HNH0T-190911-C-1410



Closure Report

West Red Lake Unit Water Station #001 Talon Project # 701307.120.01, *2RP-5440

Prepared For:

Lime Rock Resources 1111 Bagby St. Suite 4600 Houston, TX 77002

Prepared By:

TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

August 19, 2019

Mr. Mike Bratcher **NMOCD District 2** 811 S. 1st Street Artesia, NM 88210

Subject: Site Assessment & Closure Report WRLU Water Station #001 Eddy County, NM 2RP-5440

Dear Mr. Bratcher,

Lime Rock Resources has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our site assessment, soil analysis and closure request is contained herein.

Site Information

WRLU Water Station #001 is located approximately seven (7) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter B, Section 7, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.769121 North and - 104.314282 West. An Impact Area Map is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Gypsum lands. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Guadalupian in age and is comprised of weathered gypsum. Drainage courses in this area are well-drained.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer web site indicates that the average depth to groundwater is 82' below ground surface (BGS). See Appendix II for the referenced groundwater data.

The site is not located within 300 feet of significant watercourse or wetland. The site is not located in a FEMA Flood Zone. However, the site is located within a high potential Karst area. Therefore, the NMOCD Table 1 Closure Criteria for Soils Impacted by a Release (19.15.29.12 NMAC) for this project are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 100 mg/kg for TPH and 600 mg/kg for Total Chlorides.

Incident Description

On May 18, 2019, a 2 7/8" IPC injection line was discovered to be leaking due to corrosion. A total of 135 barrels (bbls) of produced water were released inside the previously constructed bermed area off location. Vac trucks were dispatched and recovered 115 bbls of water.

Site Assessment

On May 29, 2019, Talon mobilized personnel to begin site assessment and soil sampling activities. Grab soil samples were collected within and around the impacted area utilizing a hand auger. Results from our initial sampling event are presented in the following data table. A complete laboratory report can be found in Appendix V.

| Sample ID | Depth (ft.) | BTEX mg/kg | Benzene mg/kg | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg | Cl mg/kg |
|--------------|-------------------------|---------------|------------------|--------------|--------------|--------------|--------------------|-------------|
| | riteria IAW .12 NMAC | 50 mg/kg | 10 mg/kg | | | | 100 mg/kg | 600 mg/kg |
| 6.1 | 0 | 0.000885 | ND | 8.07 | 33.3 | ND | 41.37 | 14600 |
| S-1 | 1 | 0.000855 | ND | ND | 9.07 | ND | 9.07 | 823 |
| 6.2 | 0 | 0.000468 | ND | ND | 38.1 | ND | 38.1 | 21800 |
| S-2 | 1 | 0.000606 | ND | 14.1 | 26.3 | ND | 40.4 | 6390 |
| | 0 | 0.00115 | ND | ND | 16.1 | ND | 16.1 | 23800 |
| S-3 | 1 | ND | ND | 1800 | 2440 | 12.5 | 4252.5 | 5490 |
| S-4 | 0 | 0.255 | 0.00169 | 16.1 | 54.9 | ND | 71 | 39800 |
| C.F. | 0 | 0.00274 | ND | ND | 15.7 | ND | 15.7 | 41500 |
| S-5 | 1 | 0.00144 | 0.000699 | 14.6 | 853 | 162 | 1029.6 | 4530 |

5-29-19 Soil Samples

ND= Not Detected

Remedial Actions:

- The impacted area in the vicinity of S-2 through S-3 was excavated to a depth of 5.0-feet BGS where the excavation was met with hard rock refusal. Once the excavation was complete, a hydrovac was used and the rock surface washed off. A bentonite clay liner was then installed at the bottom of the excavation. Two feet of backfill was placed over the bentonite liner and a 40 mil-liner was then installed at the bottom and over the newly reconstructed berm. The liner was installed to capture future releases and facilitate vac truck recovery efforts.
- The impacted area in the vicinity of S-4 through S-5 was hand-excavated to a depth of 2.0-feet BGS until it was met with hard rock refusal. This area was hand-excavated due to presence of multiple flow lines and inaccessibility of heavy equipment.
- The work area was contoured and sloped to funnel potential spills into the lined and bermed collection area in order to mitigate future incidents of this nature.
- All contaminated soil was transported to Lea Land, LLC, a NMOCD approved soil waste disposal facility.
- The excavated area was backfilled with clean caliche, machine compacted and contoured to match the surrounding location.
- See Appendix IV Photographic Documentation for initial, excavation, installation and completed photos.
- A Final C-141 is attached in Appendix III.

Closure

On behalf of Lime Rock Resources, we respectfully request that no further actions be required at this site and that closure with regard to this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE /

Chris Yones^V Project Manager

David J Adkins District Manager

Attachments:

Appendix IImpact Area Map, TOPO Map, Karst Map, Locator MapAppendix IISoil Survey, Groundwater Data & FEMA Flood ZoneAppendix IIIFinal C-141Appendix IVPhotographic DocumentationAppendix VLaboratory Data



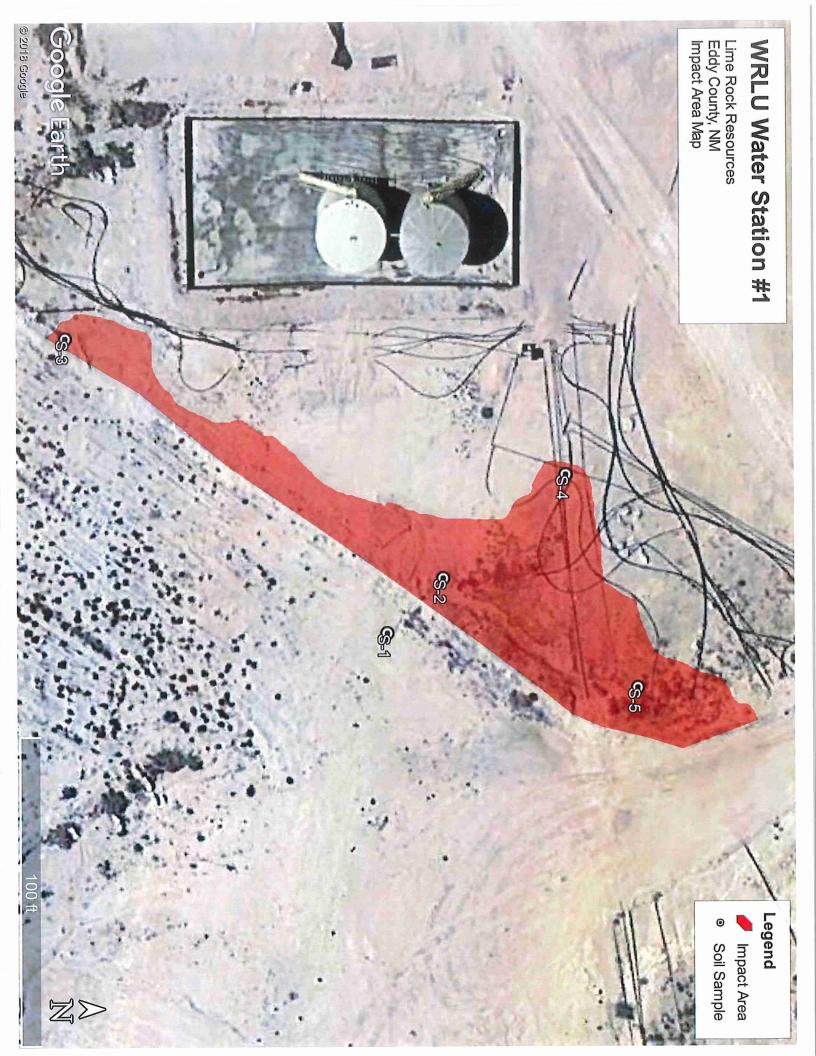
APPENDIX I

IMPACT AREA MAP

KARST MAP

ΤΟΡΟ ΜΑΡ

LOCATOR MAP





Lime Rock Resources Eddy County, NM Karst Map

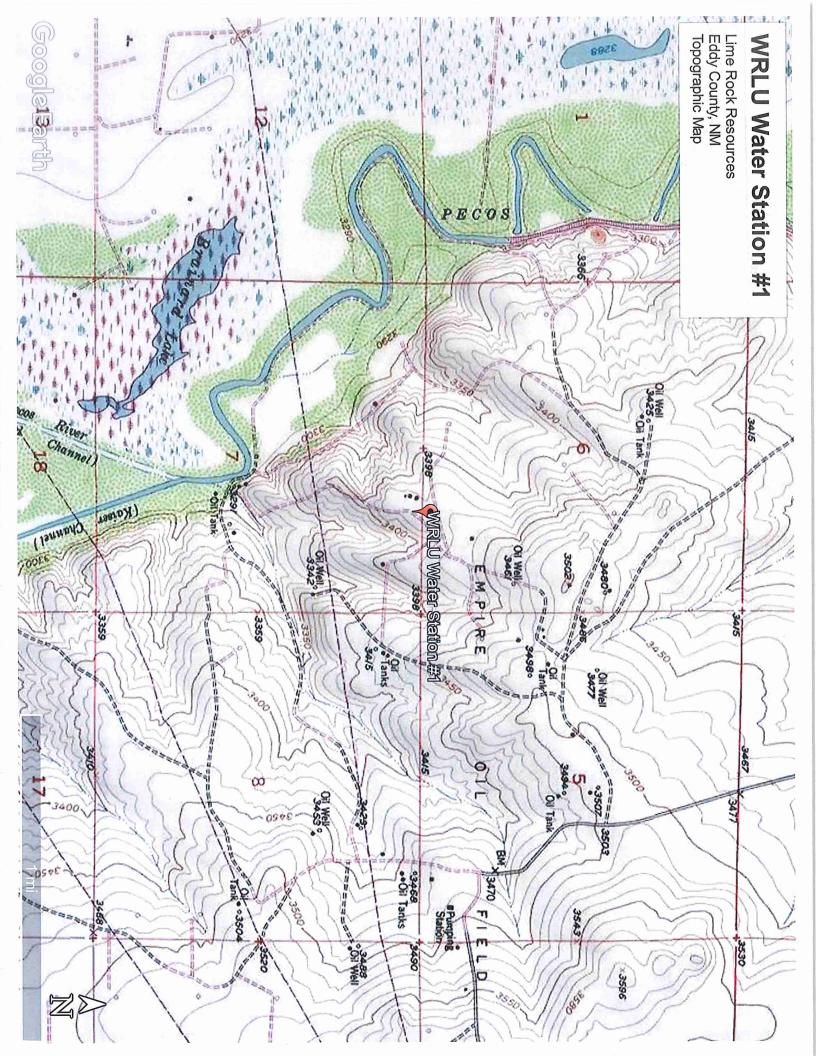
WRLU Water Station #1

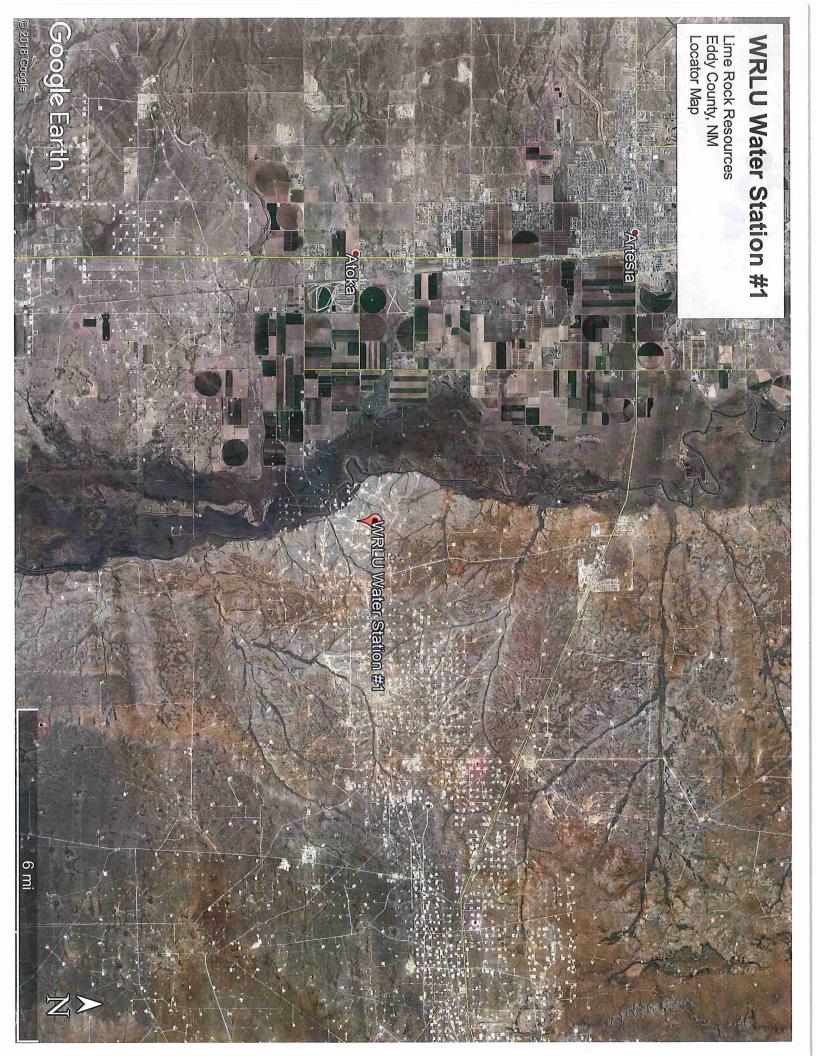
Google Earth

5 mi

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APPENDIX II

SOIL SURVEY

GROUNDWATER DATA

FEMA FLOOD ZONE

Eddy Area, New Mexico

GA—Gypsum land

Map Unit Setting

National map unit symbol: 1w4f Elevation: 1,250 to 5,000 feet Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 66 degrees F Frost-free period: 190 to 225 days Farmland classification: Not prime farmland

Map Unit Composition

Gypsum land: 100 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Gypsum Land

Setting

Landform: Ridges, hills, plains Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8s Hydric soil rating: No

Minor Components

Reeves

Percent of map unit: Ecological site: Salty Bottomland (R042XC033NM) Hydric soil rating: No

Cottonwood

Percent of map unit: Ecological site: Salty Bottomland (R042XC033NM) Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 14, Sep 12, 2018

USDA

New Mexico Office of the State Engineer Water Column/Average Depth to Water

| | | | | | | _ | | | | | | | | | |
|--|---------------------------------------|--------------------------|----------------------------|----------------|-------|--------------|------------------|--------------------|----------------------|--------------------------|------------------------------------|--------------------|------------------|--------------|----------|
| (A CLW##### in the POD suffix indicates the POD has been replaced & no longer | (R=POD been rep O=orpha | placed, | | | | | | | | | | | | | |
| serves a water right file.) | C=the fil closed) | | (| | arte | rs ar | | allest to | | 4=SE) AD83 UTM in n | neters) | (In fe | et) | | |
| utobale III. | · · · · · · · · · · · · · · · · · · · | POD | | | ary | 031 | / | | | (14 | | 1010107 | (| , | |
| | | Sub- | | Q | Q | Q | | | | | | | | W | ater |
| POD Number | Code | basin | County | 64 | 16 | 4 | Sec | Tws | Rng | Х | Y | DistanceDep | thWellDepth | Water Co | lumn |
| RA 05989 | | RA | ED | 3 | 2 | 4 | 01 | 18S | 26E | 562774 | 3626466* 😜 | 1556 | 72 | 8 | 64 |
| RA 03714 | | RA | СН | 4 | 4 | 2 | 08 | 18S | 27E | 566212 | 3625253* 😜 | 2090 | 381 | | |
| RA 03661 | | RA | ED | 3 | 2 | 3 | 32 | 17S | 27E | 565186 | 3628038* 🥘 | 2344 | 330 | 140 | 190 |
| RA 03664 | | RA | СН | 3 | 2 | 3 | 32 | 178 | 27E | 565186 | 3628038* 🍋 | 2344 | 400 | 100 | 300 |
| RA 02432 | | RA | ED | 2 | 3 | 1 | 12 | 18S | 26E | 561764 | 3625443* 😜 | 2502 | 100 | | |
| | | | | | | | | | | | Aver | age Depth to W | ater: | 82 fee | t |
| | | | | | | | | | | | | Minimum De | oth: | 8 fee | t |
| | | | | | | | | | | | | Maximum Dep | oth: | 140 fee | t |
| Record Count:5 | | | | | | | | | | | | | | | |
| UTMNAD83 Radiu | us Search | (in mete | ers): | | | | | | | | | | | | |
| Easting (X): 56 | 64224 | | Nort | hin | g (' | Y): | 362 | 5900 | | | Radius: 3000 | | | | |
| *UTM location was deriv | | | • | | | | | | | _ | | | | | |
| The data is furnished by the concerning the accuracy, | he NMOSE/ completene: | ISC and i ss, reliabi | is accepte lity, usabil | d by ity, e | / the | e re uita | cipier bility | nt with for any | the expr particul | essed unde ar purpose | erstanding that th of the data. | e OSE/ISC make | no warranties, e | expressed or | implied, |
| 8/7/19 9:21 AM | | | | | | | | | | | | WATER COL WATER | _UMN/ AVERA | AGE DEPTH | I TO |
| | | | | | | | | | | | | | | | |

National Flood Hazard Layer FIRMette





250

500

1,000

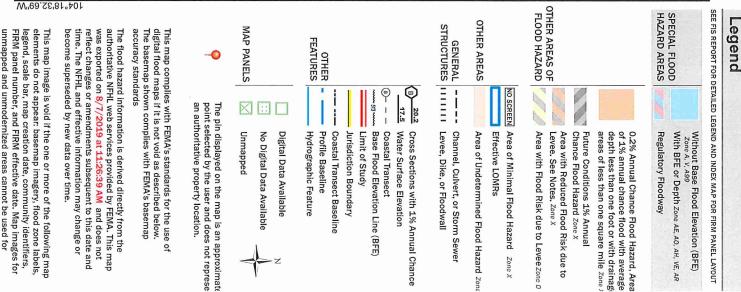
1,500

2,000

1:6,000

32°45'53.71"N

regulatory purposes.





APPENDIX III

FINAL 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 | |
|----------------|--|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party Lime Rock Resources | OGRID 277558 | |
|---|--------------------------------|--|
| Contact Name Michael Barrett | Contact Telephone 575-365-9724 | |
| Contact email mbarrett@limerockresources.com | Incident # (assigned by OCD) | |
| Contact mailing address 1111 Bagby St Ste 4600 Houston, 77002 | TX | |

Location of Release Source

Latitude 32.7691_

Longitude -104.3149 (NAD 83 in decimal degrees to 5 decimal places)

| Site Name West Red Lake Unit Water Station #1 | Site Type Production Facility |
|---|-------------------------------|
| Date Release Discovered 5-18-19 | API# (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| В | 7 | 18S | 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)

| Crude Oil | Volume Released | Volume Recovered |
|------------------|--|---|
| Produced Water | Volume Released (135 bbls) | Volume Recovered (115 bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | X Yes No |
| Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| 🗌 Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |
| | | |

Cause of Release: On 5-18-19 at the WRLU Water Station #1 a leak was found due to a split in a 2 7/8" surface IPC injection line due to corrosion. All fluids were contained inside a secondary caliche berm on location. The line was taken out of surface until repairs are made.

Form C-141 Page 2 State of New Mexico Oil Conservation Division

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

| Was this a major release as defined by 19.15.29.7(A) NMAC? | If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls |
|--|---|
| Yes No | |
| | |
| If YES, was immediate no | potice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? |
| | PE to Mike Bratcher, Victoria Venegas, Robert Hamlet-NMOCD, Jim Amos-BLM via email. |

Initial Response

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

 \boxtimes The source of the release has been stopped.

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

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

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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Mike Barrett Signature: MM Barr Title: Production Superintendent

Date: 8-12-19

email: mbarrett@limerockresources.com

Telephone: 575-365-9724

OCD Only

Received by:

Date:

State of New Mexico **Oil Conservation Division**

| Incident ID | |
|----------------|---|
| District RP | |
| Facility ID | |
| Application ID | 1 |

Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release? | <u>8</u> (ft bgs) |
|--|-------------------|
| Did this release impact groundwater or surface water? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of a wetland? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release overlying a subsurface mine? | 🗌 Ycs 🛛 No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | Yes 🗌 No |
| Are the lateral extents of the release within a 100-year floodplain? | 🗌 Yes 🛛 No |
| Did the release impact areas not on an exploration, development, production, or storage site? | 🗌 Yes 🛛 No |

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

 \boxtimes Field data

Data table of soil contaminant concentration data

Depth to water determination

- \boxtimes Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs

X Photographs including date and GIS information

 \boxtimes Topographic/Aerial maps

Laboratory data including chain of custody

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

| Form C-141 Page 4 | State of New M Oil Conservation | | Incident ID District RP Facility ID Application ID | |
|--|------------------------------------|---|---|---|
| regulations all operators an public health or the enviro failed to adequately invest | | n release notifications and perform port by the OCD does not relieve at pose a threat to groundwater, s | n corrective actions for release e the operator of liability should urface water, human health or t mpliance with any other federa Superintendent | s which may endanger l their operations have he environment. In |
| email: mbarrett@limero | ckresources.com | Telephone: 575- | 365-9724 | |
| OCD Only Received by: | | Date: | | |
| | | | | |

Form C-141 Page 5 State of New Mexico Oil Conservation Division

| Incident ID | |
|----------------|--|
| 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: Mike Barrett Title: Production Superintendent | | |
| Signature: MM Sc Date: 8-12-19 | | |
| email: <u>mbarrett@limerockresources.com</u> Telephone: 575-365-9724 | | |
| | | |
| OCD Only | | |
| Received by: Date: | | |
| Approved Approved with Attached Conditions of Approval Denied Deferral Approved | | |
| Signature: Date: | | |

Form C-141

Page 6

State of New Mexico Oil Conservation Division

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

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name: Mike Barrett Signature: N

email: mbarrett@limerockresources.com

Title: Production Superintendent

Date: 8-12-19

Telephone: 575-365-9724

OCD Only

Received by: _

Date:

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

| Closure Approved by: | Date: |
|----------------------|--------|
| Printed Name: | Title: |



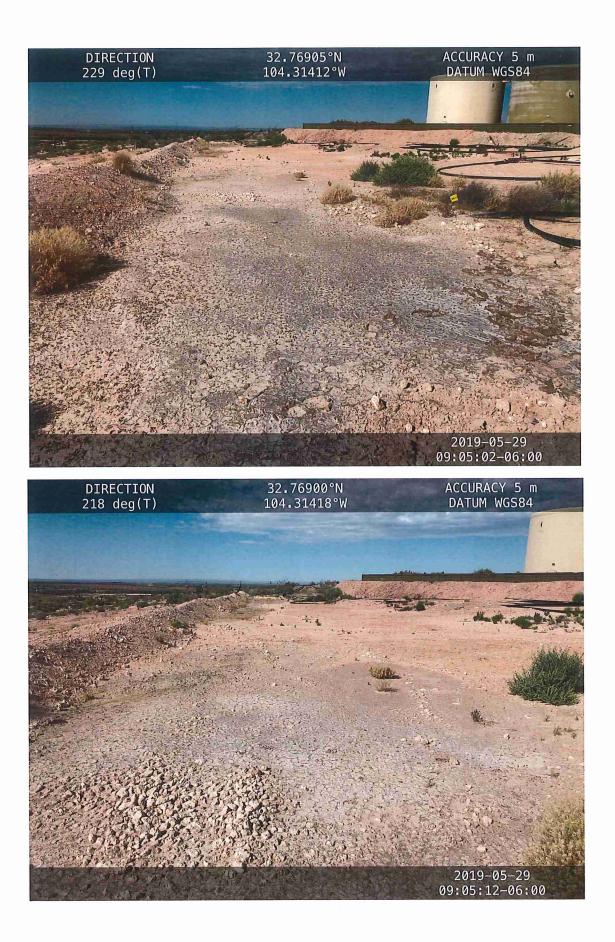
APPENDIX IV

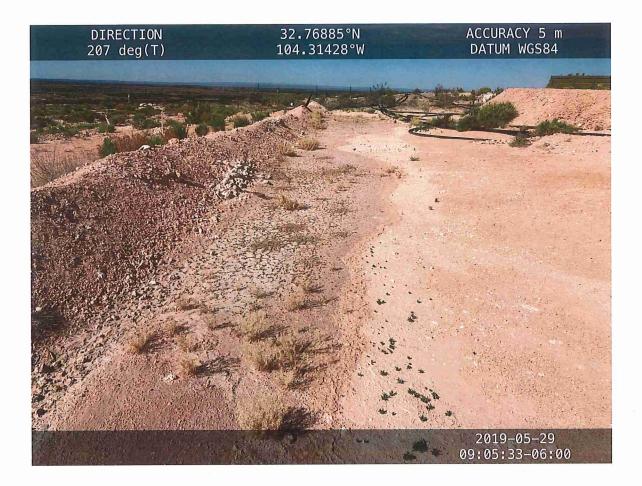
PHOTOGRAPHIC DOCUMENTATION

Spill Area









Excavation







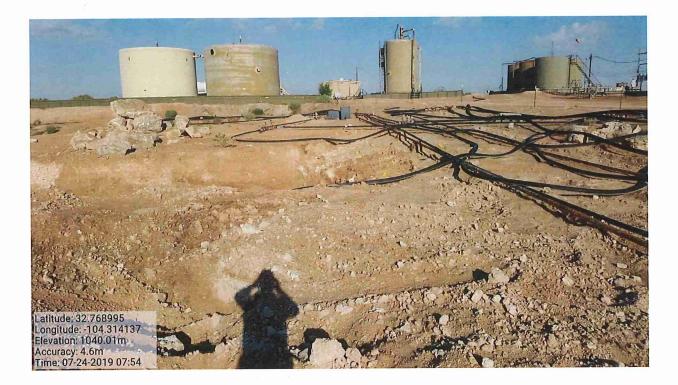


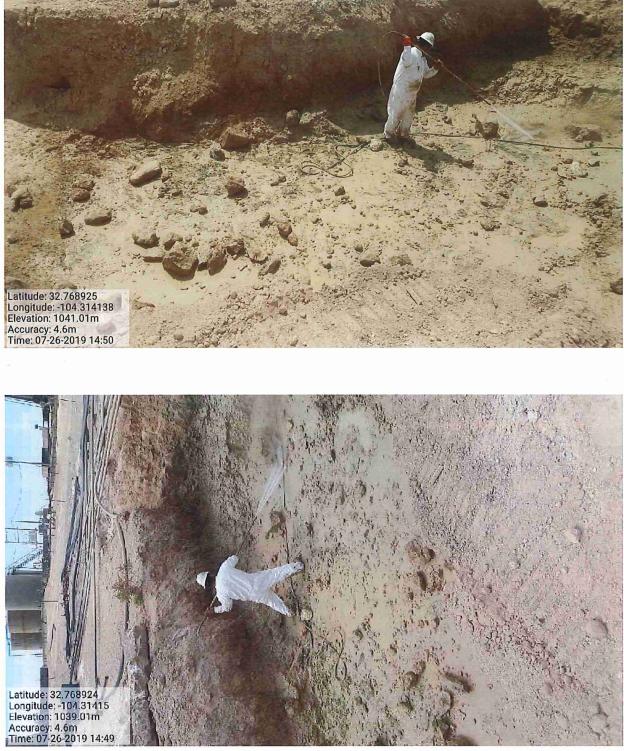




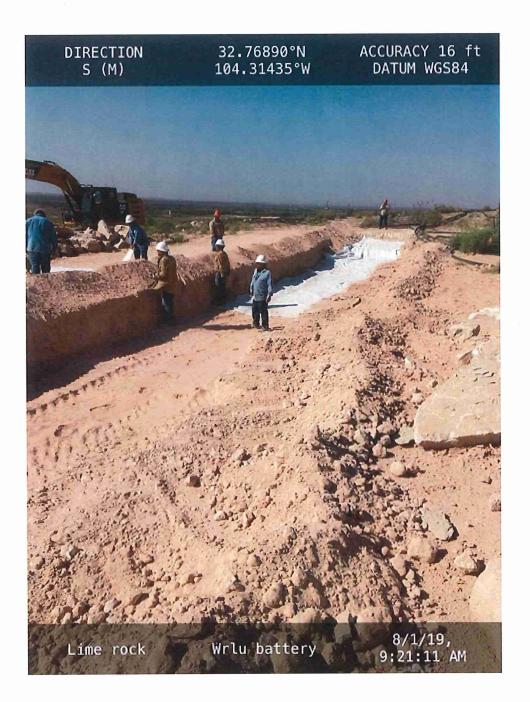
Hydrovac Pics







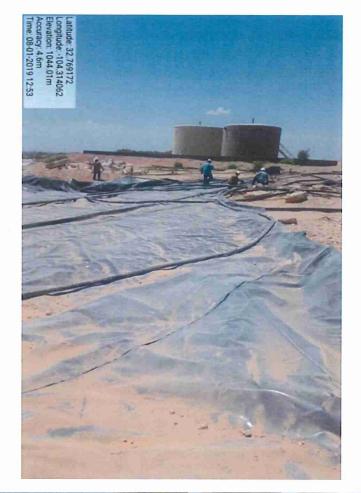
Bentonite Liner Install





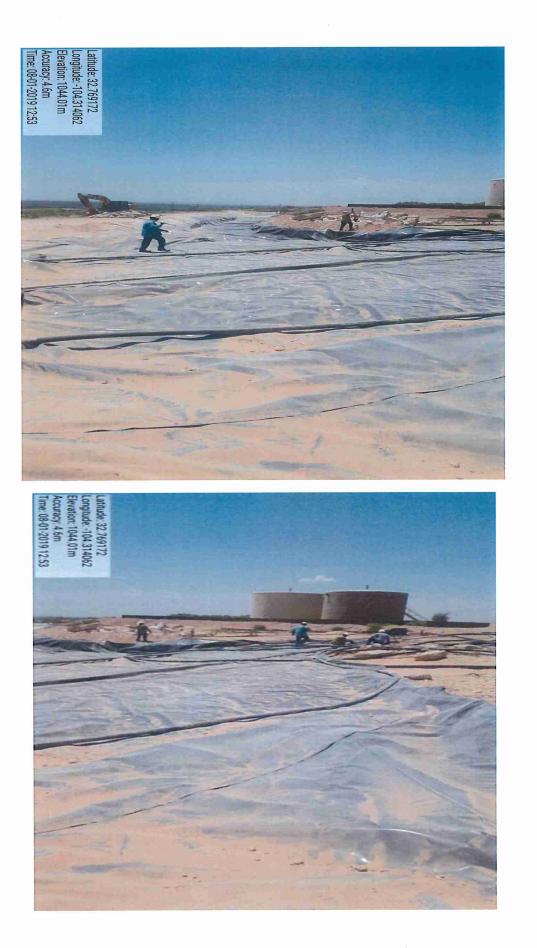
40 Mil-Liner Install

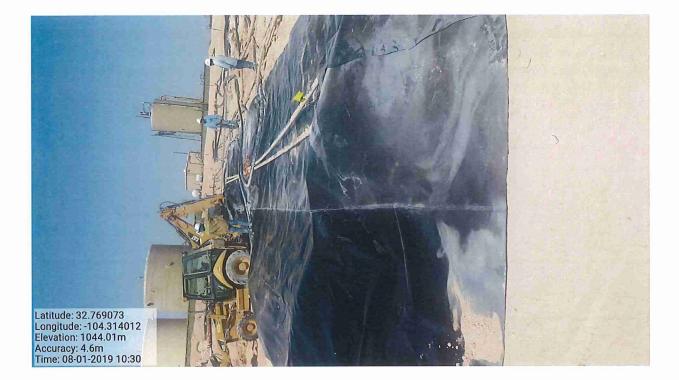




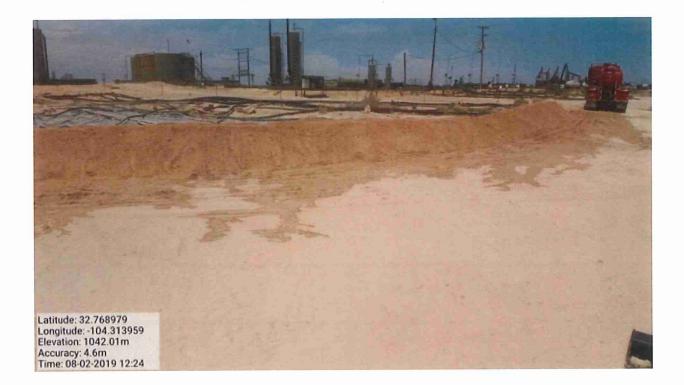






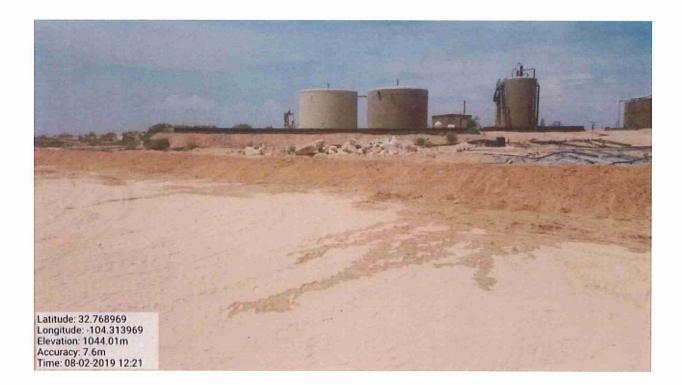


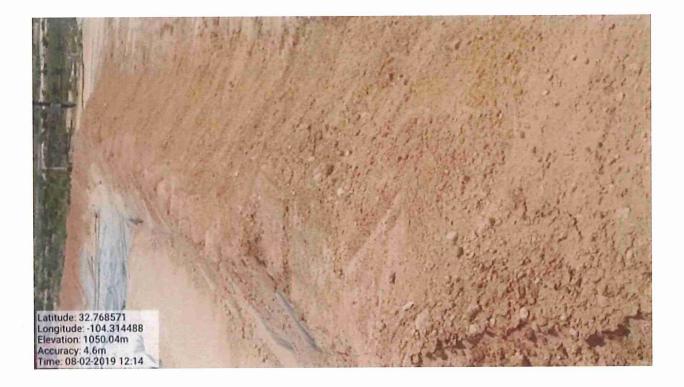




Completed









APPENDIX V

LABORATORY DATA

١

Analytical Report 625910

for Talon/LPE Co.

Project Manager: Chris Jones

WRLU Water Station #1

701307.120.01

07-JUN-19

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429), North Carolina (483)



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| SURR_QC_V62 | 18 |
| LCS / LCSD Recoveries | 21 |
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| Chain of Custody | 25 |
| Sample Receipt Conformance Report | 26 |





07-JUN-19

Project Manager: **Chris Jones Talon/LPE Co.** 921 N Bivins St Amarillo, TX 79107

Reference: XENCO Report No(s): 625910 WRLU Water Station #1 Project Address:

Chris Jones:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 625910. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 625910 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica VRAMER

Jessica Kramer Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 625910



Talon/LPE Co., Amarillo, TX

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| S-1 0' | S | 05-29-19 09:30 | | 625910-001 |
| S-1 1' | S | 05-29-19 09:40 | | 625910-002 |
| S-2 0' | S | 05-29-19 10:00 | | 625910-003 |
| S-2 1' | S | 05-29-19 10:15 | | 625910-004 |
| S-3 0' | S | 05-29-19 10:25 | | 625910-005 |
| S-3 1' | S | 05-29-19 10:30 | | 625910-006 |
| S-4 0' | S | 05-29-19 10:35 | | 625910-007 |
| S-5 0' | S | 05-29-19 11:00 | | 625910-008 |
| S-5 1' | S | 05-29-19 11:15 | | 625910-009 |



CASE NARRATIVE

Client Name: Talon/LPE Co. Project Name: WRLU Water Station #1

 Project ID:
 701307.120.01

 Work Order Number(s):
 625910

Report Date:07-JUN-19Date Received:05/30/2019

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3091572 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





625910 Talon/LPE Co., Amarillo, TX

| Sample Id: S-1 0' | | Matrix: | Soil | | Sample | Depth: | | |
|--|---|---|---|--|--|--|---|-------------------------------------|
| Lab Sample Id: 625910-001 | | Date Collected | 1: 05.29.19 09 | .30 | Date Re | eceived: 05.30.1 | 9 10.5 | 8 |
| Analytical Method: Chloride by EPA 300 | | | | | Prep M | ethod: E300P | | |
| Analyst: CHE | | % Moist: | | | Tech: | CHE | | |
| Seq Number: 3091025 | | Date Prep: 06. | .03.19 15.40 | | | | | |
| 3091025 | | Prep seq: 76 | | | | | | |
| | CAS Number | Ttop seq. 70 | | | | Analysis | | Dil Factor |
| Parameter | Crio ramber | Result | MQL | SDL | Units | Date | Flag | |
| Chloride | 16887-00-6 | 14600 | 253 | 43.4 | mg/kg | 06.04.19 06:27 | | 50 |
| Analytical Method: TPH by SW8015 Mo | i | | | | Prep M | ethod: 1005 | | |
| Analyst: ARM | | % Moist: | | | Tech: | ARM | | |
| Seq Number: 3090918 | | Date Prep: 06 | .01.19 08.00 | | | | | |
| Seq Number. 5090918 | | Prep seq: 76 | | | | | | |
| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| C | DUC(10 | 8.07 | 15.0 | 7.99 | mg/kg | 06.01.19 17:48 | J | 1 |
| Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) | PHC610 C10C28DRO | 33.3 | 15.0 | 8.11 | mg/kg | 06.01.19 17:48 | 5 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <8.11 | 15.0 | 8.11 | mg/kg | 06.01.19 17:48 | U | 1 |
| Total TPH | РНС635 | 41.4 | | 7.99 | mg/kg | 06.01.19 17:48 | | |
| | | | | | | | | |
| Surrogate | | % Recovery | | Limits | Un | its Analysis | Date | Flag |
| Surrogate 1-Chlorooctane o-Terphenyl | | % Recovery 96 95 | | Limits 70 - 1 70 - 1 | 135 % | , 0 | Date | Flag |
| 1-Chlorooctane o-Terphenyl | 2 | 96 | | 70 - 1 | 135 % 135 % | , 0 0 | | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 | 3 | 96 95 | | 70 - 1 | 135 % 135 % Prep M | 6 6 Iethod: 5030B | | ŀlag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 Analyst: SCM | 3 | 96 95 % Moist: | 06 10 15 50 | 70 - 1 | 135 % 135 % | , 0 0 | | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 | 3 | 96 95 % Moist: Date Prep: 06 | | 70 - 1 | 135 % 135 % Prep M | 6 6 Iethod: 5030B | | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 Analyst: SCM | | 96 95 % Moist: | | 70 - 1 | 135 % 135 % Prep M | iethod: 5030B SCM | | |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 Analyst: SCM | 3 CAS Number | 96 95 % Moist: Date Prep: 06 | | 70 - 1 | 135 % 135 % Prep M | 6 6 Iethod: 5030B | | Flag Dil Factor |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 Analyst: SCM Seq Number: 3091572 | | 96 95 % Moist: Date Prep: 06 Prep seq: 76 | 579454 | 70 - 1 70 - 1 | 135 % 135 % Prep M Tech: | fethod: 5030B SCM Analysis | | |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 Analyst: SCM Seq Number: 3091572 Parameter | CAS Number | 96 95 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000387 0.000473 | 0.00201 0.00201 | 70 - 1 70 - 1 SDL 0.000387 0.000458 | 135 % 135 % Prep M Tech: Units mg/kg | G G G G G G G G G G G G G G G G G G G | Flag U J | Dil Factor I 1 |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene | CAS Number 71-43-2 108-88-3 100-41-4 | 96 95 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000387 0.000473 <0.000568 | 0.00201 0.00201 0.00201 0.00201 | 70 - 1 70 - 1 SDL 0.000387 0.000458 0.000568 | 135 % 135 % Prep M Tech: Units mg/kg mg/kg | Lethod: 5030B SCM Analysis Date 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 | Flag U J U | Dil Factor 1 1 |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 96 95 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000387 0.000473 <0.000568 <0.00102 | MQL 0.00201 0.00201 0.00201 0.00201 0.00201 0.00402 | 70 - 1 70 - 1 5DL 0.000387 0.000458 0.000568 0.00102 | 135 % 135 % Prep M Tech: Units mg/kg mg/kg mg/kg | Analysis Date 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 | Flag U J U U | Dil Factor I 1 1 |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 96 95 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000387 0.000473 <0.000568 <0.00102 0.000412 | 0.00201 0.00201 0.00201 0.00201 | 70 - 1 70 - 1 5DL 0.000387 0.000458 0.000568 0.00102 0.000346 | 135 % 135 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 | Flag U J U U J | Dil Factor 1 1 |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 96 95 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000387 0.000473 <0.000568 <0.00102 | MQL 0.00201 0.00201 0.00201 0.00201 0.00201 0.00402 | 70 - 1 70 - 1 5DL 0.000387 0.000458 0.000568 0.00102 | 135 % 135 % Prep M Tech: Units mg/kg mg/kg mg/kg | Analysis Date 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 | Flag U J U U | Dil Factor I 1 1 |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 96 95 95 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000387 0.000473 <0.000568 <0.00102 0.000412 0.000412 | MQL 0.00201 0.00201 0.00201 0.00201 0.00201 0.00402 | 70 - 1 70 - 1 70 - 1 5DL 0.000387 0.000458 0.000568 0.00102 0.000346 0.000346 | 135 % 135 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 | Flag U J U J J J J | Dil Factor I 1 1 |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX Surrogate | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 96 95 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000387 0.000473 <0.000568 <0.00102 0.000412 0.000412 0.000885 | MQL 0.00201 0.00201 0.00201 0.00201 0.00201 0.00402 | 70 - 1 70 - 1 70 - 1 5DL 0.000387 0.000458 0.000568 0.00102 0.000346 0.000346 0.000346 | 135 % 135 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 | Flag U J U J J J J | Dil Factor 1 1 1 1 1 |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 80211 Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 96 95 95 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000387 0.000473 <0.000473 <0.000473 <0.000412 0.000412 0.000412 0.000885 | MQL 0.00201 0.00201 0.00201 0.00201 0.00201 0.00402 | 70 - 1 70 - 1 70 - 1 5DL 0.000387 0.000458 0.000568 0.00102 0.000346 0.000346 0.000346 0.000346 0.000346 | 135 % 135 % Prep M Tech: Units Units Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis SCM SCM Analysis Date 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 06.06.19 22:21 | Flag U J U J J J J | Dil Factor 1 1 1 1 1 |





625910

Talon/LPE Co., Amarillo, TX

| Sample Id: S-1 1' | | Matrix: | Soil | | Sample | Depth: | | |
|---|---|--|---|--|--|---|---|--------------------|
| Lab Sample Id: 625910-002 | | Date Collected | 1: 05.29.19 09 | .40 | Date Re | eceived: 05.30.1 | 9 10.5 | 8 |
| Analytical Method: Chloride by EPA 300 | | | | | Prep M | ethod: E300P | | |
| Analyst: CHE | | % Moist: | | | Tech: | CHE | | |
| Seq Number: 3091025 | | Date Prep: 06 | .03.19 15.40 | | | | | |
| 3eq 14010er. 3091025 | | - | | | | | | |
| | | Prep seq: 76 | 79070 | | | | | DU Es stan |
| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Chloride | 16887-00-6 | 823 | 25.3 | 4.34 | mg/kg | 06.04.19 06:37 | | 5 |
| Analytical Method: TPH by SW8015 Mod | | | | | Prep M | ethod: 1005 | | |
| Analyst: ARM | | % Moist: | | | Tech: | ARM | | |
| - | | Date Prep: 06 | 01 19 08 00 | | room | | | |
| Seq Number: 3090918 | | Prep seq: 76 | | | | | | |
| | CAS Number | | | 67. X | | Analysis | | Dil Factor |
| Parameter | | Result | MQL | SDL | Units | Date | Flag | |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <8.00 | 15.0 | 8.00 | mg/kg | 06.01.19 18:08 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 9.07 | 15.0 | 8.13 | mg/kg | 06.01.19 18:08 | J | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <8.13 | 15.0 | 8.13 | mg/kg | 06.01.19 18:08 | U | 1 |
| Total TPH | PHC635 | 9.07 | | 8.00 | mg/kg | 06.01.19 18:08 | J | |
| | | | | | | | | |
| Surrogate | | % Recovery | | Limits | Uni | its Analysis | Date | Flag |
| Surrogate 1-Chlorooctane | | % Recovery 93 | | Limits 70 - 1 | | · | Date | Flag |
| ů – | | - | | | 35 % | 5 | Date | Flag |
| 1-Chlorooctane o-Terphenyl | | 93 | | 70 - 1 | 35 % | | Date | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B | | 93 | | 70 - 1 | 35 % 35 % | ethod: 5030B | Date | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM | | 93 92 % Moist: | .06.19 15.50 | 70 - 1 | 35 % 35 % Prep M | | Date | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B | | 93 92 % Moist: Date Prep: 06 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM | CAS Number | 93 92 % Moist: | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag Dil Factor |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 | | 93 92 % Moist: Date Prep: 06 Prep seq: 76 | 79454 | 70 - 1 70 - 1 | 35 % 35 % Prep M Tech: | iethod: 5030B SCM Analysis | | |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter | CAS Number | 93 92 % Moist: Date Prep: 06 Prep seq: 76 Result | 79454 MQL | 70 - 1 70 - 1 SDL 0.000383 0.000453 | 35 % 35 % Prep M Tech: Units mg/kg | ethod: 5030B SCM Analysis Date | Flag | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene | CAS Number 71-43-2 108-88-3 100-41-4 | 93 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000497 <0.000561 | 79454 MQL 0.00199 0.00199 0.00199 | 70 - 1 70 - 1 SDL 0.000383 0.000453 0.000561 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 | Flag U J U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 93 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000497 <0.000561 <0.00101 | 79454 MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 5DL 0.000383 0.000453 0.000561 0.00101 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 | Flag U J U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 93 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000497 <0.000561 <0.00101 0.000358 | 79454 MQL 0.00199 0.00199 0.00199 | 70 - 1 70 - 1 5DL 0.000383 0.000453 0.000561 0.00101 0.000342 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 | Flag U J U U J | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 93 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000497 <0.000561 <0.00101 | 79454 MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 5DL 0.000383 0.000453 0.000561 0.00101 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 | Flag U J U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 93 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000497 <0.000561 <0.00101 0.000358 0.000358 | 79454 MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 8DL 0.000383 0.000453 0.000561 0.00101 0.000342 0.000342 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 | Flag U J U U J J J | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 93 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000497 <0.000561 <0.00101 0.000358 0.000358 | 79454 MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 8DL 0.000383 0.000453 0.000561 0.00101 0.000342 0.000342 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 | Flag U J U J J J J | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 93 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000497 <0.000561 <0.00101 0.000358 0.000358 0.000855 | 79454 MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 70 - 1 5DL 0.000383 0.000453 0.000561 0.00101 0.000342 0.000342 0.000342 | 35 % 35 % Prep M Tech: Units Units mg/kg | Analysis SCM Analysis Date 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 06.06.19 22:40 | Flag U J U J J J J | Dil Factor |





625910

Talon/LPE Co., Amarillo, TX

| Sample Id: S-2 0' | | Matrix: | Soil | | Sample | Depth: | | |
|---|---|---|--|--|--|--|---|--------------------|
| Lab Sample Id: 625910-003 | | Date Collecte | d: 05.29.19 10 | 0.00 | Date Re | eceived: 05.30.1 | 9 10.5 | 8 |
| Analytical Method: Chloride by EPA 300 | | | | | Prep M | ethod: E300P | | |
| Analyst: CHE | | % Moist: | | | Tech: | CHE | | |
| Seq Number: 3091025 | | Date Prep: 06 | .03.19 15.40 | | | | | |
| | | Prep seq: 76 | 79076 | | | | | |
| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Chloride | 16887-00-6 | 21800 | 253 | 43.4 | mg/kg | 06.04.19 06:48 | | 50 |
| Analytical Method: TPH by SW8015 Moc | | | | | Prep M | ethod: 1005 | | |
| 2 | L | % Moist: | | | Tech: | ARM | | |
| Analyst: ARM | | | 01 10 00 00 | | Tech: | ARIVI | | |
| Seq Number: 3090918 | | Date Prep: 06 | | | | | | |
| | | Prep seq: 76 | 79064 | | | | | |
| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <7.99 | 15.0 | 7.99 | mg/kg | 06.01.19 18:28 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 38.1 | 15.0 | 8.12 | mg/kg | 06.01.19 18:28 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <8.12 | 15.0 | 8.12 | mg/kg | 06.01.19 18:28 | U | 1 |
| Total TPH | PHC635 | 38.1 | | 7.99 | mg/kg | 06.01.19 18:28 | | |
| | | | | | | | | |
| Surrogate | | % Recovery | | Limits | Uni | its Analysis | Date | Flag |
| Surrogate 1-Chlorooctane | | 92 | | 70 - 1 | .35 % | | Date | Flag |
| _ | | • | | | .35 % | | Date | Flag |
| 1-Chlorooctane o-Terphenyl | | 92 | | 70 - 1 | 35 % 35 % | 5 | Date | Flag |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E | | 92 92 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM | | 92 92 % Moist: | 06 10 15 50 | 70 - 1 | 35 % 35 % | 5 | Date | Flag |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E | i - | 92 92 % Moist: Date Prep: 06 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM | 1 | 92 92 % Moist: | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM | CAS Number | 92 92 % Moist: Date Prep: 06 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 | | 92 92 % Moist: Date Prep: 06 Prep seq: 76 | 579454 | 70 - 1 70 - 1 | 35 % 35 % Prep M Tech: | iethod: 5030B SCM Analysis | | |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter | CAS Number 71-43-2 108-88-3 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000468 | 0.00199 0.00199 | 70 - 1 70 - 1 SDL 0.000383 0.000454 | 35 % 35 % Prep M Tech: Units mg/kg | Tethod: 5030B SCM Analysis Date 06.06.19 22:59 06.06.19 22:59 | Flag U J | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene | CAS Number 71-43-2 108-88-3 100-41-4 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000468 <0.000563 | MQL 0.00199 0.00199 0.00199 | 70 - 1 70 - 1 SDL 0.000383 0.000454 0.000563 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 | Flag U J U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000468 <0.000563 <0.00101 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 SDL 0.000383 0.000454 0.000563 0.00101 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 | Flag U J U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000468 <0.000563 <0.00101 <0.000343 | MQL 0.00199 0.00199 0.00199 | 70 - 1 70 - 1 5DL 0.000383 0.000454 0.000563 0.00101 0.000343 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 | Flag U J U U U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000468 <0.000563 <0.00101 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 SDL 0.000383 0.000454 0.000563 0.00101 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 | Flag U J U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000468 <0.000563 <0.00101 <0.000343 0.000343 0.000468 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 70 - 1 5DL 0.000383 0.000454 0.000563 0.00101 0.000343 0.000343 0.000343 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 | Flag U J U U U U J | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000468 <0.000563 <0.00101 <0.000343 <0.000343 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 5DL 0.000383 0.000454 0.000563 0.00101 0.000343 0.000343 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 | Flag U J U U U U J | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000468 <0.000563 <0.00101 <0.000343 0.000343 0.000468 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 70 - 1 5DL 0.000383 0.000454 0.000563 0.00101 0.000343 0.000343 0.000343 | 35 % 35 % Prep M Tech: Units Units mg/kg m | Analysis SCM SCM 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 06.06.19 22:59 | Flag U J U U U U J | Dil Factor |





625910

Talon/LPE Co., Amarillo, TX

| Sample Id: S-2 1' | | Matrix: | Soil | | Sample | Depth: | | |
|---|---|---|--|--|--|---|---|--------------------|
| Lab Sample Id: 625910-004 | | Date Collected | d: 05.29.19 10 | .15 | Date Re | eceived: 05.30.1 | 9 10.5 | 8 |
| Analytical Method: Chloride by EPA 300 | | | | | Prep M | ethod: E300P | | |
| Analyst: CHE | | % Moist: | | | Tech: | CHE | | |
| Seq Number: 3091025 | | Date Prep: 06 | .03.19 15.40 | | | | | |
| Seq 1401061. 5091025 | | Prep seq: 76 | | | | | | |
| | | Prep seq: 70 | /90/0 | | | | | |
| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Chloride | 16887-00-6 | 6390 | 49.7 | 8.53 | mg/kg | 06.04.19 06:58 | | 10 |
| Analytical Method: TPH by SW8015 Mod | | | | | Prep M | ethod: 1005 | | |
| Analyst: ARM | | % Moist: | | | Tech: | ARM | | |
| • | | Date Prep: 06 | 01 19 08 00 | | | | | |
| Seq Number: 3090918 | | - | | | | | | |
| | | Prep seq: 76 | /9064 | | | | | |
| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 14.1 | 15.0 | 7.99 | mg/kg | 06.01.19 18:47 | J | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 26.3 | 15.0 | 8.12 | mg/kg | 06.01.19 18:47 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <8.12 | 15.0 | 8.12 | mg/kg | 06.01.19 18:47 | U | 1 |
| Total TPH | PHC635 | 40.4 | | 7.99 | mg/kg | 06.01.19 18:47 | | |
| | | | | | | | | |
| | | 0/ D | | ¥ 1 | ¥1 | te Anolusia | Data | Flog |
| Surrogate | | % Recovery | | Limits | Uni | • | Date | Flag |
| 1-Chlorooctane | | 94 | | 70 - 1 | 35 % |) | Date | Flag |
| - | | - | | | 35 % |) | Date | Flag |
| 1-Chlorooctane o-Terphenyl | | 94 | | 70 - 1 | 35 % | 5 | Date | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B | | 94 | | 70 - 1 | 35 % 35 % | 5 | Date | Flag |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM | | 94 93 % Moist: | 5.06.19 15.50 | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B | | 94 93 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM | CAS Number | 94 93 % Moist: Date Prep: 06 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag Dil Factor |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 | | 94 93 % Moist: Date Prep: 06 Prep seq: 76 | 579454 | 70 - 1 70 - 1 | 35 % 35 % Prep M Tech: | ethod: 5030B SCM Analysis | | |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter | CAS Number 71-43-2 108-88-3 | 94 93 % Moist: Date Prep: 06 Prep seq: 76 Result | 0.00199 0.00199 | 70 - 1 70 - 1 SDL 0.000383 0.000453 | 35 % 35 % Prep M Tech: Units | ethod: 5030B SCM Analysis Date 06.06.19 23:18 06.06.19 23:18 | Flag U J | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene | CAS Number 71-43-2 108-88-3 100-41-4 | 94 93 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000606 <0.000561 | 0.00199 0.00199 0.00199 | 70 - 1 70 - 1 SDL 0.000383 0.000453 0.000561 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 | Flag U J U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 94 93 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000606 <0.000561 <0.00101 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 5DL 0.000383 0.000453 0.000561 0.00101 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 | Flag U J U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 94 93 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000606 <0.000561 <0.00101 <0.000342 | 0.00199 0.00199 0.00199 | 70 - 1 70 - 1 5DL 0.000383 0.000453 0.000561 0.00101 0.000342 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 | Flag U J U U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 94 93 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000606 <0.000561 <0.00101 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 5DL 0.000383 0.000453 0.000561 0.00101 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 | Flag U J U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 94 93 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000606 <0.00101 <0.000342 <0.000342 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 8DL 0.000383 0.000453 0.000561 0.00101 0.000342 0.000342 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 | Flag U J U U U U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 94 93 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000606 <0.00101 <0.000342 <0.000342 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 8DL 0.000383 0.000453 0.000561 0.00101 0.000342 0.000342 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 | Flag U J U U U U J | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 94 93 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 0.000606 <0.000561 <0.00101 <0.000342 <0.000342 0.000606 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 8DL 0.000383 0.000453 0.000561 0.00101 0.000342 0.000342 0.000342 | 35 % 35 % Prep M Tech: Units Units mg/kg | Analysis SCM Analysis Date 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 06.06.19 23:18 | Flag U J U U U U J | Dil Factor |





625910

Talon/LPE Co., Amarillo, TX

| Sample Id: | S-3 0' | | Matrix: | Soil | | Sample | Depth: | | |
|---|---|---|---|---|--|--|---|---|--------------------|
| Lab Sample Id | : 625910-005 | | Date Collected | d: 05.29.19 10 | .25 | Date Re | eceived: 05.30.1 | 9 10.5 | 8 |
| Analytical Me | thod: Chloride by EPA 300 | | | | | Prep M | ethod: E300P | | |
| Analyst: | CHE | | % Moist: | | | Tech: | CHE | | |
| Seq Number: | 3091025 | | Date Prep: 06 | .03.19 15.40 | | | | | |
| Seq Number. | 5091025 | | Prep seq: 76 | | | | | | |
| | | | Prep seq: 70 | /90/0 | | | | | |
| Parameter | r | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Chloride | | 16887-00-6 | 23800 | 248 | 42.5 | mg/kg | 06.04.19 07:40 | | 50 |
| Analytical Ma | the de TDII has CW2015 Med | | | | | Prep M | ethod: 1005 | | |
| - | thod: TPH by SW8015 Mod | | 0/ 3.4- :-+- | | | - | | | |
| Analyst: | ARM | | % Moist: | | | Tech: | ARM | | |
| Seq Number: | 3090918 | | Date Prep: 06 | | | | | | |
| | | | Prep seq: 76 | 79064 | | | | | |
| Paramete | r | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Gasoline R | ange Hydrocarbons (GRO) | PHC610 | <7.98 | 15.0 | 7.98 | mg/kg | 06.01.19 19:07 | U | 1 |
| Diesel Ran | ge Organics (DRO) | C10C28DRO | 16.1 | 15.0 | 8.10 | mg/kg | 06.01.19 19:07 | | 1 |
| | ange Hydrocarbons (MRO) | PHCG2835 | <8.10 | 15.0 | 8.10 | mg/kg | 06.01.19 19:07 | U | 1 |
| Total TPH | | PHC635 | 16.1 | | 7.98 | mg/kg | 06.01.19 19:07 | | |
| | | | | | | | | | |
| Surrogate | | | % Recovery | | Limits | Uni | ts Analysis | Date | Flag |
| Surrogate | | | % Recovery 93 | | Limits 70 - 1 | | • | Date | Flag |
| - | stane | | - | | | 35 % | , | Date | Flag |
| 1-Chlorood | stane | | 93 | | 70 - 1 | 35 % | , | Date | Flag |
| 1-Chlorooc o-Terpheny | stane | | 93 | | 70 - 1 | 35 % | | Date | Flag |
| 1-Chlorooc o-Terpheny Analytical Me | etane yl ethod: BTEX by EPA 8021B | | 93 | | 70 - 1 | 35 % 35 % | | Date | Flag |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: | stane yl ethod: BTEX by EPA 8021B SCM | | 93 92 % Moist: | .06.19 15.50 | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| 1-Chlorooc o-Terpheny Analytical Me | etane yl ethod: BTEX by EPA 8021B | | 93 92 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: | etane yl ethod: BTEX by EPA 8021B SCM 3091572 | CAS Number | 93 92 % Moist: Date Prep: 06 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag Dil Factor |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: Seq Number: Paramete | etane yl ethod: BTEX by EPA 8021B SCM 3091572 | CAS Number 71-43-2 | 93 92 % Moist: Date Prep: 06 Prep seq: 76 | 79454 | 70 - 1 70 - 1 | 35 % 35 % Prep M Tech: Units | ethod: 5030B SCM Analysis | | |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: Seq Number: | etane yl ethod: BTEX by EPA 8021B SCM 3091572 | | 93 92 % Moist: Date Prep: 06 Prep seq: 76 Result | 79454 MQL | 70 - 1 70 - 1 SDL | 35 % 35 % Prep M Tech: | ethod: 5030B SCM Analysis Date | Flag | Dil Factor |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene | etane yl ethod: BTEX by EPA 8021B SCM 3091572 r | 71-43-2 108-88-3 100-41-4 | 93 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000388 0.000665 <0.000569 | 79454 MQL 0.00202 0.00202 0.00202 | 70 - 1 70 - 1 SDL 0.000388 0.000459 0.000569 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 | Flag U J U | Dil Factor |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene Toluene Ethylbenze m,p-Xylen | etane yl ethod: BTEX by EPA 8021B SCM 3091572 r | 71-43-2 108-88-3 100-41-4 179601-23-1 | 93 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000388 0.000665 <0.000569 <0.00102 | 79454 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 | 70 - 1 70 - 1 SDL 0.000388 0.000459 0.000569 0.00102 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 | Flag U J U U | Dil Factor |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene Toluene Ethylbenze m,p-Xylene o-Xylene | etane yl ethod: BTEX by EPA 8021B SCM 3091572 r me es | 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 93 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000388 0.000665 <0.000569 <0.00102 0.000484 | 79454 MQL 0.00202 0.00202 0.00202 | 70 - 1 70 - 1 5DL 0.000388 0.000459 0.000569 0.00102 0.000347 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 | Flag U J U J J | Dil Factor |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene Toluene Ethylbenze m,p-Xylene o-Xylene Total Xyle | ettane yl ethod: BTEX by EPA 8021B SCM 3091572 r me es enes | 71-43-2 108-88-3 100-41-4 179601-23-1 | 93 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000388 0.000665 <0.000569 <0.00102 0.000484 0.000484 | 79454 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 | 70 - 1 70 - 1 8DL 0.000388 0.000459 0.000569 0.00102 0.000347 0.000347 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 | Flag U J U J J J | Dil Factor |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene Toluene Ethylbenze m,p-Xylene o-Xylene | ettane yl ethod: BTEX by EPA 8021B SCM 3091572 r me es enes | 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 93 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000388 0.000665 <0.000569 <0.00102 0.000484 | 79454 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 | 70 - 1 70 - 1 5DL 0.000388 0.000459 0.000569 0.00102 0.000347 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 | Flag U J U J J | Dil Factor |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene Toluene Ethylbenze m,p-Xylene o-Xylene Total Xyle | ettane yl ethod: BTEX by EPA 8021B SCM 3091572 r me es enes EX | 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 93 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000388 0.000665 <0.000569 <0.00102 0.000484 0.000484 | 79454 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 | 70 - 1 70 - 1 8DL 0.000388 0.000459 0.000569 0.00102 0.000347 0.000347 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 | Flag U J U J J J J | Dil Factor |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene Toluene Ethylbenze m,p-Xylene Total Xyle Total BTE | ethod: BTEX by EPA 8021B SCM 3091572 r ene es enes EX | 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 93 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000388 0.000665 <0.00102 0.000484 0.000115 | 79454 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 | 70 - 1 70 - 1 8DL 0.000388 0.000459 0.000569 0.00102 0.000347 0.000347 0.000347 | 35 % 35 % Prep M Tech: Units Units mg/kg m | ethod: 5030B SCM Analysis Date 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 06.07.19 00:32 | Flag U J U J J J J | Dil Factor |





625910

Talon/LPE Co., Amarillo, TX

| Sample Id: S-3 1' | | Matrix: | Soil | | Sample | Depth: | | |
|---|---|--|--|--|--|---|---|--------------------|
| Lab Sample Id: 625910-006 | | Date Collected | 1: 05.29.19 10 | .30 | Date Re | ceived: 05.30.1 | 9 10.5 | 8 |
| Analytical Method: Chloride by EPA 300 | | | | | Prep Mo | ethod: E300P | | |
| Analyst: CHE | | % Moist: | | | Tech: | CHE | | |
| Seq Number: 3091025 | | Date Prep: 06 | .03.19 15.40 | | | | | |
| Seq Transcere Sostoss | | Prep seq: 76 | 79076 | | | | | |
| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Chloride | 16887-00-6 | 5490 | 100 | 17.2 | mg/kg | 06.04.19 07:50 | | 20 |
| Analytical Method: TPH by SW8015 Mod | | | | | Prep M | ethod: 1005 | | |
| | | % Moist: | | | Tech: | ARM | | |
| Analyst: ARM | | Date Prep: 06 | 01 19 08 00 | | 10011. | 711(1)1 | | |
| Seq Number: 3090918 | | | 79064 | | | | | |
| | CAS Number | 1 1 | | SDI | Unito | Analysis | Flag | Dil Factor |
| Parameter | | Result | MQL | SDL | Units | Date | riag | |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 1800 | 15.0 | 7.99 | mg/kg | 06.01.19 19:27 | | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 2440 | 15.0 | 8.11 | mg/kg | 06.01.19 19:27 | Ŧ | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 12.5 4250 | 15.0 | 8.11 7.99 | mg/kg mg/kg | 06.01.19 19:27 06.01.19 19:27 | J | 1 |
| Total TPH | PHC635 | 4250 | | 1.99 | mg/kg | 00.01.19 19.27 | | |
| | | | | | | | | |
| Surrogate | | % Recovery | | Limits | Uni | ts Analysis | Date | Flag |
| Surrogate 1-Chlorooctane | | 126 | | 70 - 1 | 35 % | , | Date | Flag |
| - | | - | | | 35 % | , | Date | Flag |
| 1-Chlorooctane o-Terphenyl | | 126 | | 70 - 1 | 35 % 35 % | | Date | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B | | 126 | | 70 - 1 | 35 % | | Date | Flag |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM | | 126 106 % Moist: | 5.06.19 15.50 | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B | | 126 106 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM | CAS Number | 126 106 % Moist: Date Prep: 06 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 | | 126 106 % Moist: Date Prep: 06 Prep seq: 76 | 579454 | 70 - 1 70 - 1 | 35 % 35 % Prep M Tech: | ethod: 5030B SCM Analysis Date 06.07.19 00:51 | Flag | c |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene | CAS Number | 126 106 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 <0.000454 | 0.00199 0.00199 | 70 - 1 70 - 1 SDL 0.000383 0.000454 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 00:51 06.07.19 00:51 | Flag U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene | CAS Number 71-43-2 108-88-3 100-41-4 | 126 106 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 <0.000454 <0.000563 | 0.00199 0.00199 0.00199 | 70 - 1 70 - 1 SDL 0.000383 0.000454 0.000563 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 | Flag U U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 126 106 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 <0.000454 <0.000563 <0.00101 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 5DL 0.000383 0.000454 0.000563 0.00101 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 | Flag U U U U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 126 106 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 <0.000454 <0.000563 <0.00101 <0.000343 | 0.00199 0.00199 0.00199 | 70 - 1 70 - 1 5DL 0.000383 0.000454 0.000563 0.00101 0.000343 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 | Flag U U U U U U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 126 106 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 <0.000454 <0.000563 <0.00101 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 5DL 0.000383 0.000454 0.000563 0.00101 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 | Flag U U U U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 126 106 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 <0.000454 <0.000563 <0.00101 <0.000343 <0.000343 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 5DL 0.000383 0.000454 0.000563 0.00101 0.000343 0.000343 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 | Flag U U U U U U U U U | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 126 106 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 <0.000454 <0.000563 <0.00101 <0.000343 <0.000343 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 5DL 0.000383 0.000454 0.000563 0.00101 0.000343 0.000343 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 | Flag | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021B Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 126 106 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000383 <0.000454 <0.000563 <0.00101 <0.000343 <0.000343 <0.000343 | MQL 0.00199 0.00199 0.00199 0.00199 0.00398 | 70 - 1 70 - 1 8DL 0.000383 0.000454 0.000563 0.00101 0.000343 0.000343 0.000343 | 35 % 35 % Prep M Tech: Units Units mg/kg m | ethod: 5030B SCM Analysis Date 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 06.07.19 00:51 | Flag | Dil Factor |





625910

Talon/LPE Co., Amarillo, TX

| Sample Id: S-4 0' | | Matrix: | Soil | | Sample | Depth: | | |
|--|---|---|--|--|--|--|-----------|-------------------------------------|
| Lab Sample Id: 625910-007 | | Date Collected | 1: 05.29.19 10 | .35 | Date Re | eceived: 05.30.1 | 9 10.5 | 8 |
| Analytical Method: Chloride by EPA 300 | | | | | Prep M | ethod: E300P | | |
| Analyst: CHE | | % Moist: | | | Tech: | CHE | | |
| Seq Number: 3091025 | | Date Prep: 06. | .03.19 15.40 | | | | | |
| Seq Number. 5091025 | | Prep seq: 76' | | | | | | |
| | | Prep seq: 70 | /90/0 | | | | | |
| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Chloride | 16887-00-6 | 39800 | 248 | 42.6 | mg/kg | 06.04.19 08:22 | | 50 |
| Analytical Method: TPH by SW8015 Mod | | | | | Prep M | ethod: 1005 | | |
| • | | % Moist: | | | Tech: | ARM | | |
| Analyst: ARM | | | | | Tech: | AKM | | |
| Seq Number: 3090918 | | Date Prep: 06 | .01.19 08.00 | | | | | |
| | | Prep seq: 76 | 79064 | | | | | |
| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 16.1 | 15.0 | 7.99 | mg/kg | 06.01.19 19:47 | | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 54.9 | 15.0 | 8.11 | mg/kg | 06.01.19 19:47 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <8.11 | 15.0 | 8.11 | mg/kg | 06.01.19 19:47 | U | 1 |
| Total TPH | PHC635 | 71.0 | | 7.99 | mg/kg | 06.01.19 19:47 | | |
| | | | | | | | | |
| | | | | | | | | |
| Surrogate | | % Recovery | | Limits | Uni | • | Date | Flag |
| Surrogate 1-Chlorooctane | | 94 | | 70 - 1 | 35 % | 5 | Date | Flag |
| _ | | • | | | 35 % | 5 | Date | Flag |
| 1-Chlorooctane o-Terphenyl | | 94 | | 70 - 1 | 35 % | | Date | Flag |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E | | 94 | | 70 - 1 | 35 % 35 % | | Date | Flag |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM | | 94 95 % Moist: | 5.06.19 15.50 | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E | | 94 95 % Moist: Date Prep: 06 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 | CAS Number | 94 95 % Moist: Date Prep: 06 Prep seq: 76 | 579454 | 70 - 1 70 - 1 | 35 % 35 % Prep M Tech: | iethod: 5030B SCM Analysis | | Flag Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM | | 94 95 % Moist: Date Prep: 06 | | 70 - 1 | 35 % 35 % Prep M | fethod: 5030B SCM | Date | J |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 | | 94 95 % Moist: Date Prep: 06 Prep seq: 76 Result 0.00169 | 0.00200 | 70 - 1 70 - 1 SDL 0.000386 | 35 % 35 % Prep M Tech: Units mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 01:10 | | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene | CAS Number 71-43-2 108-88-3 | 94 95 % Moist: Date Prep: 06 Prep seq: 76 Result 0.00169 0.234 | 0.00200 0.00200 | 70 - 1 70 - 1 SDL 0.000386 0.000457 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.07.19 01:10 06.07.19 01:10 | Flag | Dil Factor 1 1 |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene | CAS Number 71-43-2 108-88-3 100-41-4 | 94 95 % Moist: Date Prep: 06 Prep seq: 76 Result 0.00169 0.234 0.00535 | 79454 MQL 0.00200 0.00200 0.00200 | 70 - 1 70 - 1 SDL 0.000386 0.000457 0.000566 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 | Flag | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 94 95 % Moist: Date Prep: 06 Prep seq: 76 Result 0.00169 0.234 0.00535 0.00990 | 0.00200 0.00200 0.00200 0.00200 0.00200 0.00401 | 70 - 1 70 - 1 SDL 0.000386 0.000457 0.000566 0.00102 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 | Flag | Dil Factor 1 1 |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 94 95 % Moist: Date Prep: 06 Prep seq: 76 Result 0.00169 0.234 0.00535 0.00990 0.00374 | 79454 MQL 0.00200 0.00200 0.00200 | 70 - 1 70 - 1 5DL 0.000386 0.000457 0.000566 0.00102 0.000345 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 | Flag | Dil Factor 1 1 |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 94 95 % Moist: Date Prep: 06 Prep seq: 76 Result 0.00169 0.234 0.00535 0.00990 | 0.00200 0.00200 0.00200 0.00200 0.00200 0.00401 | 70 - 1 70 - 1 SDL 0.000386 0.000457 0.000566 0.00102 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 | Flag | Dil Factor 1 1 |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 94 95 % Moist: Date Prep: 06 Prep seq: 76 Result 0.00169 0.234 0.00535 0.00990 0.00374 0.0136 | 0.00200 0.00200 0.00200 0.00200 0.00200 0.00401 | 70 - 1 70 - 1 70 - 1 5DL 0.000386 0.000457 0.000566 0.00102 0.000345 0.000345 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 | Flag | Dil Factor 1 1 |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 94 95 % Moist: Date Prep: 06 Prep seq: 76 Result 0.00169 0.234 0.00535 0.00990 0.00374 0.0136 | 0.00200 0.00200 0.00200 0.00200 0.00200 0.00401 | 70 - 1 70 - 1 70 - 1 5DL 0.000386 0.000457 0.000566 0.00102 0.000345 0.000345 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | Analysis Date 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 | Flag J | Dil Factor 1 1 |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 94 95 % Moist: Date Prep: 06 Prep seq: 76 Result 0.00169 0.234 0.00535 0.00990 0.00374 0.0136 0.255 | 0.00200 0.00200 0.00200 0.00200 0.00200 0.00401 | 70 - 1 70 - 1 70 - 1 5DL 0.000386 0.000457 0.000566 0.00102 0.000345 0.000345 0.000345 | 35 % 35 % Prep M Tech: Units mg/kg | Analysis Date 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 | Flag J | Dil Factor 1 1 1 1 1 |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total Sylenes Total BTEX Surrogate | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 94 95 % Moist: Date Prep: 06 Prep seq: 76 Result 0.00169 0.234 0.00535 0.00990 0.00374 0.0136 0.255 % Recovery | 0.00200 0.00200 0.00200 0.00200 0.00200 0.00401 | 70 - 1 70 - 1 70 - 1 5DL 0.000386 0.000457 0.000566 0.00102 0.000345 0.000345 0.000345 0.000345 0.000345 0.000345 | 35 % 35 % Prep M Tech: Units Units mg/kg m | Analysis Date 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 06.07.19 01:10 | Flag J | Dil Factor 1 1 1 1 1 |



5

Certificate of Analytical Results



625910 Talon/LPE Co., Amarillo, TX

| Sample Id: S-5 0' | | Matrix: | Soil | | Sample | Depth: | | |
|---|---|--|---|--|--|---|------------------------------------|--------------------------------|
| Lab Sample Id: 625910-008 | | Date Collected | l: 05.29.19 11 | .00 | Date Re | ceived: 05.30.1 | 9 10.5 | 8 |
| Analytical Method: Chloride by EPA 300 | | | | | Prep Me | ethod: E300P | | |
| Analyst: CHE | | % Moist: | | | Tech: | CHE | | |
| 5 | | Date Prep: 06. | 03.19 15.40 | | | | | |
| Seq Number: 3091025 | | Prep seq: 767 | | | | | | |
| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Chloride | 16887-00-6 | 41500 | 250 | 42.8 | mg/kg | 06.04.19 08:32 | | 50 |
| Analytical Method: TPH by SW8015 Mod | | | | | Prep M | ethod: 1005 | | |
| • | | % Moist: | | | Tech: | ARM | | |
| Analyst: ARM | | | 01 10 00 00 | | reen. | AINW | | |
| Seq Number: 3090918 | | Date Prep: 06. | | | | | | |
| | | Prep seq: 76 | 79064 | | | | | |
| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <7.97 | 14.9 | 7.97 | mg/kg | 06.01.19 20:06 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 15.7 | 14.9 | 8.10 | mg/kg | 06.01.19 20:06 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <8.10 | 14.9 | 8.10 | mg/kg | 06.01.19 20:06 | U | 1 |
| Total TPH | PHC635 | 15.7 | | 7.97 | mg/kg | 06.01.19 20:06 | | |
| | | | | | | | | |
| Surrogate | | % Recovery | | Limits | Uni | its Analysis | Date | Flag |
| Surrogate | | % Recovery 92 | | Limits 70 - 1 | | · | Date | Flag |
| - | | - | | | 35 % | , | Date | Flag |
| 1-Chlorooctane o-Terphenyl | | 92 | | 70 - 1 | 35 % 35 % | | Date | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E | | 92 92 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| 1-Chlorooctane o-Terphenyl | i | 92 92 % Moist: | | 70 - 1 | 35 % 35 % | | Date | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E | | 92 92 % Moist: Date Prep: 06 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM | | 92 92 % Moist: | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM | CAS Number | 92 92 % Moist: Date Prep: 06 | | 70 - 1 | 35 % 35 % Prep M | ethod: 5030B | Date | Flag Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 | | 92 92 % Moist: Date Prep: 06 Prep seq: 76 | 79454 | 70 - 1 70 - 1 | 35 % 35 % Prep M Tech: | ethod: 5030B SCM Analysis | | |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter | CAS Number | 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result | 79454 MQL 0.00200 0.00200 | 70 - 1 70 - 1 SDL 0.000385 0.000456 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 01:29 06.07.19 01:29 | Flag U J | Dil Factor |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene | CAS Number 71-43-2 108-88-3 100-41-4 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000385 0.00118 0.000820 | 79454 MQL 0.00200 0.00200 0.00200 | 70 - 1 70 - 1 SDL 0.000385 0.000456 0.000565 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 | Flag U J J | Dil Factor 1 1 1 |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000385 0.00118 0.000820 <0.00101 | 79454 MQL 0.00200 0.00200 0.00200 0.00200 0.00400 | 70 - 1 70 - 1 SDL 0.000385 0.000456 0.000565 0.00101 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 | Flag U J U | Dil Factor 1 1 1 1 |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000385 0.00118 0.000820 <0.00101 0.000740 | 79454 MQL 0.00200 0.00200 0.00200 | 70 - 1 70 - 1 8DL 0.000385 0.000456 0.000565 0.00101 0.000344 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 | Flag U J U J J | Dil Factor 1 1 1 |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000385 0.00118 0.000820 <0.00101 | 79454 MQL 0.00200 0.00200 0.00200 0.00200 0.00400 | 70 - 1 70 - 1 SDL 0.000385 0.000456 0.000565 0.00101 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 | Flag U J U | Dil Factor 1 1 1 1 |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000385 0.00118 0.000820 <0.00101 0.000740 0.000740 | 79454 MQL 0.00200 0.00200 0.00200 0.00200 0.00400 | 70 - 1 70 - 1 8DL 0.000385 0.000456 0.000565 0.00101 0.000344 0.000344 | 35 % 35 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | ethod: 5030B SCM Analysis Date 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 | Flag U J U J J J | Dil Factor |
| 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total Sylenes Total BTEX Surrogate | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000385 0.00118 0.000820 <0.00101 0.000740 0.000740 0.000740 0.00274 | 79454 MQL 0.00200 0.00200 0.00200 0.00200 0.00400 | 70 - 1 70 - 1 70 - 1 5DL 0.000385 0.000456 0.000565 0.00101 0.000344 0.000344 0.000344 0.000344 Limits | 35 % 35 % Prep M Tech: Units mg/kg | Tethod: 5030B SCM SCM 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 | Flag U J U J J J | Dil Factor 1 1 1 1 |
| I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021E Analyst: SCM Seq Number: 3091572 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX | CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 92 92 92 % Moist: Date Prep: 06 Prep seq: 76 Result <0.000385 0.00118 0.000820 <0.00101 0.000740 0.000740 | 79454 MQL 0.00200 0.00200 0.00200 0.00200 0.00400 | 70 - 1 70 - 1 8DL 0.000385 0.000456 0.000565 0.00101 0.000344 0.000344 | 35 % 35 % Prep M Tech: Units Units mg/kg m | ethod: 5030B SCM Analysis Date 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 06.07.19 01:29 its Analysis | Flag U J U J J J | Dil Factor |





625910

Talon/LPE Co., Amarillo, TX

| Sample Id: | S-5 1' | | Matrix: | Soil | | Sample | Depth: | | |
|--|--|---|--|--|--|--|--|---|---------------------------|
| Lab Sample Id | : 625910-009 | | Date Collected | 1: 05.29.19 11 | .15 | Date Re | eceived: 05.30.1 | 9 10.5 | 8 |
| Analytical Me | thod: Chloride by EPA 300 | | | | | Prep M | ethod: E300P | | |
| Analyst: | CHE | | % Moist: | | | Tech: | CHE | | |
| Seq Number: | 3091025 | | Date Prep: 06. | 03.19 15.40 | | | | | |
| 1 | | | Prep seq: 76 | 79076 | | | | | |
| Parameter | r | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Chloride | | 16887-00-6 | 4530 | 49.7 | 8.53 | mg/kg | 06.04.19 11:22 | | 10 |
| Analytical Me | thod: TPH by SW8015 Mod | | | | | Prep M | ethod: 1005 | | |
| Analyst: | ARM | | % Moist: | | | Tech: | ARM | | |
| Seq Number: | 3091576 | | Date Prep: 06 | .04.19 17.00 | | | | | |
| Seq Number. | 5091570 | | Prep seq: 76 | | | | | | |
| Parameter | r | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Gasoline B | Range Hydrocarbons (GRO) | PHC610 | 14.6 | 15.0 | 7.99 | mg/kg | 06.07.19 08:51 | J | 1 |
| | ge Organics (DRO) | C10C28DRO | 853 | 15.0 | 8.11 | mg/kg | 06.07.19 08:51 | | 1 |
| | ange Hydrocarbons (MRO) | PHCG2835 | 162 | 15.0 | 8.11 | mg/kg | 06.07.19 08:51 | | 1 |
| Total TPH | [| PHC635 | 1030 | | 7.99 | mg/kg | 06.07.19 08:51 | | |
| | | | | | | | | | |
| Surrogate | | | % Recovery | | Limits | Uni | its Analysis | Date | Flag |
| Surrogate 1-Chlorooc o-Terphen | ctane | | % Recovery 90 78 | | Limits 70 - 1 70 - 1 | 135 % | Ď | Date | Flag |
| 1-Chlorood | ctane | | 90 | | 70 - 1 | 135 % 135 % | , 0 0 | | Flag |
| 1-Chlorooc o-Terpheny | ctane yl ethod: BTEX by EPA 8021B | | 90 78 | | 70 - 1 | 135 % 135 % Prep M | iethod: 5030B | | Flag |
| 1-Chlorooc o-Terpheny | ctane yl | | 90 78 % Moist: | | 70 - 1 | 135 % 135 % | , 0 0 | | Flag |
| 1-Chlorooc o-Terphen Analytical Me | ctane yl ethod: BTEX by EPA 8021B | | 90 78 % Moist: Date Prep: 06 | | 70 - 1 | 135 % 135 % Prep M | iethod: 5030B | | Flag |
| 1-Chlorood o-Terpheny Analytical Me Analyst: | ctane yl ethod: BTEX by EPA 8021B SCM | | 90 78 % Moist: | | 70 - 1 | 135 % 135 % Prep M | fethod: 5030B | | |
| 1-Chlorood o-Terpheny Analytical Me Analyst: | ctane yl ethod: BTEX by EPA 8021B SCM 3091572 | CAS Number | 90 78 % Moist: Date Prep: 06 | | 70 - 1 | 135 % 135 % Prep M | iethod: 5030B | | Flag Dil Factor |
| 1-Chlorood o-Terpheny Analytical Me Analyst: Seq Number: | ctane yl ethod: BTEX by EPA 8021B SCM 3091572 | CAS Number 71-43-2 | 90 78 % Moist: Date Prep: 06 Prep seq: 76 Result 0.000699 | 0.00200 | 70 - 1 70 - 1 SDL 0.000384 | 135 % 135 % Prep M Tech: Units mg/kg | Tethod: 5030B SCM Analysis Date 06.07.19 01:48 | Flag | Dil Factor |
| 1-Chlorood o-Terpheny Analytical Me Analyst: Seq Number: Paramete | ctane yl ethod: BTEX by EPA 8021B SCM 3091572 | 71-43-2 108-88-3 | 90 78 % Moist: Date Prep: 06 Prep seq: 76 Result 0.000699 0.000739 | 0.00200 0.00200 | 70 - 1 70 - 1 SDL 0.000384 0.000455 | 135 % 135 % Prep M Tech: Units mg/kg | Tethod: 5030B SCM Analysis Date 06.07.19 01:48 06.07.19 01:48 | Flag J J | Dil Factor |
| 1-Chlorood o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene Toluene Ethylbenze | ethod: BTEX by EPA 8021B SCM 3091572 er | 71-43-2 108-88-3 100-41-4 | 90 78 % Moist: Date Prep: 06 Prep seq: 76 Result 0.000699 0.000739 <0.000564 | 79454 MQL 0.00200 0.00200 0.00200 | 70 - 1 70 - 1 SDL 0.000384 0.000455 0.000564 | 135 % 135 % Prep M Tech: Units mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 | Flag J J U | Dil Factor |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene Toluene Ethylbenze m,p-Xylen | ethod: BTEX by EPA 8021B SCM 3091572 er | 71-43-2 108-88-3 100-41-4 179601-23-1 | 90 78 % Moist: Date Prep: 06 Prep seq: 76 Result 0.000699 0.000739 <0.000564 <0.00101 | MQL 0.00200 0.00200 0.00200 0.00200 0.00399 | 70 - 1 70 - 1 5DL 0.000384 0.000455 0.000564 0.00101 | 135 % 135 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 | Flag J J U U | Dil Factor 1 1 1 |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene Toluene Ethylbenze m,p-Xylene o-Xylene | ethod: BTEX by EPA 8021B SCM 3091572 er ene | 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 90 78 % Moist: Date Prep: 06 Prep seq: 76 Result 0.000699 0.000739 <0.000564 <0.00101 <0.000344 | 79454 MQL 0.00200 0.00200 0.00200 | 70 - 1 70 - 1 SDL 0.000384 0.000455 0.000564 | 135 % 135 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 | Flag J J U | Dil Factor |
| 1-Chlorooc o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene Toluene Ethylbenze m,p-Xylen | ethod: BTEX by EPA 8021B SCM 3091572 er ene tes enes | 71-43-2 108-88-3 100-41-4 179601-23-1 | 90 78 % Moist: Date Prep: 06 Prep seq: 76 Result 0.000699 0.000739 <0.000564 <0.00101 | MQL 0.00200 0.00200 0.00200 0.00200 0.00399 | 70 - 1 70 - 1 5DL 0.000384 0.000455 0.000564 0.00101 0.000344 | 135 % 135 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg | Tethod: 5030B SCM Analysis Date 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 | Flag J J U U U | Dil Factor 1 1 1 |
| 1-Chlorood o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene Toluene Ethylbenze m,p-Xylene o-Xylene Total Xyle Total BTH | ethod: BTEX by EPA 8021B SCM 3091572 er ene tes EX | 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 90 78 % Moist: Date Prep: 06 Prep seq: 76 Result 0.000699 0.000739 <0.000564 <0.00101 <0.000344 <0.000344 | MQL 0.00200 0.00200 0.00200 0.00200 0.00399 | 70 - 1 70 - 1 8DL 0.000384 0.000455 0.000564 0.00101 0.000344 0.000344 | 135 % 135 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg | Lethod: 5030B SCM Analysis Date 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 | Flag J J U U U J J | Dil Factor 1 1 1 |
| 1-Chlorood o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene Toluene Ethylbenze m,p-Xylene Total Xyle Total BTH Surrogate | ethod: BTEX by EPA 8021B SCM 3091572 er ene les enes EX | 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 90 78 % Moist: Date Prep: 06 Prep seq: 76 Result 0.000699 0.000739 <0.000564 <0.00101 <0.000344 <0.000344 0.00144 | MQL 0.00200 0.00200 0.00200 0.00200 0.00399 | 70 - 1 70 - 1 70 - 1 5DL 0.000384 0.000455 0.000564 0.00101 0.000344 0.000344 0.000344 0.000344 Limits | 135 % 135 % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | Iethod: 5030B SCM SCM Analysis Date 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 | Flag J J U U U J J | Dil Factor |
| 1-Chlorood o-Terpheny Analytical Me Analyst: Seq Number: Paramete Benzene Toluene Ethylbenze m,p-Xylene o-Xylene Total Xyle Total BTH Surrogate 1,4-Difluc | ethod: BTEX by EPA 8021B SCM 3091572 er ene tes EX | 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 | 90 78 % Moist: Date Prep: 06 Prep seq: 76 Result 0.000699 0.000739 <0.000564 <0.00101 <0.000344 <0.000344 0.00144 | MQL 0.00200 0.00200 0.00200 0.00200 0.00399 | 70 - 1 70 - 1 8DL 0.000384 0.000455 0.000564 0.00101 0.000344 0.000344 | 135 % 135 % Prep M Tech: Units Mg/kg | Iethod: 5030B SCM SCM Analysis Date 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 06.07.19 01:48 | Flag J J U U U J J | Dil Factor |





625910

Talon/LPE Co., Amarillo, TX

| Sample Id: 7679064-1-BLK | | Matrix: | Solid | | Sample | Depth: | | |
|--|------------|---|---------------------|------------------|-------------------------------------|--|------|------------|
| Lab Sample Id: 7679064-1-BLK | | Date Collecte | d: | | Date R | eceived: | | |
| Analytical Method: TPH by SW8015 Mod | 1 | | | | Prep M | ethod: 1005 | | |
| Analyst: ARM | | % Moist: | | | Tech: | ARM | | |
| Seq Number: 3090918 | | Date Prep: 06 | .01.19 08.00 | | | | | |
| | | Prep seq: 76 | 79064 | | | | | |
| Parameter | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <8.00 | 15.0 | 8.00 | mg/kg | 06.01.19 12:11 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <8.13 | 15.0 | 8.13 | mg/kg | 06.01.19 12:11 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <8.13 | 15.0 | 8.13 | mg/kg | 06.01.19 12:11 | U | 1 |
| Total TPH | PHC635 | <8.00 | | 8.00 | mg/kg | 06.01.19 12:11 | U | |
| Surrogate | | % Recovery | | Limits | Un | its Analysis | Date | Flag |
| | | • | | | | | | |
| 1-Chlorooctane o-Terphenyl | | 96 96 | | 70 - 1 70 - 1 | | | | |
| | | | Solid | | 135 % | | | |
| o-Terphenyl | | 96 | | | 135 % Sample | , D | | |
| o-Terphenyl Sample Id: 7679076-1-BLK | | 96 Matrix: | | | 135 % Sample | b Depth: eceived: | | |
| o-Terphenyl Sample Id: 7679076-1-BLK Lab Sample Id: 7679076-1-BLK | | 96 Matrix: | | | 135 % Sample Date R | b Depth: eceived: | | |
| o-Terphenyl Sample Id: 7679076-1-BLK Lab Sample Id: 7679076-1-BLK Analytical Method: Chloride by EPA 300 | | 96 Matrix: Date Collecte | d: | | 135 % Sample Date R Prep M | b Depth: eceived: lethod: E300P | | |
| o-Terphenyl Sample Id: 7679076-1-BLK Lab Sample Id: 7679076-1-BLK Analytical Method: Chloride by EPA 300 Analyst: CHE | | 96 Matrix: Date Collecte % Moist: | d: 5.03.19 15.40 | | 135 % Sample Date R Prep M | b Depth: eceived: lethod: E300P | | |
| o-Terphenyl Sample Id: 7679076-1-BLK Lab Sample Id: 7679076-1-BLK Analytical Method: Chloride by EPA 300 Analyst: CHE | CAS Number | 96 Matrix: Date Collecte % Moist: Date Prep: 06 | d: 5.03.19 15.40 | | 135 % Sample Date R Prep M | b Depth: eceived: lethod: E300P | Flag | Dil Factor |





625910

Talon/LPE Co., Amarillo, TX

| Sample Id: | 7679449-1-BLK | | Matrix: | Solid | | Sample | Depth: | | |
|--------------------------|--------------------------|-------------|---------------|---------------|------------------|--------|------------------|------|------------|
| Lab Sample Id | l: 7679449-1-BLK | | Date Collecte | :d: | | Date R | eceived: | | |
| Analytical Me | thod: TPH by SW8015 Mod | ł | | | | Prep M | ethod: 1005 | | |
| Analyst: | ARM | | % Moist: | | | Tech: | ARM | | |
| Seq Number: | 3091576 | | Date Prep: 06 | 5.04.19 17.00 | | | | | |
| beq Mullioer. | 5071570 | | Prep seq: 76 | | | | | | |
| Parameter | r | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Gasoline R | ange Hydrocarbons (GRO) | PHC610 | <8.00 | 15.0 | 8.00 | mg/kg | 06.07.19 00:38 | U | 1 |
| Diesel Ran | ge Organics (DRO) | C10C28DRO | <8.13 | 15.0 | 8.13 | mg/kg | 06.07.19 00:38 | U | 1 |
| Motor Oil Ra | ange Hydrocarbons (MRO) | PHCG2835 | <8.13 | 15.0 | 8.13 | mg/kg | 06.07.19 00:38 | U | 1 |
| Total TPH | | PHC635 | <8.00 | | 8.00 | mg/kg | 06.07.19 00:38 | U | |
| Surrogate | | | % Recovery | | Limits | Un | its Analysis | Date | Flag |
| 1-Chlorooc o-Terpheny | | | 99 93 | | 70 - 1 70 - 1 | | | | |
| Sample Id: | 7679454-1-BLK | | Matrix: | Solid | | Sample | e Depth: | | |
| Lab Sample Io | d: 7679454-1-BLK | | Date Collecte | ed: | | Date R | eceived: | | |
| Analytical Me | ethod: BTEX by EPA 8021E | 3 | | | | Prep M | lethod: 5030B | | |
| Analyst: | SCM | | % Moist: | | | Tech: | SCM | | |
| Seq Number: | 3091572 | | Date Prep: 06 | 5.06.19 15.50 | | | | | |
| | | | Prep seq: 76 | 579454 | | | | | |
| Paramete | :r | CAS Number | Result | MQL | SDL | Units | Analysis Date | Flag | Dil Factor |
| Benzene | | 71-43-2 | <0.000386 | 0.00201 | 0.000386 | mg/kg | 06.06.19 20:06 | U | 1 |
| Toluene | | 108-88-3 | <0.000457 | 0.00201 | 0.000457 | mg/kg | 06.06.19 20:06 | U | 1 |
| Ethylbenze | ene | 100-41-4 | <0.000567 | 0.00201 | 0.000567 | mg/kg | 06.06.19 20:06 | U | 1 |
| m,p-Xylen | es | 179601-23-1 | < 0.00102 | 0.00402 | 0.00102 | mg/kg | 06.06.19 20:06 | U | 1 |
| o-Xylene | | 95-47-6 | <0.000346 | 0.00201 | 0.000346 | mg/kg | 06.06.19 20:06 | U | 1 |
| Total Xyle | | 1330-20-7 | <0.000346 | | 0.000346 | mg/kg | 06.06.19 20:06 | υ | |
| Total BTE | v | | <0.000346 | | 0.000346 | mg/kg | 06.06.19 20:06 | U | |

| Surrogate | % Recovery | Limits | Units | Analysis Date | Flag |
|----------------------|------------|----------------------|--------|---------------|------|
| 1,4-Difluorobenzene | 87 | 70 - 130 70 - 130 | % % | | |
| 4-Bromofluorobenzene | 84 | 70 - 130 | 70 | | |



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and OA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

- RL Reporting Limit
- MDL Method Detection Limit
 SDL
 Sample Detection Limit
 LOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable

| SMP Clie | ent Sample | BLK | Method Blank | |
|----------|---|-----------|----------------------------|---------------------------------|
| BKS/LCS | S Blank Spike/Laboratory Control Sample | BKSD/LCSD | Blank Spike Duplicate/Labo | ratory Control Sample Duplicate |
| MD/SD | Method Duplicate/Sample Duplicate | MS | Matrix Spike | MSD: Matrix Spike Duplicate |

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Form 2 - Surrogate Recoveries

Project Name: WRLU Water Station #1

| ork Orders : 625910, | Sample: 7679454-1-BKS / F | 3KS Batch | - | : 701307.12 Solid | 0.01 | |
|--------------------------------------|-------------------------------|------------------------|----------------------------|-----------------------|-------------------------|-------|
| Lab Batch #: 3091572 Units: mg/kg | Date Analyzed: 06/06/19 18:26 | | ROGATE RE | | STUDY | |
| | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| | Analytes | | | [0] | | |
| 1,4-Difluorobenzene | | 0.0293 | 0.0300 | 98 | 70-130 | |
| 4-Bromofluorobenzene | | 0.0290 | 0.0300 | 97 | 70-130 | |
| Lab Batch #: 3091572 | Sample: 7679454-1-BSD / H | | | | | |
| Units: mg/kg | Date Analyzed: 06/06/19 18:47 | SUI | RROGATE RE | COVERY S | STUDY | |
| BTEX | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| | Analytes | 0.0208 | 0.0300 | 103 | 70-130 | |
| 1,4-Difluorobenzene | | 0.0308 | 0.0300 | 103 | 70-130 | |
| 4-Bromofluorobenzene | | | | | /0150 | |
| Lab Batch #: 3091572 | Sample: 626041-001 S / MS | | n: 1 Matrix: RROGATE RE | | TUDY | |
| Units: mg/kg | Date Analyzed: 06/06/19 19:07 | 501 | RRUGATE RE | | | |
| BTE? | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluorobenzene | Analytes | 0.0306 | 0.0300 | 102 | 70-130 | |
| 4-Bromofluorobenzene | | 0.0300 | 0.0300 | 102 | 70-130 | |
| | a (20041-001 SD /) | | | | | |
| Lab Batch #: 3091572 | Sample: 626041-001 SD / M | | h: 1 Matrix: RROGATE RI | | STUDY | |
| Units: mg/kg | Date Analyzed: 06/06/19 19:27 | 50. | KROGATE RI | | 1 | |
| BTE | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| | Analytes | | | [0] | | |
| 1,4-Difluorobenzene | | 0.0308 | 0.0300 | 103 | 70-130 | |
| 4-Bromofluorobenzene | | 0.0244 | 0.0300 | 81 | 70-130 | |
| Lab Batch #: 3091572 | Sample: 7679454-1-BLK / | | | | | |
| Units: mg/kg | Date Analyzed: 06/06/19 20:06 | SU | RROGATE RI | ECOVERY | STUDY | |
| BTE | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| | Analytes | | | | | |
| 1,4-Difluorobenzene | | 0.0262 | 0.0300 | 87 | 70-130 | |
| 4-Bromofluorobenzene | | 0.0253 | 0.0300 | 84 | 70-130 | |

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: WRLU Water Station #1

| ork Orders : 625910 | | | 0 | :701307.12 | 0.01 | |
|----------------------|--|------------------------|----------------------------|-----------------------|-------------------------|-------|
| Lab Batch #: 3090918 | Sample: 7679064-1-BLK / I | | | | | |
| Units: mg/kg | Date Analyzed: 06/01/19 12:11 | SUI | RROGATE RE | COVERYS | | |
| TPH | oy SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| | Analytes | | | [12] | | |
| 1-Chlorooctane | | 95.5 | 100 | 96 | 70-135 | |
| o-Terphenyl | | 47.9 | 50.0 | 96 | 70-135 | |
| Lab Batch #: 3090918 | Sample: 7679064-1-BKS / 1 | | | | | |
| Units: mg/kg | Date Analyzed: 06/01/19 12:31 | SU | RROGATE RE | COVERY S | STUDY | |
| ТРН | by SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooctane | Analytes | 124 | 100 | 124 | 70-135 | |
| o-Terphenyl | | 51.7 | 50.0 | 103 | 70-135 | |
| | | | | | | |
| Lab Batch #: 3090918 | Sample: 7679064-1-BSD / 1 | | h: 1 Matrix: RROGATE RE | | STUDY | |
| Units: mg/kg | Date Analyzed: 06/01/19 12:50 | | | | 1 1 | |
| ТРН | by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooctane | | 122 | 100 | 122 | 70-135 | |
| o-Terphenyl | | 52.3 | 50.0 | 105 | 70-135 | |
| Lab Batch #: 3090918 | Sample: 625765-001 S / MS | S Bate | h: 1 Matrix: | Soil | ········ | |
| Units: mg/kg | Date Analyzed: 06/01/19 13:30 | | RROGATE RI | COVERY | STUDY | |
| | by SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | | | [D] | | |
| 1-Chlorooctane | | 127 | 99.6 | 128 | 70-135 | |
| o-Terphenyl | | 49.7 | 49.8 | 100 | 70-135 | |
| Lab Batch #: 3090918 | Sample: 625765-001 SD / I | MSD Bate | h: 1 Matrix | Soil | | |
| Units: mg/kg | Date Analyzed: 06/01/19 13:49 | SU | RROGATE RI | ECOVERY | STUDY | |
| ТРН | by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooctane | | 113 | 99.8 | 113 | 70-135 | |
| o-Terphenyl | alle and a second and a second and a second a s | 47.4 | 49.9 | 95 | 70-135 | |

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: WRLU Water Station #1

| /ork Orders : 625910, Lab Batch #: 3091576 | Sample: 7679449-1-BLK / I | 3LK Batch | 8 |): 701307.12 ⁴ Solid | 0.01 | |
|---|-------------------------------|------------------------|------------------------|---|-------------------------|-------|
| Units: mg/kg | Date Analyzed: 06/07/19 00:38 | | RROGATE RE | | STUDY | |
| | by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooctane | | 99.4 | 100 | 99 | 70-135 | |
| o-Terphenyl | | 46.6 | 50.0 | 93 | 70-135 | |
| Lab Batch #: 3091576 | Sample: 7679449-1-BKS / I | BKS Batch | n: 1 Matrix: | Solid | | |
| Units: mg/kg | Date Analyzed: 06/07/19 01:02 | SU | RROGATE RI | ECOVERY S | STUDY | |
| ТРН І | by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooctane | | 95.3 | 100 | 95 | 70-135 | |
| o-Terphenyl | <u></u> | 49.1 | 50.0 | 98 | 70-135 | |
| Lab Batch #: 3091576 | Sample: 7679449-1-BSD / 1 | BSD Batel | n: ¹ Matrix | : Solid | | |
| Units: mg/kg | Date Analyzed: 06/07/19 01:27 | | RROGATE RI | | STUDY | |
| | by SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | | | [D] | | |
| 1-Chlorooctane | | 91.4 | 100 | 91 | 70-135 | |
| o-Terphenyl | | 48.4 | 50.0 | 97 | 70-135 | |
| Lab Batch #: 3091576 | Sample: 625896-001 S / MS | | | | | |
| Units: mg/kg | Date Analyzed: 06/07/19 02:16 | SU | RROGATE RI | ECOVERY | STUDY | |
| ТРН | by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooctane | | 85.0 | 99.9 | 85 | 70-135 | |
| o-Terphenyl | | 39.8 | 50.0 | 80 | 70-135 | |
| Lab Batch #: 3091576 | Sample: 625896-001 SD / N | MSD Bate | h: 1 Matrix | :Soil | | |
| Units: mg/kg | Date Analyzed: 06/07/19 02:40 | SU | RROGATE R | ECOVERY | STUDY | |
| ТРН | by SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooctane | 4 xmmly toy | 78.0 | 99.8 | 78 | 70-135 | |
| | | | 1 77.0 | | | |

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: WRLU Water Station #1

| Vork Order #: 625910 | | | | | | | Proj | ect ID: ´ | 701307.120 | .01 | | | |
|--|-------------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|------------|-------------------------|---------------------------|------|--|--|
| analyst: SCM | D | ate Prepar | ed: 06/06/201 | 9 | | | Date A | nalyzed: (| 6/06/2019 | | | | |
| ab Batch ID: 3091572 Sample: 7679454-1 | -BKS | S Batch #: 1 | | | | | Matrix: Solid | | | | | | |
| Jnits: mg/kg | | BLAN | K/BLANK | SPIKE / I | BLANK S | SPIKE DUP | LICATE | RECOV | ERY STUI | DΥ | | | |
| BTEX by EPA 8021B | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag | | |
| Benzene | <0.000384 | 0.0998 | 0.103 | 103 | 0.101 | 0.107 | 106 | 4 | 70-130 | 35 | 1 | | |
| Toluene | <0.000455 | 0.0998 | 0.102 | 102 | 0.101 | 0.105 | 104 | 3 | 70-130 | 35 | | | |
| Ethylbenzene | <0.000564 | 0.0998 | 0.112 | 112 | 0.101 | 0.115 | 114 | 3 | 70-130 | 35 | | | |
| m,p-Xylenes | < 0.00101 | 0.200 | 0.227 | 114 | 0.201 | 0.234 | 116 | 3 | 70-130 | 35 | | | |
| o-Xylene | <0.000344 | 0.0998 | 0.109 | 109 | 0.101 | 0.114 | 113 | 4 | 70-130 | 35 | | | |
| Analyst: CHE | D | ate Prepar | ed: 06/03/20 | 19 | 1 | | Date A | nalyzed: | 06/04/2019 | | | | |
| _ab Batch ID: 3091025 Sample: 7679076- | I-BKS | Batel | h#: 1 | | | | | Matrix: | Solid | | | | |
| Jnits: mg/kg | | BLAN | K /BLANK | SPIKE / 1 | BLANK S | SPIKE DUP | LICATE | RECOV | ERY STUI | ΟY | | | |
| Chloride by EPA 300 Analytes | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag | | |
| Chloride | <0.858 | 250 | 245 | 98 | 250 | 245 | 98 | 0 | 90-110 | 20 | | | |

Relative Percent Difference RPD = $200^{*}[(C-F)/(C+F)]$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes

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BS / BSD Recoveries



Project Name: WRLU Water Station #1

| Work Orde | r#: 625910 | | | | | | | | Proj | ect ID: | 701307.120 | .01 | |
|--------------|---------------------------------|--------------------|-------------------------------|-----------------------|---------------------------------|-----------------------------|---------------------------|---|-------------------------------|----------|-------------------------|---------------------------|------|
| Analyst: | ARM | | Date Prepared: 06/01/2019 | | | | Date Analyzed: 06/01/2019 | | | | | | |
| Lab Batch ID | D: 3090918 | Sample: 7679064-1- | 1-BKS Batch #: 1 | | | | Matrix: Solid | | | | | | |
| Units: | mg/kg | | | BLAN | K /BLANK | SPIKE / I | BLANK S | SPIKE DUP | LICATE | RECOV | ERY STUI | ŊΥ | |
| | TPH by SW8015 | Mod | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Anal | ytes Range Hydrocarbons (GRO |)) | <8.00 | 1000 | 1170 | 117 | 1000 | 1200 | 120 | 3 | 70-135 | 20 | |
| | | | | | | | | | | | | 20 | |
| Diesel Ra | ange Organics (DRO) | | <8.13 | 1000 | 1140 | 114 | 1000 | 1170 | 117 | 3 | 70-135 | 20 | L |
| Analyst: | ARM | | D | ate Prepar | ed: 06/04/20 | 19 | | | Date A | nalyzed: | 06/07/2019 | | |
| Lab Batch II | D: 3091576 | Sample: 7679449-1- | -BKS | Bate | h#: 1 | | | | | Matrix: | Solid | | |
| Units: | mg/kg | | | BLAN | K/BLANK | SPIKE / 1 | BLANK S | SPIKE DUP | LICATE | RECOV | ERY STUI | ΟY | |
| | TPH by SW8015 | Mod | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Anal | lytes | | | 1-1 | . = j | , | 1.29 | | | | | | |
| Gasoline | Range Hydrocarbons (GRO |)) | <8.00 | 1000 | 916 | 92 | 1000 | 899 | 90 | 2 | 70-135 | 20 | |
| Diesel R | ange Organics (DRO) | | <8.13 | 1000 | 918 | 92 | 1000 | 889 | 89 | 3 | 70-135 | 20 | |

Relative Percent Difference RPD = $200^{*}[(C-F)/(C+F)]$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes

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Form 3 - MS / MSD Recoveries



Project Name: WRLU Water Station #1

| Work Order # : 625910 | | | | | | Project II | b: 701307 | .120.01 | | | |
|---------------------------|-----------------------------------|----------------|--------------------------------|------------------------|----------------|--|-----------------------------|----------|-------------------------|---------------------------|------|
| Lab Batch ID: 3091572 | QC- Sample ID: | 626041- | 001 S | Ba | tch #: | l Matrix | : Soil | | | | |
| Date Analyzed: 06/06/2019 | Date Prepared: | 06/06/20 | 019 | An | alyst: S | СМ | | | | | |
| Reporting Units: mg/kg | | М | ATRIX SPIKI | E / MAT | RIX SPI | KE DUPLICA | TE RECO | OVERY | STUDY | | |
| BTEX by EPA 8021B | Parent Sample Result [A] | Spike Added | Spiked Sample Result [C] | Sample %R | Spike Added | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analytes | [A] | [B] | | [D] | [E] | | [6] | | | | |
| Benzene | 0.000466 | 0.100 | 0.0747 | 74 | 0.101 | 0.0675 | 66 | 10 | 70-130 | 35 | Х |
| Toluene | 0.000913 | 0.100 | 0.0583 | 57 | 0.101 | 0.0572 | 56 | 2 | 70-130 | 35 | X |
| Ethylbenzene | <0.000566 | 0.100 | 0.0496 | 50 | 0.101 | 0.0493 | 49 | 1 | 70-130 | 35 | Х |
| m,p-Xylencs | <0.00102 | 0.200 | 0.0970 | 49 | 0.202 | 0.0947 | 47 | 2 | 70-130 | 35 | х |
| o-Xylene | 0.000397 | 0.100 | 0.0478 | 47 | 0.101 | 0.0477 | 47 | 0 | 70-130 | 35 | Х |
| Lab Batch ID: 3091025 | QC- Sample ID: | 626108 | -001 S | Ba | tch #: | l Matrix | c: Soil | | | | |
| Date Analyzed: 06/04/2019 | Date Prepared: | 06/03/2 | 019 | An | alyst: (| CHE | | | | | |
| Reporting Units: mg/kg | | Μ | ATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| Chloride by EPA 300 | Parent Sample Result | Spike Added | Spiked Sample Result [C] | Spiked Sample %R | Spike Added | Duplicate Spiked Sample Result [F] | Spiked Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analytes | [A] | [B] | [C] | [D] | [E] | | [G] | | | | |
| Chloride | 418 | 250 | 671 | 101 | 250 | 671 | 101 | 0 | 90-110 | 20 | |
| Lab Batch ID: 3091025 | QC- Sample ID: | 626110 | -002 S | Ba | tch #: | 1 Matri: | x: Soil | | | | |
| Date Analyzed: 06/04/2019 | Date Prepared: | 06/03/2 | 019 | An | alyst: (| CHE | | | | | |
| Reporting Units: mg/kg | | Μ | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| Chloride by EPA 300 | Parent Sample Result | Spike Added | Spiked Sample Result [C] | Spiked Sample %R | Spike Added | Duplicate Spiked Sample Result [F] | Spiked Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analytes | [A] | Addea [B] | | 76R [D] | E] | Kesun [F] | [G] | | | | |
| Chloride | 4.68 | 250 | 264 | 104 | 250 | 263 | 103 | 0 | 90-110 | 20 | |

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference $RPD = 200^{\circ}[(C-F)/(C+F)]$

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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Form 3 - MS / MSD Recoveries



Project Name: WRLU Water Station #1

| Work Order # : | 625910 | | | | | | Project II |): 701307 | 7.120.01 | | | |
|-------------------------|--------------------|----------------------------|----------------|--------------------------------|------------------------|----------------|--|----------------------|----------|-------------------------|---------------------------|------|
| Lab Batch ID: | 3090918 | QC- Sample ID: | 625765- | -001 S | Ba | tch #: | l Matrix | : Soil | | | | |
| Date Analyzed: | 06/01/2019 | Date Prepared: | 06/01/2 | 019 | An | alyst: A | ARM | | | | | |
| Reporting Units: | mg/kg | | М | ATRIX SPIKI | E / MAT | RIX SPI | KE DUPLICA' | TE REC | OVERY | STUDY | | |
| r | TPH by SW8015 Mod | Parent Sample | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample | Spiked Dup. %R | RPD | Control Limits %R | Control Limits %RPD | Flag |
| | Analytes | Result [A] | Added [B] | [C] | %R [D] | Added [E] | Result [F] | %R [G] | % | %R | %RPD | |
| Gasoline Range I | Hydrocarbons (GRO) | 835 | 996 | 1740 | 91 | 998 | 1720 | 89 | 1 | 70-135 | 20 | |
| Diesel Range Or | ganics (DRO) | 1200 | 996 | 2070 | 87 | 998 | 2050 | 85 | 1 | 70-135 | 20 | |
| Lab Batch ID: | 3091576 | QC- Sample ID: | 625896 | -001 S | Ba | tch #: | 1 Matrix | c: Soil | | | | |
| Date Analyzed: | 06/07/2019 | Date Prepared: | 06/04/2 | 019 | An | alyst: A | ARM | | | | | |
| Reporting Units: | mg/kg | | Μ | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
| J | (PH by SW8015 Mod | Parent Sample Result | Spike Added | Spiked Sample Result [C] | Spiked Sample %R | Spike Added | Duplicate Spiked Sample Result [F] | Spiked Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| | Analytes | [A] | [B] | [~] | [D] | [E] | [2] | [G] | | | | |
| Gasoline Range | Hydrocarbons (GRO) | 13.5 | 999 | 816 | 80 | 998 | 788 | 78 | 3 | 70-135 | 20 | |
| Diesel Range Or | ganics (DRO) | <8.12 | 999 | 831 | 83 | 998 | 810 | 81 | 3 | 70-135 | 20 | |

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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| Pervised Date 051418 Rev. 2018. | |
|--|--|
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| | ie the way of the second secon |
| | |
| Date/Time Relinquished by: (Signature) | Relinguished by: (Signature) Received by: (Signature) |
| losses or expenses incurred by the client if such losses are due to circumstances beyond the control bmitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | of service. Sence will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. |
| lient company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions | Notice: Signature of this document and relinguishment of samples constitutes a valid purchase order from o |
| Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr II Sn U V Zn Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U 1631/245.1/7470 /7471 :Hg | Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA |
| | |
| | 5-5-1' 1115 |
| | 5-5 0' 1100 |
| | 5~4 0' 1020 1 |
| | 2-3 1' 2:01 |
| | |
| | |
| | 5-2 0' 11 1000 11 |
| | 5-11' |
| | 5-10 50:1 5/29/19 0930 1 |
| To Sample Comments | Sample Identification Matrix Sampled Sampled Depth B |
| PH The and the served by 4:30pm | Sample Custody Seals: Yes Work N/A Total Containers: 9 |
| TAT starts the day received by the | Yes Alo N/A Correction Factor: |
| | (res) No IV |
| х | Temperature (°C): $U \leq U \leq 1$ Thermometer w_{C} |
| | SAMPLE RECEIPTTemp_Blank: Yes (No) Wet Ice: Ves No |
| | Sampler's Name: Brandon Sinclair Due Date: |
| 2 5 | P.O. Number: 701307,120.01 Rush: |
| | Project Number: 701307.120,01 Routine 🛛 |
| ANALYSIS REQUEST Work Order Notes | Project Name: WRLY Water Station#1 Turn Around |
| Deliverables: EDD ADaPT C Other: | Phone: 575-746-8768 Email |
| Reporting:Level II Level III PST/UST TRRP Level IV | City, State ZIP: Artesia, NM 88210 City, State ZIP: |
| State of Project: | Address: 408 W Texas Ave Address |
| Program: UST/PST PRP Brownfields RRC Superfund | Company Name: Taloh LPE Company Name: |
| Work Order Comments | Project Manager: Chris Jones Bill to: (It different) |
| Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com Page of | Hobbs,NM (575-392-7550) Phoenix,AZ (480 |
| Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 | Houston,TX (281) 240-4200 Dall Midland,TX (432-704-5440) EL |
| Chain of Custody Work Order No: WO (1) | |
| | |



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



| Client: Talon/LPE Co. | Acceptable Temperature Range: 0 - 6 degC |
|---|---|
| Date/ Time Received: 05/30/2019 10:58:00 AM | Air and Metal samples Acceptable Range: Ambient |
| Work Order #: 625910 | Temperature Measuring device used:R8 |
| Sample Rece | ipt Checklist Comments |
| #1 *Temperature of cooler(s)? | .3 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6*Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | Νο |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | N/A |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel Brianna Teel Checklist reviewed by: Jessica Kramer

Date: 05/30/2019

Date: 05/31/2019