeline, LP
1911 Connie Rd.
Carlsbad, NM 88220**2. Originating Site:**

Plains Screech Owl CTB LACT

3. Location of Material (Street Address, City, State or ULSTR):

ULT "K", Section 18, Township 26 S, Range 27 East, Eddy County, New Mexico

4. Source and Description of Waste:

Waste was generated due to a crude oil release from a Plains LACT unit at the COG Operating, LLC Screech Owl CTB. The Plains LACT Unit is adjacent to the COG Screech Owl CTB.

Estimated Volume 220 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) yd³ / bbls**5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Willy Lujan, representative or authorized agent for Plains Pipeline, LP do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load☒ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)**GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS**

I, Willy Lujan, representative for Plains Pipeline, LP do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter:

Various

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Lea Land LLC - NMOCD Permit #NM-01-35-0

Address of Facility: Section 32, Township 20 South, Range 32 East, NMPM Lea County, New Mexico

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☒ Landfill ☐ Other**Waste Acceptance Status:**☒ APPROVED☐ DENIED (Must Be Maintained As Permanent Record)PRINT NAME: Sarahlyn HallTITLE: Mktg. Mgr.DATE: 8/25/20SIGNATURE: Sarahlyn Hall
Surface Waste Management Facility Authorized AgentTELEPHONE NO.: 405-579-1187

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

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NRM2009254898
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Plains Pipeline, L.P.	OGRID 713291
Contact Name Amber Groves	Contact Telephone 575-200-5517
Contact email algroves@paalp.com	Incident # (assigned by OCD)
Contact mailing address 3112 West US HWY 82, Lovington NM 88260	

Location of Release Source

Latitude 32.038972

Longitude -104.232091

(NAD 83 in decimal degrees to 5 decimal places)

Site Name COG Screech Owl Federal CTB	Site Type LACT Unit
Date Release Discovered 3/28/2020 @ 11:00 am	API# (if applicable)

Unit Letter	Section	Township	Range	County
K	18	26S	27E	Eddy

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 15 bbls	Volume Recovered (bbls) 12 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A nipple failure on the meter skid caused an approximate 15 bbl release.

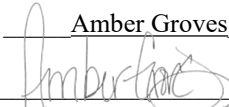
State of New Mexico
Oil Conservation Division

Incident ID	NRM2009254898
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Amber Groves</u>	Title: <u>Remediation Coordinator</u>
Signature: 	Date: <u>4/1/2020</u>
email: <u>algroves@paalp.com</u>	Telephone: <u>575-200-5517</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>4/1/2020</u>	

Amber L Groves

NRM2009254898

From: Tommy J Bacon
Sent: Wednesday, April 1, 2020 2:06 PM
To: Amber L Groves
Subject: Screech Owl release

Calculations for the release
25' X 40' X 1' X 0.0154= 15bbbs

Thanks
Tommy

Appendix H

Lea Land, Inc. Disposal Manifests

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Fulk

NON-HAZARDOUS WASTE MANIFEST

NO **138417**

1. PAGE OF

2. TRAILER NO. **265**

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 1911 Connie Road	5. PICK-UP DATE 9/3/2020
	PHONE NO. (713) 648-4100	CITY Carlsbad STATE NM ZIP 88220	6. TNRCC I.D. NO.

N E R A T O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	a. Non-Regulated, Non-Hazardous Waste	No. 1 Type CM			
	b.				
	c.				

12. COMMENTS OR SPECIAL INSTRUCTIONS:
SCREECH OWL FEDERAL CTB

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME **JOE ONTIVEROS** PHONE NO. **575-887-4048** 24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME SIGNATURE DATE

T R A N S P O R T E R S	16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES	17. TRANSPORTER (2) NAME:
	TEXAS I.D. NO.	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786	IN CASE OF EMERGENCY CONTACT:
	EMERGENCY PHONE:	EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material
PRINTED/TYPED NAME **Victor Lopez** DATE **9/3/2020**
SIGNATURE *[Signature]* DATE

19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME
SIGNATURE DATE

D I S P O S I T Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.		
	AUTHORIZED SIGNATURE <i>[Signature]</i>	CELL NO.	DATE 9/3/2020

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Fulk

NON-HAZARDOUS WASTE MANIFEST

NO **138418**

1. PAGE OF

2. TRAILER NO. *266*

G

3. COMPANY NAME
Plains Pipeline, LP

4. ADDRESS
1911 Connie Road

5. PICK-UP DATE
9/3/2020

E

PHONE NO.
(713) 848-4100

CITY
Carlsbad

STATE
NM

ZIP
88220

6. TNRCC I.D. NO.

N

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

~~Non-Regulated, Non-Hazardous Waste~~

8. CONTAINERS
No. | Type

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

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b.

c.

d.

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12. COMMENTS OR SPECIAL INSTRUCTIONS:
SCREECH OWL FEDERAL CTB

13. WASTE PROFILE NO.

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14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME
JOE ONTIVEROS

PHONE NO.
575-887-4048

24-HOUR EMERGENCY NO.

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15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

SIGNATURE

DATE

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16.

TRANSPORTER (1)

NAME: TRIPLE C OILFIELD SERVICES

TEXAS I.D. NO.

JOSE CARTA

IN CASE OF EMERGENCY CONTACT:

(432) 834-3786

EMERGENCY PHONE:

17.

TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

PEDRO PEÑA

PRINTED/TYPED NAME

9/3/2020

SIGNATURE

PEDRO PEÑA

DATE

SIGNATURE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

Santos Gonzalez

CELL NO.

DATE

9/3/2020

TIME

8:40

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C
005

NON-HAZARDOUS WASTE MANIFEST

NO **138427**

1. PAGE ___ OF ___

2. TRAILER NO.

005

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP		4. ADDRESS 1811 Connie Road		5. PICK-UP DATE 9/3/2020	
	PHONE NO. (713) 646-4100		CITY Carlsbad	STATE NM	ZIP 88220	6. TNRCC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste				8. CONTAINERS No. 1 Type CM	9. TOTAL QUANTITY
					10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	12. COMMENTS OR SPECIAL INSTRUCTIONS: SCREECH OWL FEDERAL CTB				13. WASTE PROFILE NO.	

14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
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16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786 EMERGENCY PHONE:	17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:
--	---

18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME <i>Miguel Higuera</i> SIGNATURE <i>Miguel H</i> DATE 9/3/2020	19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE
--	--

D I S P O S I T O R S	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
	AUTHORIZED SIGNATURE <i>Santos Gonzalez</i>		CELL NO.	DATE 9/3/2020	TIME 2:40

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple C
02

NON-HAZARDOUS WASTE MANIFEST

NO **138428**

1. PAGE ___ OF ___

2. TRAILER NO.

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 1811 Connie Road	5. PICK-UP DATE 9/3/2020
	PHONE NO. (713) 848-4100	CITY Carlsbad STATE NM ZIP 88220	6. TNRCC I.D. NO.

N E R A T O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste	8. CONTAINERS No. 2 Type DRUM	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	a.				
	b.				
	c.				
	d. WT: 39,040				

12. COMMENTS OR SPECIAL INSTRUCTIONS: SCREECH OWL FEDERAL CTB	13. WASTE PROFILE NO.
---	-----------------------

14. IN CASE OF EMERGENCY OR SPILL, CONTACT	
NAME JOE ONTIVEROS	PHONE NO. 575-887-4048
24-HOUR EMERGENCY NO.	

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
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16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: JOSE CARTA (432) 634-3786 EMERGENCY PHONE:	17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:
--	---

18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME [Signature] DATE 9/3/2020 SIGNATURE [Signature] DATE	19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE
---	--

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
---------------	---	------------------------

PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS
---	--------------

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE [Signature]	CELL NO.	DATE 9/3/2020	TIME 2:45
--	----------	-------------------------	---------------------

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Fulk

NON-HAZARDOUS WASTE MANIFEST

NO **138434**

1. PAGE OF

2. TRAILER NO. *266*

G

3. COMPANY NAME
Plains Pipeline, LP

4. ADDRESS
1911 Connie Road

5. PICK-UP DATE
9/4/2020

E

PHONE NO.
(713) 648-4100

CITY
Carlsbad

STATE
NM

ZIP
88220

6. TNRC I.D. NO.

N

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. ~~Non-Regulated, Non-Hazardous Waste~~

8. CONTAINERS

No.

Type

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

E

b.

c.

R

WT.

44,360

A

12. COMMENTS OR SPECIAL INSTRUCTIONS:
SCREECH OWL FEDERAL CTB

13. WASTE PROFILE NO.

T

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME
JOE ONTIVEROS

PHONE NO.
575-887-4048

24-HOUR EMERGENCY NO.

O

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

SIGNATURE

DATE

T

16. TRANSPORTER (1)

NAME: TRIPLE C OILFIELD SERVICES

TEXAS I.D. NO.

JOSE CARTA

IN CASE OF EMERGENCY CONTACT:

(432) 634-3786

EMERGENCY PHONE:

17.

TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

S

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME

PEDRO PEÑA

9/4/2020

SIGNATURE

PEDRO PEÑA

DATE

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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S
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T
Y

Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

Santos Gonzalez

CELL NO.

DATE

9/4/2020

TIME

7:35

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Fulk

265

NON-HAZARDOUS WASTE MANIFEST

NO **138448**

1. PAGE OF

2. TRAILER NO.

G E N E R A T O R	3. COMPANY NAME Plains Pipeline, LP		4. ADDRESS 1911 Connie Road		5. PICK-UP DATE 9/4/2020			
	PHONE NO. (713) 646-4100		CITY Carlsbad	STATE NM	ZIP 88220	6. TNRCC I.D. NO.		
	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste				8. CONTAINERS No. 1 Type CWT	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	12. COMMENTS OR SPECIAL INSTRUCTIONS: SCREECH OWL FEDERAL CTB				13. WASTE PROFILE NO.			
T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT							
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.			
D I S P O S I T A L Y	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC							
	PRINTED/TYPED NAME				SIGNATURE		DATE	
	16. TRANSPORTER (1) NAME: TRIPLE C OILFIELD SERVICES TEXAS I.D. NO. JOSE CARTA IN CASE OF EMERGENCY CONTACT: (432) 634-3786 EMERGENCY PHONE:				17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:			
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Victor Lopez SIGNATURE <i>[Signature]</i> DATE 9/4/2020				19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE			
D I S P O S I T A L Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			PHONE: 575-887-4048		
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS					
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.							
AUTHORIZED SIGNATURE <i>[Signature]</i>		CELL NO.		DATE 9/4/2020		TIME 8:20		

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

Incident ID	NRM2009254898
District RP	
Facility ID	
Application ID	

Remediation Plan

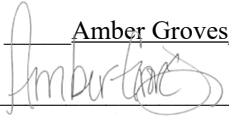
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Amber Groves Title: Remediation Coordinator
Signature:  Date: 10/21/2020
email: algroves@paalp.com Telephone: (575)200-5517

OCD Only

Received by: Robert Hamlet Date: 4/1/2021

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral Approved

Signature: Robert Hamlet Date: 4/1/2021

District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 11041

CONDITIONS OF APPROVAL

Operator:	PLAINS MARKETING L.P.	333 Clay St, Ste 1600	Houston, TX77002	OGRID:	34053	Action Number:	11041	Action Type:	C-141
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OCD Reviewer	Condition
rhamlet	Plains deferral request to complete final remediation of soil sample locations T-BH-N @ 3', T-BH-S @ 3', T-EW-N, T-EW-S, and all contaminants under/between both secondary containments is approved. Plains will complete final remediation during any future major deconstruction/alteration and/or abandonment, whichever occurs first. The closure samples will need to meet closure criteria set forth in OCD variance approval. The release will remain an open Environmental Issue in OCD database files.