Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nRM2006453458
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>110 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

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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: Amy Barnhill Title: Lead Environmental Specialist

Signature: Amy Barnhill Date: 3-12-21

email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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Remediation Plan

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

- [x] Detailed description of proposed remediation technique
- [x] Scaled sitemap with GPS coordinates showing delineation points
- [x] Estimated volume of material to be remediated
- [x] Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- [x] 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: Amy Barnhill Title: Lead Environmental Specialist

Signature: Amy Barnhill Date: 3-12-21

email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: _____ Date: _____

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nRM2006453458
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Closure

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

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

[X] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[X] 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)

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

[X] 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: Amy Barnhill Title: Lead Environmental Specialist

Signature: Amy Barnhill Date: 3-12-21

email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: Chad Hensley Date: 04/30/2021

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: Chad Hensley Date: 04/30/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

Tracking Number: nRM2006453458
Closure Report
Talco 25 25 35 Federal #001H
Produced Water Release
Lea County, New Mexico

Latitude: 32.107986
Longitude: -103.327119

LAI Project No. 20-0107-07

March 3, 2021

Prepared for:
Chevron USA Inc.
6301 Deauville Blvd.
Midland, Texas 79706

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 202
Midland, Texas 79701

Mark J. Larson, P.G.
Certified Professional Geologist #10490

Robert Nelson
Sr. Geologist

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Table of Contents

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this closure report on behalf of Chevron USA Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (OCD) District 1 for a produced water release at the Talco 25 25 35 Federal #001H (Site) located in Unit M (NW/4, SW/4), Section 25, Township 25 South, Range 35 East in Lea County New Mexico. The geodetic position is 32.107986, -103.327119. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on February 19, 2020, at 1:20PM MST. The spill occurred due to corrosion in the load line inside the lined containment. Chevron reported that 138 barrels (bbls) of produced water were released and 138 bbls were recovered. A small amount of liquid pooled outside near the west and east sides of the containment. Inspection of the liner did not reveal any defects. The affected area measures approximately 3,964 square feet. The initial C-141 was submitted to OCD District 1 on February 28, 2020 and received incident number nRM2006453458. Appendix A presents the Chevron spill calculation.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,100 feet above mean sea level (msl).
- The surface topography gradually decreases to the southeast.
- There are no surface water features within 1,000 feet of the Site.
- Karst Data provided by the USGS describes the site as “Low Risk” potential.
- The soils are designated as Simona-Upton association, 0 to 3 percent slopes, consisting of 8 inches of gravelly fine sandy loam, underlain by 8 inches of a fine sandy loam, and 8 inches of cemented material (caliche) in descending order.
- The geology is Quaternary age sand and silt, and locally includes cover sand.
- Groundwater occurs at greater than 110 feet below ground surface (bgs) based on depth to groundwater measurements taken 72 hours after installing an exploratory boring (BH-1) on April 28, 2020.

Appendix B presents the karst risk potential map. Appendix C presents the boring log.

1.3 Remediation Action Levels

The following remediation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 2,500 mg/Kg
- Chloride 20,000 mg/Kg

Further, 19.15.29.13 NMAC (Restoration, Reclamation and Re-Vegetation) requires the operator to restore the impacted surface area that existed prior to the release or their final land use.

2.0 DELINEATION

On March 9 and 23, 2020, LAI personnel used a stainless-steel hand auger to collect soil samples from eight (8) locations outside the lined containment (SP-1 through SP-8) to delineate the release vertically and horizontally. The samples were collected at approximately 1-foot bgs. The soil samples were delivered under chain of custody and preservation to Xenco Laboratories (Xenco) in Midland, Texas, which analyzed the samples for benzene, toluene, ethylbenzene and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35), and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively. Figure 2 presents an aerial map showing the sample locations.

Benzene and chloride were below the remediation action levels of 10 milligrams per kilogram (mg/Kg) and 600 mg/Kg in all samples. BTEX and TPH exceeded the OCD remediation limits of 50 mg/Kg and 2,500 mg/Kg, respectively, in the following samples.

Sample ID, Depth (feet)	**BTEX (mg/Kg)**	**TPH (mg/Kg)**
SP-3, 0 to 0.5'	1,080	3,000
SP-3, 0.5 to 1'	112	1,040
SP-6, 0 to 0.5'	--	4,850
SP-6, 0.5 to 1'	--	3,770

On March 25, 2020, LAI personnel used a Geoprobe® Model 7822DT direct push rig to further delineate the release at sample points SP-3 and SP-6. Soil samples were collected at 2, 3, 4, 5, 6, and 10 feet bgs depending on subsurface conditions. The samples were delivered under chain of custody and preservation to PBEL and were analyzed for BTEX, TPH, and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively.

According to the release rule (19.15.29.11(5)(C) NMAC) vertical delineation for chloride to 600 mg/Kg is not required where groundwater exceeds 100 feet in depth. Chloride was delineated below the remediation limit (20,000 mg/Kg) at all sample locations, therefore, the release was delineated vertically for chloride according to 19.15.29.11(5)(C) NMAC. Table 1 presents the delineation soil sample analytical data summary. Appendix D presents the laboratory reports.

3.0 REMEDIATION

On January 20, 2021, Rocky Peak Construction, Inc. (Rocky Peak), under supervision from LAI, used hand tools to excavate soil encompassing sample location SP-3 (East Excavation) and a backhoe to excavate soil encompassing sample location SP-6 (West Excavation) measuring approximately a combined 380 square

feet to a depth of two (2) feet bgs. Approximately forty (40) cubic yards of impacted material was removed and placed on a liner outside the excavation.

On January 25, 2021, LAI personnel collected four (4) bottom (C-1, C-2, C-5, and C-6) and four (4) sidewall (C-3, C-4, C-7, and C-8) confirmation soil samples from within the excavation. Laboratory analysis indicated three (3) bottom (C-2, C-5, and C-6) were above the OCD closure criteria for TPH (100 mg/Kg) at 5,750 mg/Kg, 245 mg/Kg, and 1,310 mg/Kg, respectively. One sidewall (C-4) was above the OCD closure criteria for chloride (600 mg/Kg) at 628 mg/Kg. Table 2 presents the confirmation soil sample analytical data summary. Figure 3 presents an aerial map showing the excavation boundaries and confirmation sample locations. Appendix D presents the laboratory reports.

On February 4, 2021, Rocky Peak excavated an additional 2.1 feet from the bottom encompassing sample location C-5 and C-6, one (1) foot from the bottom of C-2, and one (1) foot from the sidewall of C-4. Approximately thirty-two (32) cubic yards of impacted material was removed and placed on a liner. Subsequent laboratory analysis reported TPH and/or chloride concentrations below OCD closure criteria. All impacted material and plastic liner were disposed at the Sundance Disposal facility located east of Eunice, New Mexico. Appendix E presents the waste manifests.

LAI personnel collected one (1) composite sample of clean caliche and sand from a nearby borrow pit. TPH was below the analytical method reporting limit. Benzene, BTEX, and chloride were below the OCD limits of 10 mg/Kg, 50 mg/Kg, and 600 mg/Kg, respectively. On February 25 and 26, 2021, the east excavation was backfilled with approximately 2.5 feet of clean sand and to ground surface with clean caliche. The west excavation was backfilled to ground surface with clean caliche. Appendix F presents the photographic documentation.

4.0 CLOSURE REQUEST

Chevron USA requests no further action for nRM2003453458.

Tables

Table 1
Soil Sample Analytical Data Summary
Chevron USA, Talco 25 25 35 Federal #001H
Lea County, New Mexico
North 32 6 28.78, West 103 19 37.36

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100 / 2,500**	**600 / 20,000**
SP-1	0 - 0.5	3/9/2020	In-Situ	<0.00200	0.00804	<50.0	<50.0	<50.0	<50.0	<5.05
	0.5 - 1	3/9/2020	In-Situ	<0.00199	0.12900	<50.0	<50.0	<50.0	<50.0	<4.99
SP-2	0 - 0.5	3/9/2020	In-Situ	<0.00199	0.13700	<49.9	<49.9	<49.9	<49.9	125
	0.5 - 1	3/9/2020	In-Situ	<0.00198	0.19400	<50.0	<50.0	<50.0	<50.0	119
SP-3	0 - 0.5	3/9/2020	In-Situ	<0.200	**1,080**	3,000	<50.0	<50.0	**3,000**	20.6
	0.5 - 1	3/9/2020	In-Situ	<0.200	**112**	1,040	<49.9	<49.9	**1,040**	292
	2	3/26/2020	In-Situ	<0.00199	0.0690	<50.0	<50.0	<50.0	<50.0	<4.99
	3	3/26/2020	In-Situ	<0.00199	0.0608	<50.0	<50.0	<50.0	<50.0	11.2
	4	3/26/2020	In-Situ	--	--	<49.9	<49.9	<49.9	<49.9	8.77
	5	3/26/2020	In-Situ	--	--	<50.0	<50.0	<50.0	<50.0	<4.96
	6	3/26/2020	In-Situ	--	--	<49.8	<49.8	<49.8	<49.8	<4.95
SP-4	0 - 0.5	3/9/2020	In-Situ	<0.00200	0.03210	<49.8	<49.8	<49.8	<49.8	72.8
	0.5 - 1	3/9/2020	In-Situ	<0.00198	0.00774	<50.0	<50.0	<50.0	<50.0	56.0
SP-5	0 - 0.5	3/9/2020	In-Situ	<0.00199	0.16600	<50.0	<50.0	<50.0	<50.0	14.1
	0.5 - 1	3/9/2020	In-Situ	<0.00200	0.21000	<49.9	<49.9	<49.9	<49.9	83.6
SP-6	0 - 0.5	3/9/2020	In-Situ	<0.00199	0.14300	120	4,080	646	**4,850**	149
	0.5 - 1	3/9/2020	In-Situ	<0.00198	<0.00198	252	3,000	522	**3,770**	22.7
	2	3/25/2020	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	139
	3	3/25/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	21.3
	4	3/25/2020	In-Situ	--	--	<50.0	<50.0	<50.0	<50.0	20.8

Table 1
Soil Sample Analytical Data Summary
Chevron USA, Talco 25 25 35 Federal #001H
Lea County, New Mexico
North 32 6 28.78, West 103 19 37.36

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100 / 2,500**	**600 / 20,000**
	5	3/25/2020	In-Situ	--	--	<50.0	<50.0	<50.0	<50.0	26.1
	10	3/25/2020	In-Situ	--	--	<49.9	<49.9	<49.9	<49.9	137
SP-7	0 - 0.5	3/19/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	56.4
	0.5 - 1	3/19/2020	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	17.6
SP-8	0 - 0.5	3/19/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<4.96
	0.5 - 1	3/19/2020	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	7.62

Notes: Analysis performed by Xenco Laboratories (Xenco), Midland, Texas by EPA SW-846 Methods 8021B (BTEX), 8015M (TPH), and Method 300 (chloride)
Depth in feet below ground surface (bgs)
mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)
<: denotes concentration less than analytical method reporting limit
Bold and Highlighted exceeds OCD remediation action limits

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Talco 25 25 35 Federal #001H
Lea County, New Mexico
North 32.107986 West -104.327119

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					**10**	**50**				**100 / 2,500**	**600 / 20,000**
C-1	Bottom	2	1/25/2021	In-Situ	<0.00199	0.00957	<50.0	<50.0	<50.0	<50.0	398
C-2	Bottom	2	1/25/2021	Excavated	<0.00200	0.0259	5,750	<49.8	<49.8	**5,750**	37.5
		3	2/4/2021	In-Situ	<0.00199	1.00	<49.9	<49.9	<49.9	<49.9	107
C-3	Sidewall	0 - 2	1/25/2021	In-Situ	<0.00201	0.239	<50.0	<50.0	<50.0	<50.0	88.2
C-4	Sidewall	0 - 2	1/25/2021	Excavated	<0.00198	0.0852	<50.0	<50.0	<50.0	<50.0	**628**
			2/4/2021	In-Situ	<0.00200	0.0824	<49.9	<49.9	<49.9	<49.9	50.1
C-5	Bottom	2	1/25/2021	Excavated	<0.00200	0.0323	<49.9	245	<49.9	**245**	82.0
		4.1	2/4/2021	In-Situ	<0.00201	0.00260	<49.8	<49.8	<49.8	<49.8	34.3
C-6	Bottom	2	1/25/2021	Excavated	0.00224	0.0604	50.3	1,150	106	**1,310**	51.8
		4.1	2/4/2021	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	33.6
C-7	Sidewall	0 - 2	1/25/2021	In-Situ	0.00308	0.0558	<49.9	<49.9	<49.9	<49.9	44.0
C-8	Sidewall	0 - 2	1/25/2021	In-Situ	0.00427	0.0414	<49.8	<49.8	<49.8	<49.8	45.4
Backfill Caliche 1	--	--	1/25/2021	In-Situ	0.00526	0.193	<50.0	<50.0	<50.0	<50.0	8.04

Notes: analysis performed by Xenco Laboratories (Xenco), Midland, Texas by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and Method 300 (chloride)

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

Bold and Highlighted Denotes Conetrations Above OCD Closure Criteria

Figures

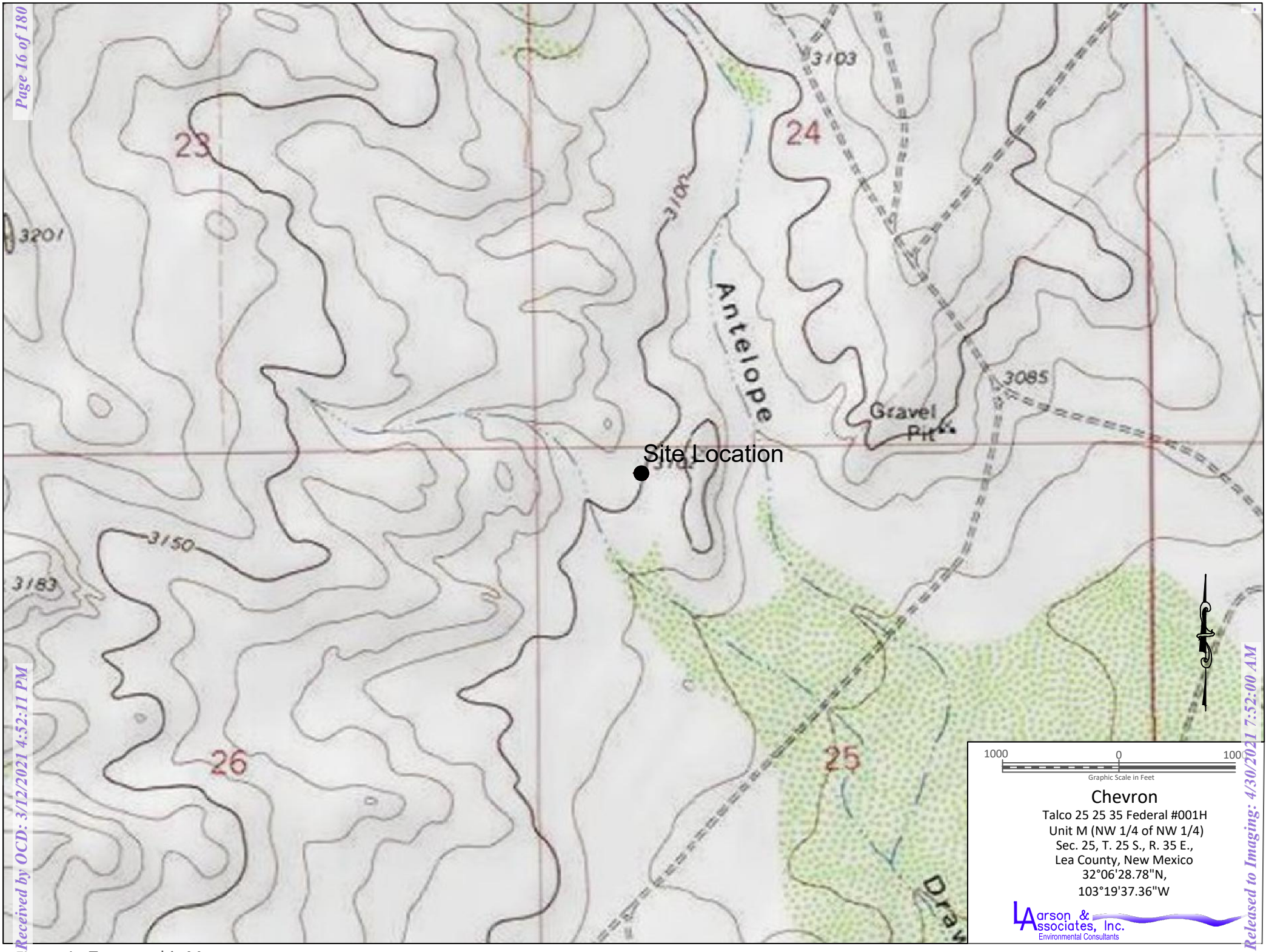

Figure 1 - Topographic Map

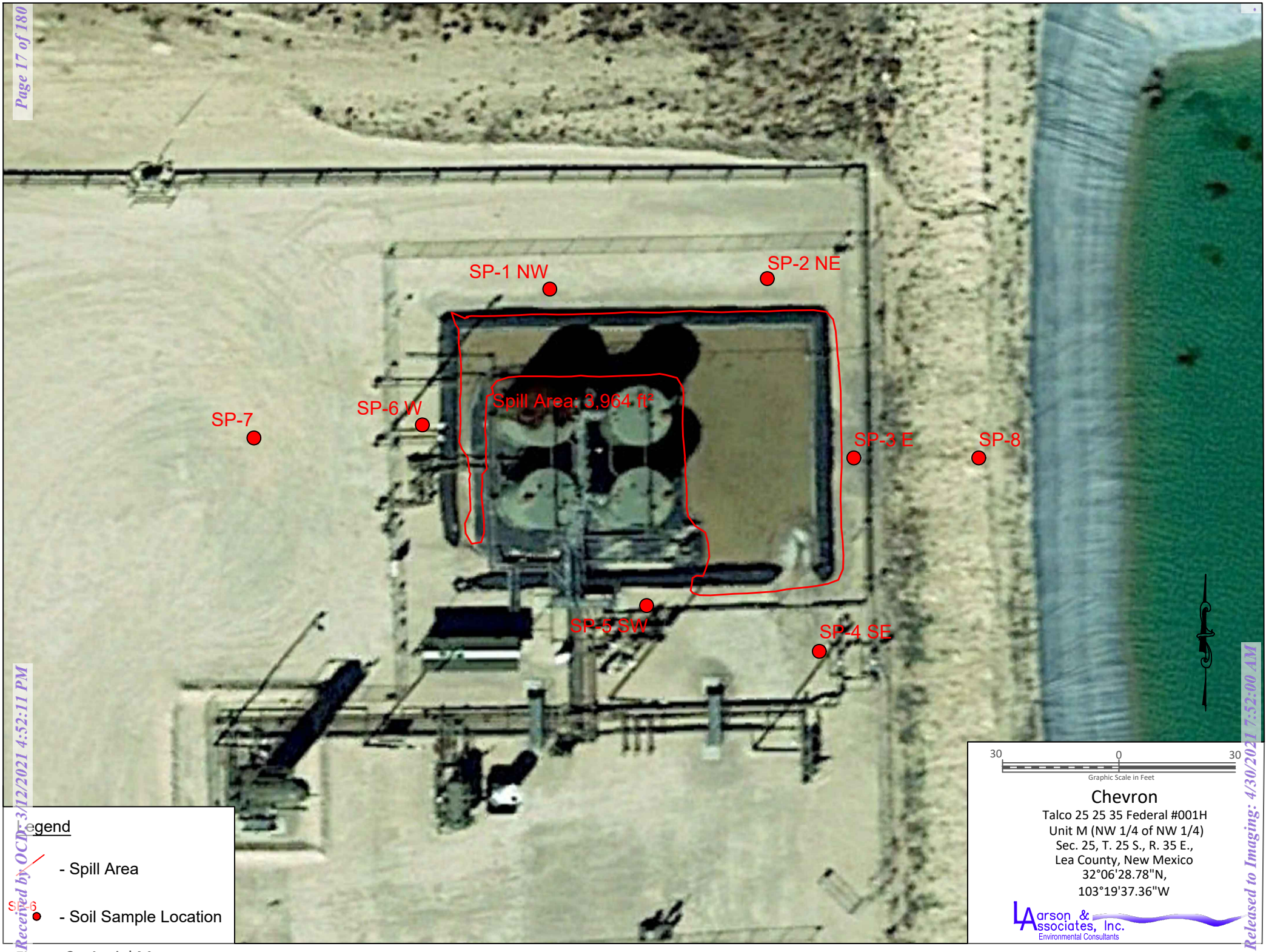

Figure 2 - Aerial Map

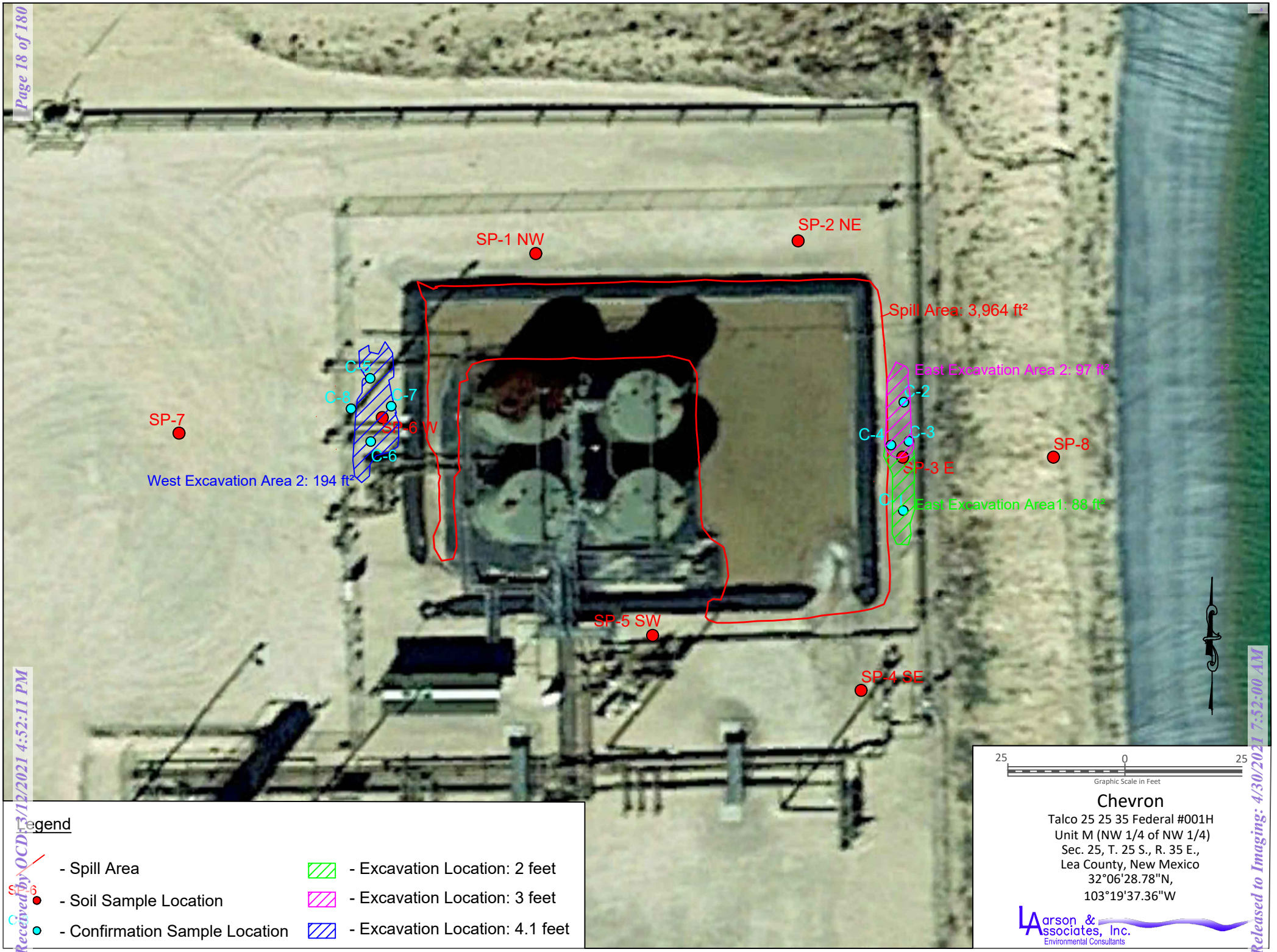

Figure 3 - Aerial Map Showing Excavation Locations and Confirmation Sample Locations

Figure 4 - Aerial Map Showing Boring Hole Location

Appendix A

Chevron Spill Calculation

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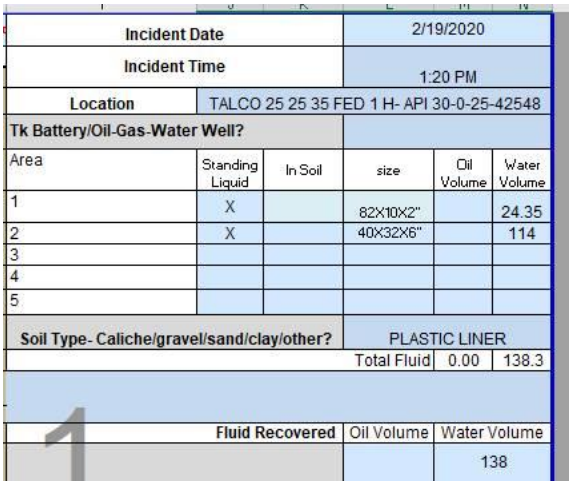
State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	



Incident Date			2/19/2020		
Incident Time			1:20 PM		
Location	TALCO 25 25 35 FED 1 H- API 30-0-25-42548				
Tk Battery/Oil-Gas-Water Well?					
Area	Standing Liquid	In Soil	size	Oil Volume	Water Volume
1	X		82X10X2"		24.35
2	X		40X32X6"		114
3					
4					
5					
Soil Type- Caliche/gravel/sand/clay/other?			PLASTIC LINER		
			Total Fluid	0.00	138.3
Fluid Recovered			Oil Volume	Water Volume	
				138	

Appendix B

Karst Risk Potential

New Mexico Kart or No Karst - QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh Processing Help

Browser

- Favorites
- Spatial Bookmarks
- Project Home
- Home
- C:\
- D:\
- L:\
- Z:\
- GeoPackage
- SpatiaLite
- PostGIS
- MSSQL
- Oracle
- DB2
- WMS/WMTS
- XYZ Tiles
- WCS
- WFS / OGC API - Features
- OWS
- ArcGisMapServer
- ArcGisFeatureServer
- GeoNode

Layers

- Added geom info
- Karst_or_No_Karst
  - High
  - Low
  - Medium
  -
- Bing Satellite

Low

Type to locate (Ctrl+K)

Coordinate 657359,3554044 Scale 1:4706 Magnifier 100% Rotation 0.0 ° Render EPSG:26913

Appendix C

Boring Log

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 11:15 Finish: 12:15 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING PPM X (2 4 6 8 10 12 14 16 18)	SAMPLE NUMBER	SAMPLE PID READING	SAMPLE RECOVERY	SAMPLE DEPTH	REMARKS BACKGROUND PID READING SOIL : PPM SOIL : PPM
	0	Sand, Quartz Fine Sand, Rounded, 1/8-1/4mm with Very Coarse Angular Clast (~1cm), 7.5YR 7/6, Reddish Yellow, Moderately Sorted 7.5YR 8/3 to 8/4, Pink, Moderately Sorted	SW						1	
	5								5	
	10								10	
	15								15	
	20								20	
	25								25	
	30	Sand, Quartz Fine Sand, 1/6-1/8mm, Rounded, Well Sorted, 10YR 8/4, Very Pale Brown	SW						30	
	35								35	
	40								40	
	45								45	
	50								50	
	55	Silty Sand, Round, Fine Grained with Angular Clast, 0.5-1cm Diameter, 7.5YR 7/4, Pink, Moderately Sorted	SM						55	
	60								60	
	65	Sand, Very Fine Grained Quartz Sand, 1/16-1/8mm, Well Sorted, Well Rounded, 7.5YR 8/3	SW						65	
	70								70	
	75		SM						75	

ONE CONTINUOUS AUGER SAMPLER
STANDARD PENETRATION TEST
UNDISTURBED SAMPLE
WATER TABLE (24 HRS)
WATER TABLE (TIME OF BORING)
LABORATORY TEST LOCATION
PENETROMETER (TONS/ SQ. FT)
NR NO RECOVERY

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 4-28-2020

BORING NUMBER : BH-1

JOB NUMBER : Chevron/ 20-0107-07
HOLE DIAMETER : 2"
LOCATION : Talco 25 25 35 Federal #001H
LAI GEOLOGIST : R. Nelson
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

BORING RECORD

Start: 11:15
Finish: 12:15

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG
	80	Sand, Fine Grained Quartz Sand, Rounded, 1/8-1/4mm, Moderately Sorted, 7.5YR 8/2, Pinkish White	SW	
	85	Silty Sand, Rounded, Fine Grained with Subangular Clasts, 0.5-1cm in Diameter, Moderately Sorted, 7.5YR 7/6, Reddish Yellow	SM	
	90			
	95	Silty Sand, Rounded, Fine Grained, Well Sorted, 2.5YR 6/6, Reddish Yellow		
	100		SM	
	105	Sand, Very Fine Grained Quartz Sand, Well Rounded, Well Sorted, 7.5YR 7/6, Reddish Yellow	SW	
	110	TD:110' *Dry After 72 Hours*		

PID READING — PPM X 1 (2 4 6 8 10 12 14 16 18)

SAMPLE: NUMBER | PID READING | RECOVERY | DEPTH (0, 85, 90, 95, 100, 105, 110)

REMARKS: BACKGROUND PID READING — SOIL : ____ PPM; SOIL : ____ PPM

ONE CONTINUOUS AUGER SAMPLER
STANDARD PENETRATION TEST
UNDISTURBED SAMPLE
WATER TABLE (24 HRS)
WATER TABLE (TIME OF BORING)
L LABORATORY TEST LOCATION
+ PENETROMETER (TONS/ SQ. FT)
NR NO RECOVERY

JOB NUMBER : Chevron/ 20-0107-07
HOLE DIAMETER : 2"
LOCATION : Talco 25 25 35 Federal #001H
LAI GEOLOGIST : R. Nelson
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 4-28-2020

BORING NUMBER : BH-1

Appendix D

Laboratory Reports

Certificate of Analysis Summary 655065

Larson and Associates, Inc., Midland, TX

Project Name: Talco 25

Project Id: 20-0107-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Mon 03.09.2020 15:32
Report Date: 03.17.2020 11:30
Project Manager: Holly Taylor

Analysis Requested		655065-001		655065-002		655065-003		655065-004		655065-005		655065-006	
	Field Id:	SP-1 NW 0.5'		SP-1 NW 1'		SP-2 NE 0.5'		SP-2 NE 1'		SP-3 E 0.5'		SP-3 E 1'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	03.09.2020 10:36		03.09.2020 10:38		03.09.2020 10:44		03.09.2020 10:48		03.09.2020 10:50		03.09.2020 10:52	
BTEX by EPA 8021B	*Extracted:*	03.15.2020 10:15		03.15.2020 10:15		03.15.2020 10:15		03.15.2020 10:15		03.15.2020 10:15		03.15.2020 10:15	
	Analyzed:	03.15.2020 14:31		03.15.2020 14:51		03.15.2020 15:11		03.15.2020 15:32		03.16.2020 00:36		03.16.2020 00:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.200	0.200	<0.200	0.200
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.200	0.200	<0.200	0.200
Ethylbenzene		<0.00200	0.00200	0.0220	0.00199	0.0264	0.00199	0.0351	0.00198	20.8	0.200	14.0	0.200
m,p-Xylenes		0.00488	0.00400	0.0766	0.00398	0.0799	0.00398	0.114	0.00397	779 D	3.99	74.0	0.399
o-Xylene		0.00316	0.00200	0.0308	0.00199	0.0305	0.00199	0.0448	0.00198	280 D	2.00	24.3	0.200
Total Xylenes		0.00804	0.00200	0.107	0.00199	0.110	0.00199	0.159	0.00198	1060	2.00	98.3	0.200
Total BTEX		0.00804	0.00200	0.129	0.00199	0.137	0.00199	0.194	0.00198	1080	0.200	112	0.200
Chloride by EPA 300	*Extracted:*	03.10.2020 09:50		03.10.2020 09:50		03.10.2020 09:50		03.10.2020 09:50		03.10.2020 09:50		03.10.2020 09:50	
	Analyzed:	03.10.2020 10:23		03.10.2020 11:00		03.10.2020 11:06		03.10.2020 11:12		03.10.2020 11:20		03.10.2020 12:19	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.05	5.05	<4.99	4.99	125	4.96	119	5.00	20.6	4.98	292	5.04
TPH by SW8015 Mod	*Extracted:*	03.10.2020 09:30		03.10.2020 09:30		03.10.2020 09:30		03.10.2020 09:30		03.10.2020 09:30		03.10.2020 09:30	
	Analyzed:	03.10.2020 09:38		03.10.2020 10:33		03.10.2020 10:52		03.10.2020 11:11		03.10.2020 11:30		03.10.2020 11:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	3000	50.0	1040	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9
Total TPH		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	3000	50.0	1040	49.9

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Certificate of Analysis Summary 655065

Larson and Associates, Inc., Midland, TX

Project Name: Talco 25

Project Id: 20-0107-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Mon 03.09.2020 15:32
Report Date: 03.17.2020 11:30
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	655065-007		655065-008		655065-009		655065-010		655065-011		655065-012	
	Field Id:	SP-4 SE 0.5'		SP-4 SE 1'		SP-5 SW 0.5'		SP-5 SW 1'		SP-6 W 0.5'		SP-6 W 1'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	03.09.2020 10:55		03.09.2020 11:01		03.09.2020 11:08		03.09.2020 11:07		03.09.2020 11:11		03.09.2020 11:16	
BTEX by EPA 8021B	***Extracted:***	03.15.2020 10:15		03.15.2020 10:15		03.15.2020 10:15		03.15.2020 10:15		03.15.2020 10:15		03.15.2020 10:15	
	Analyzed:	03.15.2020 15:52		03.15.2020 16:12		03.15.2020 16:32		03.15.2020 16:52		03.15.2020 17:12		03.15.2020 17:32	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		0.00409	0.00200	<0.00198	0.00198	0.0301	0.00199	0.0375	0.00200	0.0237	0.00199	0.0134	0.00200
m,p-Xylenes		0.0185	0.00400	0.00466	0.00397	0.0981	0.00398	0.124	0.00401	0.0875	0.00398	0.0989	0.00399
o-Xylene		0.00947	0.00200	0.00308	0.00198	0.0374	0.00199	0.0486	0.00200	0.0319	0.00199	0.0579	0.00200
Total Xylenes		0.0280	0.00200	0.00774	0.00198	0.136	0.00199	0.173	0.00200	0.119	0.00199	0.157	0.00200
Total BTEX		0.0321	0.00200	0.00774	0.00198	0.166	0.00199	0.210	0.00200	0.143	0.00199	0.170	0.00200
Chloride by EPA 300	***Extracted:***	03.10.2020 09:50		03.10.2020 09:50		03.10.2020 09:50		03.10.2020 09:50		03.10.2020 09:50		03.10.2020 09:50	
	Analyzed:	03.10.2020 12:28		03.10.2020 12:38		03.10.2020 12:47		03.10.2020 12:56		03.10.2020 13:05		03.10.2020 13:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		72.8	5.01	56.0	4.97	14.1	4.96	83.6	5.00	149	5.00	22.7	5.02
TPH by SW8015 Mod	***Extracted:***	03.10.2020 09:30		03.10.2020 09:30		03.10.2020 09:30		03.10.2020 09:30		03.10.2020 09:30		03.10.2020 09:30	
	Analyzed:	03.10.2020 12:07		03.10.2020 12:26		03.10.2020 12:45		03.10.2020 13:04		03.10.2020 13:23		03.10.2020 13:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	120	50.0	252	49.9
Diesel Range Organics (DRO)		<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	4080	50.0	3000	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	646	50.0	522	49.9
Total TPH		<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	4850	50.0	3770	49.9

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Analytical Report 655065

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Talco 25

20-0107-07

03.17.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

03.17.2020

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: XENCO Report No(s): **655065**
Talco 25
Project Address:

Mark Larson :

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) 655065. 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. 655065 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,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 655065

Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 NW 0.5'	S	03.09.2020 10:36		655065-001
SP-1 NW 1'	S	03.09.2020 10:38		655065-002
SP-2 NE 0.5'	S	03.09.2020 10:44		655065-003
SP-2 NE 1'	S	03.09.2020 10:48		655065-004
SP-3 E 0.5'	S	03.09.2020 10:50		655065-005
SP-3 E 1'	S	03.09.2020 10:52		655065-006
SP-4 SE 0.5'	S	03.09.2020 10:55		655065-007
SP-4 SE 1'	S	03.09.2020 11:01		655065-008
SP-5 SW 0.5'	S	03.09.2020 11:08		655065-009
SP-5 SW 1'	S	03.09.2020 11:07		655065-010
SP-6 W 0.5'	S	03.09.2020 11:11		655065-011
SP-6 W 1'	S	03.09.2020 11:16		655065-012

CASE NARRATIVE

Client Name: Larson and Associates, Inc.

Project Name: Talco 25

Project ID: *20-0107-07*
Work Order Number(s): *655065*

Report Date: *03.17.2020*
Date Received: *03.09.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3119699 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7698912-1-BLK.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Due to matrix, the intial run for samples 005 & 006 was performed at a dilution of 100X.

Certificate of Analytical Results 655065

Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-1 NW 0.5'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-001	Date Collected:	03.09.2020 10:36		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.10.2020 09:50	Basis:	Wet Weight
Seq Number:	3119152				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.05	5.05	mg/kg	03.10.2020 10:23	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.10.2020 09:30	Basis:	Wet Weight
Seq Number:	3119216				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.10.2020 09:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.10.2020 09:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.10.2020 09:38	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.10.2020 09:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	03.10.2020 09:38	
o-Terphenyl	84-15-1	90	%	70-135	03.10.2020 09:38	

Certificate of Analytical Results 655065

Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-1 NW 0.5'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-001	Date Collected:	03.09.2020 10:36		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.15.2020 10:15	Basis:	Wet Weight
Seq Number:	3119699				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.15.2020 14:31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.15.2020 14:31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.15.2020 14:31	U	1
m,p-Xylenes	179601-23-1	**0.00488**	0.00400	mg/kg	03.15.2020 14:31		1
o-Xylene	95-47-6	**0.00316**	0.00200	mg/kg	03.15.2020 14:31		1
Total Xylenes	1330-20-7	**0.00804**	0.00200	mg/kg	03.15.2020 14:31		1
Total BTEX		**0.00804**	0.00200	mg/kg	03.15.2020 14:31		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	74	%	70-130	03.15.2020 14:31	
1,4-Difluorobenzene	540-36-3	107	%	70-130	03.15.2020 14:31	

Certificate of Analytical Results 655065

Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-1 NW 1'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-002	Date Collected:	03.09.2020 10:38		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.10.2020 09:50	Basis:	Wet Weight
Seq Number:	3119152				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	03.10.2020 11:00	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.10.2020 09:30	Basis:	Wet Weight
Seq Number:	3119216				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.10.2020 10:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.10.2020 10:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.10.2020 10:33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.10.2020 10:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	03.10.2020 10:33	
o-Terphenyl	84-15-1	99	%	70-135	03.10.2020 10:33	

Certificate of Analytical Results 655065

Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-1 NW 1'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-002	Date Collected:	03.09.2020 10:38		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.15.2020 10:15	Basis:	Wet Weight
Seq Number:	3119699				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.15.2020 14:51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.15.2020 14:51	U	1
Ethylbenzene	100-41-4	**0.0220**	0.00199	mg/kg	03.15.2020 14:51		1
m,p-Xylenes	179601-23-1	**0.0766**	0.00398	mg/kg	03.15.2020 14:51		1
o-Xylene	95-47-6	**0.0308**	0.00199	mg/kg	03.15.2020 14:51		1
Total Xylenes	1330-20-7	**0.107**	0.00199	mg/kg	03.15.2020 14:51		1
Total BTEX		**0.129**	0.00199	mg/kg	03.15.2020 14:51		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	03.15.2020 14:51	
4-Bromofluorobenzene	460-00-4	82	%	70-130	03.15.2020 14:51	

Certificate of Analytical Results 655065

Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-2 NE 0.5'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-003	Date Collected:	03.09.2020 10:44		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.10.2020 09:50	Basis:	Wet Weight
Seq Number:	3119152				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**125**	4.96	mg/kg	03.10.2020 11:06		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.10.2020 09:30	Basis:	Wet Weight
Seq Number:	3119216				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.10.2020 10:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.10.2020 10:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.10.2020 10:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.10.2020 10:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	03.10.2020 10:52	
o-Terphenyl	84-15-1	92	%	70-135	03.10.2020 10:52	

Certificate of Analytical Results 655065

Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-2 NE 0.5'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-003	Date Collected:	03.09.2020 10:44		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.15.2020 10:15	Basis:	Wet Weight
Seq Number:	3119699				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.15.2020 15:11	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.15.2020 15:11	U	1
Ethylbenzene	100-41-4	**0.0264**	0.00199	mg/kg	03.15.2020 15:11		1
m,p-Xylenes	179601-23-1	**0.0799**	0.00398	mg/kg	03.15.2020 15:11		1
o-Xylene	95-47-6	**0.0305**	0.00199	mg/kg	03.15.2020 15:11		1
Total Xylenes	1330-20-7	**0.110**	0.00199	mg/kg	03.15.2020 15:11		1
Total BTEX		**0.137**	0.00199	mg/kg	03.15.2020 15:11		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	70-130	03.15.2020 15:11	
1,4-Difluorobenzene	540-36-3	109	%	70-130	03.15.2020 15:11	

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Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-2 NE 1'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-004	Date Collected:	03.09.2020 10:48		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.10.2020 09:50	Basis:	Wet Weight
Seq Number:	3119152				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**119**	5.00	mg/kg	03.10.2020 11:12		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.10.2020 09:30	Basis:	Wet Weight
Seq Number:	3119216				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.10.2020 11:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.10.2020 11:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.10.2020 11:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.10.2020 11:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	03.10.2020 11:11	
o-Terphenyl	84-15-1	105	%	70-135	03.10.2020 11:11	

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Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-2 NE 1'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-004	Date Collected:	03.09.2020 10:48		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.15.2020 10:15	Basis:	Wet Weight
Seq Number:	3119699				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.15.2020 15:32	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.15.2020 15:32	U	1
Ethylbenzene	100-41-4	**0.0351**	0.00198	mg/kg	03.15.2020 15:32		1
m,p-Xylenes	179601-23-1	**0.114**	0.00397	mg/kg	03.15.2020 15:32		1
o-Xylene	95-47-6	**0.0448**	0.00198	mg/kg	03.15.2020 15:32		1
Total Xylenes	1330-20-7	**0.159**	0.00198	mg/kg	03.15.2020 15:32		1
Total BTEX		**0.194**	0.00198	mg/kg	03.15.2020 15:32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	78	%	70-130	03.15.2020 15:32	
1,4-Difluorobenzene	540-36-3	105	%	70-130	03.15.2020 15:32	

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Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-3 E 0.5'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-005	Date Collected:	03.09.2020 10:50		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.10.2020 09:50	Basis:	Wet Weight
Seq Number:	3119152				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**20.6**	4.98	mg/kg	03.10.2020 11:20		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.10.2020 09:30	Basis:	Wet Weight
Seq Number:	3119216				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**3000**	50.0	mg/kg	03.10.2020 11:30		1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.10.2020 11:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.10.2020 11:30	U	1
Total TPH	PHC635	**3000**	50.0	mg/kg	03.10.2020 11:30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	03.10.2020 11:30	
o-Terphenyl	84-15-1	104	%	70-135	03.10.2020 11:30	

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Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-3 E 0.5'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-005	Date Collected:	03.09.2020 10:50		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.15.2020 10:15	Basis:	Wet Weight
Seq Number:	3119699				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.200	0.200	mg/kg	03.16.2020 00:36	U	100
Toluene	108-88-3	<0.200	0.200	mg/kg	03.16.2020 00:36	U	100
Ethylbenzene	100-41-4	**20.8**	0.200	mg/kg	03.16.2020 00:36		100
m,p-Xylenes	179601-23-1	**779**	3.99	mg/kg	03.16.2020 14:12	D	1000
o-Xylene	95-47-6	**280**	2.00	mg/kg	03.16.2020 14:12	D	1000
Total Xylenes	1330-20-7	**1060**	2.00	mg/kg	03.16.2020 14:12		1000
Total BTEX		**1080**	0.200	mg/kg	03.16.2020 14:12		1000

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	03.16.2020 00:36	
1,4-Difluorobenzene	540-36-3	91	%	70-130	03.16.2020 00:36	

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Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-3 E 1'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-006	Date Collected:	03.09.2020 10:52		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.10.2020 09:50	Basis:	Wet Weight
Seq Number:	3119152				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**292**	5.04	mg/kg	03.10.2020 12:19		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.10.2020 09:30	Basis:	Wet Weight
Seq Number:	3119216				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**1040**	49.9	mg/kg	03.10.2020 11:48		1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.10.2020 11:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.10.2020 11:48	U	1
Total TPH	PHC635	**1040**	49.9	mg/kg	03.10.2020 11:48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	03.10.2020 11:48	
o-Terphenyl	84-15-1	101	%	70-135	03.10.2020 11:48	

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Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-3 E 1'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-006	Date Collected:	03.09.2020 10:52		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.15.2020 10:15	Basis:	Wet Weight
Seq Number:	3119699				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.200	0.200	mg/kg	03.16.2020 00:56	U	100
Toluene	108-88-3	<0.200	0.200	mg/kg	03.16.2020 00:56	U	100
Ethylbenzene	100-41-4	**14.0**	0.200	mg/kg	03.16.2020 00:56		100
m,p-Xylenes	179601-23-1	**74.0**	0.399	mg/kg	03.16.2020 00:56		100
o-Xylene	95-47-6	**24.3**	0.200	mg/kg	03.16.2020 00:56		100
Total Xylenes	1330-20-7	**98.3**	0.200	mg/kg	03.16.2020 00:56		100
Total BTEX		**112**	0.200	mg/kg	03.16.2020 00:56		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	03.16.2020 00:56	
1,4-Difluorobenzene	540-36-3	94	%	70-130	03.16.2020 00:56	

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Talco 25

Sample Id:	**SP-4 SE 0.5'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-007	Date Collected:	03.09.2020 10:55		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.10.2020 09:50	Basis:	Wet Weight
Seq Number:	3119152				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**72.8**	5.01	mg/kg	03.10.2020 12:28		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.10.2020 09:30	Basis:	Wet Weight
Seq Number:	3119216				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.10.2020 12:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.10.2020 12:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.10.2020 12:07	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.10.2020 12:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	03.10.2020 12:07	
o-Terphenyl	84-15-1	106	%	70-135	03.10.2020 12:07	

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Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-4 SE 0.5'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-007	Date Collected:	03.09.2020 10:55		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.15.2020 10:15	Basis:	Wet Weight
Seq Number:	3119699				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.15.2020 15:52	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.15.2020 15:52	U	1
Ethylbenzene	100-41-4	**0.00409**	0.00200	mg/kg	03.15.2020 15:52		1
m,p-Xylenes	179601-23-1	**0.0185**	0.00400	mg/kg	03.15.2020 15:52		1
o-Xylene	95-47-6	**0.00947**	0.00200	mg/kg	03.15.2020 15:52		1
Total Xylenes	1330-20-7	**0.0280**	0.00200	mg/kg	03.15.2020 15:52		1
Total BTEX		**0.0321**	0.00200	mg/kg	03.15.2020 15:52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	76	%	70-130	03.15.2020 15:52	
1,4-Difluorobenzene	540-36-3	109	%	70-130	03.15.2020 15:52	

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Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-4 SE 1'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-008	Date Collected:	03.09.2020 11:01		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.10.2020 09:50	Basis:	Wet Weight
Seq Number:	3119152				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**56.0**	4.97	mg/kg	03.10.2020 12:38		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.10.2020 09:30	Basis:	Wet Weight
Seq Number:	3119216				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.10.2020 12:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.10.2020 12:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.10.2020 12:26	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.10.2020 12:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	03.10.2020 12:26	
o-Terphenyl	84-15-1	90	%	70-135	03.10.2020 12:26	

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Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-4 SE 1'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-008	Date Collected:	03.09.2020 11:01		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.15.2020 10:15	Basis:	Wet Weight
Seq Number:	3119699				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.15.2020 16:12	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.15.2020 16:12	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.15.2020 16:12	U	1
m,p-Xylenes	179601-23-1	**0.00466**	0.00397	mg/kg	03.15.2020 16:12		1
o-Xylene	95-47-6	**0.00308**	0.00198	mg/kg	03.15.2020 16:12		1
Total Xylenes	1330-20-7	**0.00774**	0.00198	mg/kg	03.15.2020 16:12		1
Total BTEX		**0.00774**	0.00198	mg/kg	03.15.2020 16:12		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	75	%	70-130	03.15.2020 16:12	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.15.2020 16:12	

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Talco 25

Sample Id:	**SP-5 SW 0.5'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-009	Date Collected:	03.09.2020 11:08		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.10.2020 09:50	Basis:	Wet Weight
Seq Number:	3119152				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14.1**	4.96	mg/kg	03.10.2020 12:47		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.10.2020 09:30	Basis:	Wet Weight
Seq Number:	3119216				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.10.2020 12:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.10.2020 12:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.10.2020 12:45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.10.2020 12:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	03.10.2020 12:45	
o-Terphenyl	84-15-1	91	%	70-135	03.10.2020 12:45	

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Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-5 SW 0.5'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-009	Date Collected:	03.09.2020 11:08		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.15.2020 10:15	Basis:	Wet Weight
Seq Number:	3119699				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.15.2020 16:32	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.15.2020 16:32	U	1
Ethylbenzene	100-41-4	**0.0301**	0.00199	mg/kg	03.15.2020 16:32		1
m,p-Xylenes	179601-23-1	**0.0981**	0.00398	mg/kg	03.15.2020 16:32		1
o-Xylene	95-47-6	**0.0374**	0.00199	mg/kg	03.15.2020 16:32		1
Total Xylenes	1330-20-7	**0.136**	0.00199	mg/kg	03.15.2020 16:32		1
Total BTEX		**0.166**	0.00199	mg/kg	03.15.2020 16:32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	85	%	70-130	03.15.2020 16:32	
1,4-Difluorobenzene	540-36-3	106	%	70-130	03.15.2020 16:32	

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Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-5 SW 1'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-010	Date Collected:	03.09.2020 11:07		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.10.2020 09:50	Basis:	Wet Weight
Seq Number:	3119152				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**83.6**	5.00	mg/kg	03.10.2020 12:56		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.10.2020 09:30	Basis:	Wet Weight
Seq Number:	3119216				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.10.2020 13:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.10.2020 13:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.10.2020 13:04	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.10.2020 13:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	03.10.2020 13:04	
o-Terphenyl	84-15-1	89	%	70-135	03.10.2020 13:04	

Certificate of Analytical Results 655065

Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-5 SW 1'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-010	Date Collected:	03.09.2020 11:07		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.15.2020 10:15	Basis:	Wet Weight
Seq Number:	3119699				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.15.2020 16:52	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.15.2020 16:52	U	1
Ethylbenzene	100-41-4	**0.0375**	0.00200	mg/kg	03.15.2020 16:52		1
m,p-Xylenes	179601-23-1	**0.124**	0.00401	mg/kg	03.15.2020 16:52		1
o-Xylene	95-47-6	**0.0486**	0.00200	mg/kg	03.15.2020 16:52		1
Total Xylenes	1330-20-7	**0.173**	0.00200	mg/kg	03.15.2020 16:52		1
Total BTEX		**0.210**	0.00200	mg/kg	03.15.2020 16:52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	81	%	70-130	03.15.2020 16:52	
1,4-Difluorobenzene	540-36-3	107	%	70-130	03.15.2020 16:52	

Certificate of Analytical Results 655065

Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-6 W 0.5'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-011	Date Collected:	03.09.2020 11:11		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.10.2020 09:50	Basis:	Wet Weight
Seq Number:	3119152				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**149**	5.00	mg/kg	03.10.2020 13:05		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.10.2020 09:30	Basis:	Wet Weight
Seq Number:	3119216				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**120**	50.0	mg/kg	03.10.2020 13:23		1
Diesel Range Organics (DRO)	C10C28DRO	**4080**	50.0	mg/kg	03.10.2020 13:23		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**646**	50.0	mg/kg	03.10.2020 13:23		1
Total TPH	PHC635	**4850**	50.0	mg/kg	03.10.2020 13:23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	03.10.2020 13:23	
o-Terphenyl	84-15-1	116	%	70-135	03.10.2020 13:23	

Certificate of Analytical Results 655065

Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-6 W 0.5'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-011	Date Collected:	03.09.2020 11:11		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.15.2020 10:15	Basis:	Wet Weight
Seq Number:	3119699				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.15.2020 17:12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.15.2020 17:12	U	1
Ethylbenzene	100-41-4	**0.0237**	0.00199	mg/kg	03.15.2020 17:12		1
m,p-Xylenes	179601-23-1	**0.0875**	0.00398	mg/kg	03.15.2020 17:12		1
o-Xylene	95-47-6	**0.0319**	0.00199	mg/kg	03.15.2020 17:12		1
Total Xylenes	1330-20-7	**0.119**	0.00199	mg/kg	03.15.2020 17:12		1
Total BTEX		**0.143**	0.00199	mg/kg	03.15.2020 17:12		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	03.15.2020 17:12	
1,4-Difluorobenzene	540-36-3	93	%	70-130	03.15.2020 17:12	

Certificate of Analytical Results 655065

Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-6 W 1'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-012	Date Collected:	03.09.2020 11:16		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.10.2020 09:50	Basis:	Wet Weight
Seq Number:	3119152				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22.7**	5.02	mg/kg	03.10.2020 13:33		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.10.2020 09:30	Basis:	Wet Weight
Seq Number:	3119216				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**252**	49.9	mg/kg	03.10.2020 13:42		1
Diesel Range Organics (DRO)	C10C28DRO	**3000**	49.9	mg/kg	03.10.2020 13:42		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**522**	49.9	mg/kg	03.10.2020 13:42		1
Total TPH	PHC635	**3770**	49.9	mg/kg	03.10.2020 13:42		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	03.10.2020 13:42	
o-Terphenyl	84-15-1	128	%	70-135	03.10.2020 13:42	

Certificate of Analytical Results 655065

Larson and Associates, Inc., Midland, TX

Talco 25

Sample Id:	**SP-6 W 1'**	Matrix:	Soil	Date Received:	03.09.2020 15:32
Lab Sample Id:	655065-012	Date Collected:	03.09.2020 11:16		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.15.2020 10:15	Basis:	Wet Weight
Seq Number:	3119699				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.15.2020 17:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.15.2020 17:32	U	1
Ethylbenzene	100-41-4	**0.0134**	0.00200	mg/kg	03.15.2020 17:32		1
m,p-Xylenes	179601-23-1	**0.0989**	0.00399	mg/kg	03.15.2020 17:32		1
o-Xylene	95-47-6	**0.0579**	0.00200	mg/kg	03.15.2020 17:32		1
Total Xylenes	1330-20-7	**0.157**	0.00200	mg/kg	03.15.2020 17:32		1
Total BTEX		**0.170**	0.00200	mg/kg	03.15.2020 17:32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	88	%	70-130	03.15.2020 17:32	
4-Bromofluorobenzene	460-00-4	168	%	70-130	03.15.2020 17:32	**

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 QA 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. **ND** Not Detected.

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 Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory 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

QC Summary 655065

Larson and Associates, Inc.

Talco 25

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119152 — Matrix: Solid — Date Prep: 03.10.2020
MB Sample Id: 7698441-1-BLK — LCS Sample Id: 7698441-1-BKS — LCSD Sample Id: 7698441-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	254	102	90-110	0	20	mg/kg	03.10.2020 10:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119152 — Matrix: Soil — Date Prep: 03.10.2020
Parent Sample Id: 655065-001 — MS Sample Id: 655065-001 S — MSD Sample Id: 655065-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2.63	253	269	105	268	105	90-110	0	20	mg/kg	03.10.2020 10:31	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119152 — Matrix: Soil — Date Prep: 03.10.2020
Parent Sample Id: 655065-011 — MS Sample Id: 655065-011 S — MSD Sample Id: 655065-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	149	250	409	104	406	103	90-110	1	20	mg/kg	03.10.2020 13:14	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119216 — Matrix: Solid — Date Prep: 03.10.2020
MB Sample Id: 7698502-1-BLK — LCS Sample Id: 7698502-1-BKS — LCSD Sample Id: 7698502-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	927	93	913	91	70-135	2	20	mg/kg	03.10.2020 09:01	
Diesel Range Organics (DRO)	<15.0	1000	1020	102	991	99	70-135	3	20	mg/kg	03.10.2020 09:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	86		104		103		70-135	%	03.10.2020 09:01
o-Terphenyl	89		98		100		70-135	%	03.10.2020 09:01

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119216 — Matrix: Solid — Date Prep: 03.10.2020
MB Sample Id: 7698502-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.10.2020 08:42	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 655065

Larson and Associates, Inc.

Talco 25

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3119216 Matrix: Soil Date Prep: 03.10.2020
Parent Sample Id: 655065-001 MS Sample Id: 655065-001 S MSD Sample Id: 655065-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	910	91	912	92	70-135	0	20	mg/kg	03.10.2020 09:56	
Diesel Range Organics (DRO)	22.5	997	986	97	1000	98	70-135	1	20	mg/kg	03.10.2020 09:56	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		103		70-135	%	03.10.2020 09:56
o-Terphenyl	98		100		70-135	%	03.10.2020 09:56

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3119699 Matrix: Solid Date Prep: 03.15.2020
MB Sample Id: 7698912-1-BLK LCS Sample Id: 7698912-1-BKS LCSD Sample Id: 7698912-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.108	108	0.106	106	70-130	2	35	mg/kg	03.15.2020 12:12	
Toluene	<0.000456	0.100	0.111	111	0.107	107	70-130	4	35	mg/kg	03.15.2020 12:12	
Ethylbenzene	<0.000565	0.100	0.110	110	0.104	104	70-130	6	35	mg/kg	03.15.2020 12:12	
m,p-Xylenes	<0.00101	0.200	0.219	110	0.205	103	70-130	7	35	mg/kg	03.15.2020 12:12	
o-Xylene	<0.000344	0.100	0.108	108	0.101	101	70-130	7	35	mg/kg	03.15.2020 12:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		107		106		70-130	%	03.15.2020 12:12
4-Bromofluorobenzene	67	**	91		91		70-130	%	03.15.2020 12:12

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3119699 Matrix: Soil Date Prep: 03.15.2020
Parent Sample Id: 655065-001 MS Sample Id: 655065-001 S MSD Sample Id: 655065-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000382	0.0992	0.0818	82	0.114	114	70-130	33	35	mg/kg	03.15.2020 12:52	
Toluene	0.000560	0.0992	0.0988	99	0.111	111	70-130	12	35	mg/kg	03.15.2020 12:52	
Ethylbenzene	0.00129	0.0992	0.0984	98	0.107	106	70-130	8	35	mg/kg	03.15.2020 12:52	
m,p-Xylenes	0.00488	0.198	0.195	96	0.211	103	70-130	8	35	mg/kg	03.15.2020 12:52	
o-Xylene	0.00316	0.0992	0.0968	94	0.103	100	70-130	6	35	mg/kg	03.15.2020 12:52	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		111		70-130	%	03.15.2020 12:52
4-Bromofluorobenzene	80		93		70-130	%	03.15.2020 12:52

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Nº 0890

Q55065

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 3/09/2020 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Talco 23

LAI PROJECT #: 20-0107-07 COLLECTOR: DSIRN

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST/NM

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TBLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
SP-1 NW 0.5'		3/9/20	1036	S	1				X		X		X	X	X													X	
SP-1 NW 1'			1038	S																									
SP-2 NE 0.5'			1044																										
SP-2 NE 1'			1048																										
SP-3 E 0.5'			1050																										
SP-3 E 1'			1052																										
SP-4 SE 0.5'			1055																										
SP-4 SE 1'			1101																										
SP-5 SW 0.5'			1108																										
SP-5 SW 1'			1107																										
SP-6 W 0.5'			1114																										
SP-6 W 1'			1116																										
TOTAL					12																								

RELINQUISHED BY:(Signature) Daniel Sotelo DATE/TIME 1532 3/9/20 RECEIVED BY: (Signature) Stramer

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY:

TURN AROUND TIME
NORMAL ☐
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 5.1/4.8 THERM#: R9
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 03.09.2020 03.32.00 PM

Work Order #: 655065

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.8
#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?	**No**
#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 Date: 03.10.2020

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 03.16.2020

Holly Taylor

Certificate of Analysis Summary 656298

Larson and Associates, Inc., Midland, TX

Project Name: Taclo 25 25 35 Fed #001H

Project Id: 20-0107-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 03.19.2020 16:04
Report Date: 03.23.2020 15:07
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	656298-001		656298-002		656298-003		656298-004					
	Field Id:	SP-7 (0.5')		SP-7 (1')		SP-8 (0.5')		SP-8 (1')					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	03.19.2020 10:48		03.19.2020 10:50		03.19.2020 11:10		03.19.2020 11:11					
BTEX by EPA 8021B	***Extracted:***	03.21.2020 09:00		03.21.2020 09:00		03.21.2020 09:00		03.21.2020 09:00					
	Analyzed:	03.21.2020 23:17		03.21.2020 23:38		03.21.2020 23:58		03.22.2020 01:21					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201				
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201				
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201				
m,p-Xylenes		<0.00399	0.00399	<0.00398	0.00398	<0.00399	0.00399	<0.00402	0.00402				
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201				
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201				
Total BTEX		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201				
Chloride by EPA 300	***Extracted:***	03.20.2020 08:30		03.20.2020 08:30		03.20.2020 08:30		03.20.2020 08:30					
	Analyzed:	03.20.2020 10:21		03.20.2020 10:26		03.20.2020 09:39		03.20.2020 10:31					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		56.4	25.2	17.6	4.98	<4.96	4.96	7.62	4.96				
TPH by SW8015 Mod	***Extracted:***	03.20.2020 16:00		03.20.2020 16:00		03.20.2020 16:00		03.20.2020 16:00					
	Analyzed:	03.20.2020 19:32		03.20.2020 20:26		03.20.2020 20:45		03.20.2020 21:03					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9				
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9				
Total TPH		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9				

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Analytical Report 656298

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Taclo 25 25 35 Fed #001H

20-0107-07

03.23.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

03.23.2020

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: XENCO Report No(s): **656298**
Taclo 25 25 35 Fed #001H
Project Address:

Mark Larson :

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) 656298. 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. 656298 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,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 656298

Larson and Associates, Inc., Midland, TX

Taclo 25 25 35 Fed #001H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-7 (0.5')	S	03.19.2020 10:48		656298-001
SP-7 (1')	S	03.19.2020 10:50		656298-002
SP-8 (0.5')	S	03.19.2020 11:10		656298-003
SP-8 (1')	S	03.19.2020 11:11		656298-004

CASE NARRATIVE

Client Name: Larson and Associates, Inc.

Project Name: Taclo 25 25 35 Fed #001H

Project ID: *20-0107-07*
Work Order Number(s): *656298*

Report Date: *03.23.2020*
Date Received: *03.19.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3120574 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 656298

Larson and Associates, Inc., Midland, TX

Taclo 25 25 35 Fed #001H

Sample Id:	**SP-7 (0.5')**	Matrix:	Soil	Date Received:	03.19.2020 16:04
Lab Sample Id:	656298-001	Date Collected:	03.19.2020 10:48		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 08:30	Basis:	Wet Weight
Seq Number:	3120517				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**56.4**	25.2	mg/kg	03.20.2020 10:21		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 16:00	Basis:	Wet Weight
Seq Number:	3120509				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.20.2020 19:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.20.2020 19:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.20.2020 19:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.20.2020 19:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	03.20.2020 19:32	
o-Terphenyl	84-15-1	93	%	70-135	03.20.2020 19:32	

Certificate of Analytical Results 656298

Larson and Associates, Inc., Midland, TX

Taclo 25 25 35 Fed #001H

Sample Id:	**SP-7 (0.5')**	Matrix:	Soil	Date Received:	03.19.2020 16:04
Lab Sample Id:	656298-001	Date Collected:	03.19.2020 10:48		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.21.2020 09:00	Basis:	Wet Weight
Seq Number:	3120574				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.21.2020 23:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.21.2020 23:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.21.2020 23:17	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.21.2020 23:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.21.2020 23:17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.21.2020 23:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.21.2020 23:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	03.21.2020 23:17	
4-Bromofluorobenzene	460-00-4	106	%	70-130	03.21.2020 23:17	

Certificate of Analytical Results 656298

Larson and Associates, Inc., Midland, TX

Taclo 25 25 35 Fed #001H

Sample Id:	**SP-7 (1')**	Matrix:	Soil	Date Received:	03.19.2020 16:04
Lab Sample Id:	656298-002	Date Collected:	03.19.2020 10:50		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 08:30	Basis:	Wet Weight
Seq Number:	3120517				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**17.6**	4.98	mg/kg	03.20.2020 10:26		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 16:00	Basis:	Wet Weight
Seq Number:	3120509				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.20.2020 20:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.20.2020 20:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.20.2020 20:26	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.20.2020 20:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	03.20.2020 20:26	
o-Terphenyl	84-15-1	92	%	70-135	03.20.2020 20:26	

Certificate of Analytical Results 656298

Larson and Associates, Inc., Midland, TX

Taclo 25 25 35 Fed #001H

Sample Id:	**SP-7 (1')**	Matrix:	Soil	Date Received:	03.19.2020 16:04
Lab Sample Id:	656298-002	Date Collected:	03.19.2020 10:50		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.21.2020 09:00	Basis:	Wet Weight
Seq Number:	3120574				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.21.2020 23:38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.21.2020 23:38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.21.2020 23:38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.21.2020 23:38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.21.2020 23:38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.21.2020 23:38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.21.2020 23:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	03.21.2020 23:38	
1,4-Difluorobenzene	540-36-3	99	%	70-130	03.21.2020 23:38	

Certificate of Analytical Results 656298

Larson and Associates, Inc., Midland, TX

Taclo 25 25 35 Fed #001H

Sample Id:	**SP-8 (0.5')**	Matrix:	Soil	Date Received:	03.19.2020 16:04
Lab Sample Id:	656298-003	Date Collected:	03.19.2020 11:10		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 08:30	Basis:	Wet Weight
Seq Number:	3120517				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	03.20.2020 09:39	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 16:00	Basis:	Wet Weight
Seq Number:	3120509				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.20.2020 20:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.20.2020 20:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.20.2020 20:45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.20.2020 20:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	03.20.2020 20:45	
o-Terphenyl	84-15-1	91	%	70-135	03.20.2020 20:45	

Certificate of Analytical Results 656298

Larson and Associates, Inc., Midland, TX

Taclo 25 25 35 Fed #001H

Sample Id:	**SP-8 (0.5')**	Matrix:	Soil	Date Received:	03.19.2020 16:04
Lab Sample Id:	656298-003	Date Collected:	03.19.2020 11:10		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.21.2020 09:00	Basis:	Wet Weight
Seq Number:	3120574				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.21.2020 23:58	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.21.2020 23:58	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.21.2020 23:58	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.21.2020 23:58	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.21.2020 23:58	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.21.2020 23:58	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.21.2020 23:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	03.21.2020 23:58	
1,4-Difluorobenzene	540-36-3	98	%	70-130	03.21.2020 23:58	

Certificate of Analytical Results 656298

Larson and Associates, Inc., Midland, TX

Taclo 25 25 35 Fed #001H

Sample Id:	**SP-8 (1')**	Matrix:	Soil	Date Received:	03.19.2020 16:04
Lab Sample Id:	656298-004	Date Collected:	03.19.2020 11:11		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 08:30	Basis:	Wet Weight
Seq Number:	3120517				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.62**	4.96	mg/kg	03.20.2020 10:31		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 16:00	Basis:	Wet Weight
Seq Number:	3120509				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.20.2020 21:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.20.2020 21:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.20.2020 21:03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.20.2020 21:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	03.20.2020 21:03	
o-Terphenyl	84-15-1	89	%	70-135	03.20.2020 21:03	

Certificate of Analytical Results 656298

Larson and Associates, Inc., Midland, TX

Taclo 25 25 35 Fed #001H

Sample Id:	**SP-8 (1')**	Matrix:	Soil	Date Received:	03.19.2020 16:04
Lab Sample Id:	656298-004	Date Collected:	03.19.2020 11:11		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.21.2020 09:00	Basis:	Wet Weight
Seq Number:	3120574				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.22.2020 01:21	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.22.2020 01:21	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.22.2020 01:21	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.22.2020 01:21	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.22.2020 01:21	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.22.2020 01:21	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.22.2020 01:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	03.22.2020 01:21	
4-Bromofluorobenzene	460-00-4	96	%	70-130	03.22.2020 01:21	

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 QA 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. **ND** Not Detected.

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 Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory 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

QC Summary 656298

Larson and Associates, Inc.

Taclo 25 25 35 Fed #001H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120517 — Matrix: Solid — Date Prep: 03.20.2020
MB Sample Id: 7699378-1-BLK — LCS Sample Id: 7699378-1-BKS — LCSD Sample Id: 7699378-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	254	102	255	102	90-110	0	20	mg/kg	03.20.2020 09:28	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120517 — Matrix: Soil — Date Prep: 03.20.2020
Parent Sample Id: 656192-008 — MS Sample Id: 656192-008 S — MSD Sample Id: 656192-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	93.9	250	339	98	344	100	90-110	1	20	mg/kg	03.20.2020 11:24	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120517 — Matrix: Soil — Date Prep: 03.20.2020
Parent Sample Id: 656298-003 — MS Sample Id: 656298-003 S — MSD Sample Id: 656298-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2.21	248	251	100	248	99	90-110	1	20	mg/kg	03.20.2020 09:44	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3120509 — Matrix: Solid — Date Prep: 03.20.2020
MB Sample Id: 7699421-1-BLK — LCS Sample Id: 7699421-1-BKS — LCSD Sample Id: 7699421-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	934	93	922	92	70-135	1	20	mg/kg	03.20.2020 18:55	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	1030	103	70-135	0	20	mg/kg	03.20.2020 18:55	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	86		108		107		70-135	%	03.20.2020 18:55
o-Terphenyl	91		102		99		70-135	%	03.20.2020 18:55

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3120509 — Matrix: Solid — Date Prep: 03.20.2020
MB Sample Id: 7699421-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.20.2020 18:37	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 656298

Larson and Associates, Inc.

Taclo 25 25 35 Fed #001H

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3120509 — Matrix: Soil — Date Prep: 03.20.2020
Parent Sample Id: 656298-001 — MS Sample Id: 656298-001 S — MSD Sample Id: 656298-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	923	93	922	93	70-135	0	20	mg/kg	03.20.2020 19:50	
Diesel Range Organics (DRO)	<49.9	997	1030	103	1030	103	70-135	0	20	mg/kg	03.20.2020 19:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		102		70-135	%	03.20.2020 19:50
o-Terphenyl	99		98		70-135	%	03.20.2020 19:50

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3120574 — Matrix: Solid — Date Prep: 03.21.2020
MB Sample Id: 7699497-1-BLK — LCS Sample Id: 7699497-1-BKS — LCSD Sample Id: 7699497-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0910	91	0.0909	91	70-130	0	35	mg/kg	03.21.2020 18:33	
Toluene	<0.00200	0.100	0.0890	89	0.0908	91	70-130	2	35	mg/kg	03.21.2020 18:33	
Ethylbenzene	<0.00200	0.100	0.0878	88	0.0925	93	70-130	5	35	mg/kg	03.21.2020 18:33	
m,p-Xylenes	<0.00400	0.200	0.174	87	0.184	92	70-130	6	35	mg/kg	03.21.2020 18:33	
o-Xylene	<0.00200	0.100	0.0900	90	0.0923	92	70-130	3	35	mg/kg	03.21.2020 18:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		97		98		70-130	%	03.21.2020 18:33
4-Bromofluorobenzene	96		99		97		70-130	%	03.21.2020 18:33

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3120574 — Matrix: Soil — Date Prep: 03.21.2020
Parent Sample Id: 655881-063 — MS Sample Id: 655881-063 S — MSD Sample Id: 655881-063 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0906	91	0.0672	68	70-130	30	35	mg/kg	03.21.2020 19:13	X
Toluene	<0.00200	0.0998	0.0768	77	0.0547	55	70-130	34	35	mg/kg	03.21.2020 19:13	X
Ethylbenzene	<0.00200	0.0998	0.0756	76	0.0525	53	70-130	36	35	mg/kg	03.21.2020 19:13	XF
m,p-Xylenes	<0.00399	0.200	0.147	74	0.102	52	70-130	36	35	mg/kg	03.21.2020 19:13	XF
o-Xylene	<0.00200	0.0998	0.0801	80	0.0597	60	70-130	29	35	mg/kg	03.21.2020 19:13	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		95		70-130	%	03.21.2020 19:13
4-Bromofluorobenzene	101		99		70-130	%	03.21.2020 19:13

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Nº 1005

E056298

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 3/19/2020 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: TALCO 25 25 35 FED #001H

LAI PROJECT #: 20-0107-07 COLLECTOR: DS/EC

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST / NM

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
SP-7 (0.5')		3/19/20	1048	S	1				X		BTEX ☒ MTBE ☐ TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☒ DIESEL - MOD 8015 ☒ OIL - MOD 8015 ☒ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBS ☐ TBLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	
SP-7 (1')			1050									
SP-8 (0.5)			1110									
SP-8 (1')			1111									
TOTAL		4										

RELINQUISHED BY:(Signature) Daniel A Stefanno DATE/TIME 3/19/20 RECEIVED BY:(Signature) 1600

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: XENCO

TURN AROUND TIME
NORMAL ☐
1 DAY ☐
2 DAY ☐
OTHER ☒
4 days

LABORATORY USE ONLY:
RECEIVING TEMP: 3.1.0 THERM#: R9
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 03.19.2020 04.04.00 PM

Work Order #: 656298

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#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?	**No**
#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 Date: 03.19.2020

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 03.23.2020

Holly Taylor

Certificate of Analysis Summary 657072

Larson and Associates, Inc., Midland, TX

Project Name: Chevron -Talco

Project Id: 20-0107-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Fri 03.27.2020 08:21
Report Date: 04.02.2020 15:42
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	657072-001		657072-002		657072-003		657072-004		657072-005		657072-006	
	Field Id:	SP-6,2'		SP-6,3'		SP-6,4'		SP-6,5'		SP-6,10'		SP-3,2'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	03.25.2020 11:12		03.25.2020 11:14		03.25.2020 11:15		03.25.2020 11:20		03.25.2020 11:21		03.26.2020 12:08	
BTEX by EPA 8021B	***Extracted:***	04.01.2020 16:00		04.01.2020 16:00								04.01.2020 16:00	
	Analyzed:	04.02.2020 05:23		04.02.2020 05:43								04.02.2020 06:04	
	Units/RL:	mg/kg	RL	mg/kg	RL							mg/kg	RL
Benzene		<0.00202	0.00202	<0.00200	0.00200							<0.00199	0.00199
Toluene		<0.00202	0.00202	<0.00200	0.00200							<0.00199	0.00199
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200							<0.00199	0.00199
m,p-Xylenes		<0.00403	0.00403	<0.00399	0.00399							0.0355	0.00398
o-Xylene		<0.00202	0.00202	<0.00200	0.00200							0.0335	0.00199
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200							0.0690	0.00199
Total BTEX		<0.00202	0.00202	<0.00200	0.00200							0.0690	0.00199
Chloride by EPA 300	***Extracted:***	03.27.2020 18:15		03.27.2020 18:15		03.27.2020 18:15		03.27.2020 18:15		03.30.2020 11:30		03.30.2020 11:30	
	Analyzed:	03.27.2020 23:46		03.27.2020 23:51		03.27.2020 23:57		03.28.2020 00:02		03.30.2020 14:10		03.30.2020 14:16	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		139	24.8	21.3	4.95	20.8	5.02	26.1	24.9	137	5.01	<4.99	4.99
TPH by SW8015 Mod	***Extracted:***	03.31.2020 11:00		03.31.2020 11:00		03.31.2020 11:00		03.31.2020 11:00		03.31.2020 11:00		03.31.2020 11:00	
	Analyzed:	03.31.2020 12:31		03.31.2020 13:36		03.31.2020 13:57		03.31.2020 14:17		03.31.2020 14:38		03.31.2020 14:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0
Total TPH		<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Certificate of Analysis Summary 657072

Larson and Associates, Inc., Midland, TX

Project Name: Chevron -Talco

Project Id: 20-0107-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Fri 03.27.2020 08:21
Report Date: 04.02.2020 15:42
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	657072-007		657072-008		657072-009		657072-010					
	Field Id:	SP-3,3'		SP-3,4'		SP-3,5'		SP-3,6'					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	03.26.2020 12:09		03.26.2020 12:10		03.26.2020 12:11		03.26.2020 12:15					
BTEX by EPA 8021B	***Extracted:***	04.01.2020 16:00											
	Analyzed:	04.02.2020 06:24											
	Units/RL:	mg/kg	RL										
Benzene		<0.00199	0.00199										
Toluene		<0.00199	0.00199										
Ethylbenzene		<0.00199	0.00199										
m,p-Xylenes		0.0329	0.00398										
o-Xylene		0.0279	0.00199										
Total Xylenes		0.0608	0.00199										
Total BTEX		0.0608	0.00199										
Chloride by EPA 300	***Extracted:***	03.30.2020 11:30		03.30.2020 11:30		03.30.2020 11:30		03.30.2020 11:30					
	Analyzed:	03.30.2020 14:35		03.30.2020 14:41		03.30.2020 15:00		03.30.2020 15:07					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		11.2	5.02	8.77	4.99	<4.96	4.96	<4.95	4.95				
TPH by SW8015 Mod	***Extracted:***	03.31.2020 11:00		03.31.2020 11:00		03.31.2020 11:00		03.31.2020 11:00					
	Analyzed:	03.31.2020 15:20		03.31.2020 15:40		03.31.2020 16:01		03.31.2020 16:22					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8				
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8				
Total TPH		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8				

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Analytical Report 657072

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Chevron -Talco

20-0107-07

04.02.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.02.2020

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: XENCO Report No(s): **657072**
Chevron -Talco
Project Address:

Mark Larson :

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) 657072. 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. 657072 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,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-6,2'	S	03.25.2020 11:12		657072-001
SP-6,3'	S	03.25.2020 11:14		657072-002
SP-6,4'	S	03.25.2020 11:15		657072-003
SP-6,5'	S	03.25.2020 11:20		657072-004
SP-6,10'	S	03.25.2020 11:21		657072-005
SP-3,2'	S	03.26.2020 12:08		657072-006
SP-3,3'	S	03.26.2020 12:09		657072-007
SP-3,4'	S	03.26.2020 12:10		657072-008
SP-3,5'	S	03.26.2020 12:11		657072-009
SP-3,6'	S	03.26.2020 12:15		657072-010

CASE NARRATIVE

Client Name: Larson and Associates, Inc.

Project Name: Chevron -Talco

Project ID:	*20-0107-07*	Report Date:	*04.02.2020*
Work Order Number(s):	*657072*	Date Received:	*03.27.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3121690 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id: **SP-6,2'** Matrix: Soil Date Received:03.27.2020 08:21

Lab Sample Id: 657072-001 Date Collected: 03.25.2020 11:12

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 03.27.2020 18:15 Basis: Wet Weight

Seq Number: 3121272

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**139**	24.8	mg/kg	03.27.2020 23:46		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 03.31.2020 11:00 Basis: Wet Weight

Seq Number: 3121604

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.31.2020 12:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.31.2020 12:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.31.2020 12:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.31.2020 12:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	03.31.2020 12:31	
o-Terphenyl	84-15-1	107	%	70-130	03.31.2020 12:31	

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id:	**SP-6,2'**	Matrix:	Soil	Date Received:	03.27.2020 08:21
Lab Sample Id:	657072-001	Date Collected:	03.25.2020 11:12		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.01.2020 16:00	Basis:	Wet Weight
Seq Number:	3121690				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.02.2020 05:23	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.02.2020 05:23	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.02.2020 05:23	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	04.02.2020 05:23	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.02.2020 05:23	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.02.2020 05:23	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.02.2020 05:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	04.02.2020 05:23	
1,4-Difluorobenzene	540-36-3	112	%	70-130	04.02.2020 05:23	

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id: **SP-6,3'** Matrix: Soil Date Received:03.27.2020 08:21

Lab Sample Id: 657072-002 Date Collected: 03.25.2020 11:14

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 03.27.2020 18:15 Basis: Wet Weight

Seq Number: 3121272

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21.3**	4.95	mg/kg	03.27.2020 23:51		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 03.31.2020 11:00 Basis: Wet Weight

Seq Number: 3121604

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.31.2020 13:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.31.2020 13:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.31.2020 13:36	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.31.2020 13:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	03.31.2020 13:36	
o-Terphenyl	84-15-1	112	%	70-130	03.31.2020 13:36	

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id:	**SP-6,3'**	Matrix:	Soil	Date Received:	03.27.2020 08:21
Lab Sample Id:	657072-002	Date Collected:	03.25.2020 11:14		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.01.2020 16:00	Basis:	Wet Weight
Seq Number:	3121690				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.02.2020 05:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.02.2020 05:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.02.2020 05:43	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.02.2020 05:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.02.2020 05:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.02.2020 05:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.02.2020 05:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	116	%	70-130	04.02.2020 05:43	
4-Bromofluorobenzene	460-00-4	112	%	70-130	04.02.2020 05:43	

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id:	**SP-6,4'**	Matrix:	Soil	Date Received:	03.27.2020 08:21
Lab Sample Id:	657072-003	Date Collected:	03.25.2020 11:15		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.27.2020 18:15	Basis:	Wet Weight
Seq Number:	3121272				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**20.8**	5.02	mg/kg	03.27.2020 23:57		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.31.2020 11:00	Basis:	Wet Weight
Seq Number:	3121604				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.31.2020 13:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.31.2020 13:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.31.2020 13:57	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.31.2020 13:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	03.31.2020 13:57	
o-Terphenyl	84-15-1	105	%	70-130	03.31.2020 13:57	

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id:	**SP-6,5'**	Matrix:	Soil	Date Received:	03.27.2020 08:21
Lab Sample Id:	657072-004	Date Collected:	03.25.2020 11:20		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.27.2020 18:15	Basis:	Wet Weight
Seq Number:	3121272				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**26.1**	24.9	mg/kg	03.28.2020 00:02		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.31.2020 11:00	Basis:	Wet Weight
Seq Number:	3121604				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.31.2020 14:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.31.2020 14:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.31.2020 14:17	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.31.2020 14:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	03.31.2020 14:17	
o-Terphenyl	84-15-1	110	%	70-130	03.31.2020 14:17	

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id: **SP-6,10'** Matrix: Soil Date Received:03.27.2020 08:21
Lab Sample Id: 657072-005 Date Collected: 03.25.2020 11:21

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: SPC % Moisture:
Analyst: SPC Date Prep: 03.30.2020 11:30 Basis: Wet Weight
Seq Number: 3121356

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**137**	5.01	mg/kg	03.30.2020 14:10		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 03.31.2020 11:00 Basis: Wet Weight
Seq Number: 3121604

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.31.2020 14:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.31.2020 14:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.31.2020 14:38	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.31.2020 14:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	03.31.2020 14:38	
o-Terphenyl	84-15-1	117	%	70-130	03.31.2020 14:38	

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id: **SP-3,2'** Matrix: Soil Date Received:03.27.2020 08:21

Lab Sample Id: 657072-006 Date Collected: 03.26.2020 12:08

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 03.30.2020 11:30 Basis: Wet Weight

Seq Number: 3121356

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	03.30.2020 14:16	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 03.31.2020 11:00 Basis: Wet Weight

Seq Number: 3121604

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.31.2020 14:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.31.2020 14:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.31.2020 14:59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.31.2020 14:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	03.31.2020 14:59	
o-Terphenyl	84-15-1	104	%	70-130	03.31.2020 14:59	

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id:	**SP-3,2'**	Matrix:	Soil	Date Received:	03.27.2020 08:21
Lab Sample Id:	657072-006	Date Collected:	03.26.2020 12:08		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.01.2020 16:00	Basis:	Wet Weight
Seq Number:	3121690				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.02.2020 06:04	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.02.2020 06:04	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.02.2020 06:04	U	1
m,p-Xylenes	179601-23-1	**0.0355**	0.00398	mg/kg	04.02.2020 06:04		1
o-Xylene	95-47-6	**0.0335**	0.00199	mg/kg	04.02.2020 06:04		1
Total Xylenes	1330-20-7	**0.0690**	0.00199	mg/kg	04.02.2020 06:04		1
Total BTEX		**0.0690**	0.00199	mg/kg	04.02.2020 06:04		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	04.02.2020 06:04	
1,4-Difluorobenzene	540-36-3	111	%	70-130	04.02.2020 06:04	

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id:	**SP-3,3'**	Matrix:	Soil	Date Received:	03.27.2020 08:21
Lab Sample Id:	657072-007	Date Collected:	03.26.2020 12:09		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	03.30.2020 11:30	Basis:	Wet Weight
Seq Number:	3121356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11.2**	5.02	mg/kg	03.30.2020 14:35		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.31.2020 11:00	Basis:	Wet Weight
Seq Number:	3121604				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.31.2020 15:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.31.2020 15:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.31.2020 15:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.31.2020 15:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	03.31.2020 15:20	
o-Terphenyl	84-15-1	105	%	70-130	03.31.2020 15:20	

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id:	**SP-3,3'**	Matrix:	Soil	Date Received:	03.27.2020 08:21
Lab Sample Id:	657072-007	Date Collected:	03.26.2020 12:09		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.01.2020 16:00	Basis:	Wet Weight
Seq Number:	3121690				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.02.2020 06:24	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.02.2020 06:24	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.02.2020 06:24	U	1
m,p-Xylenes	179601-23-1	**0.0329**	0.00398	mg/kg	04.02.2020 06:24		1
o-Xylene	95-47-6	**0.0279**	0.00199	mg/kg	04.02.2020 06:24		1
Total Xylenes	1330-20-7	**0.0608**	0.00199	mg/kg	04.02.2020 06:24		1
Total BTEX		**0.0608**	0.00199	mg/kg	04.02.2020 06:24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	04.02.2020 06:24	
1,4-Difluorobenzene	540-36-3	112	%	70-130	04.02.2020 06:24	

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id: **SP-3,4'** Matrix: Soil Date Received:03.27.2020 08:21

Lab Sample Id: 657072-008 Date Collected: 03.26.2020 12:10

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 03.30.2020 11:30 Basis: Wet Weight

Seq Number: 3121356

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.77**	4.99	mg/kg	03.30.2020 14:41		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 03.31.2020 11:00 Basis: Wet Weight

Seq Number: 3121604

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.31.2020 15:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.31.2020 15:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.31.2020 15:40	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.31.2020 15:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	03.31.2020 15:40	
o-Terphenyl	84-15-1	108	%	70-130	03.31.2020 15:40	

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id:	**SP-3,5'**	Matrix:	Soil	Date Received:	03.27.2020 08:21
Lab Sample Id:	657072-009	Date Collected:	03.26.2020 12:11		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	03.30.2020 11:30	Basis:	Wet Weight
Seq Number:	3121356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	03.30.2020 15:00	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.31.2020 11:00	Basis:	Wet Weight
Seq Number:	3121604				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.31.2020 16:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.31.2020 16:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.31.2020 16:01	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.31.2020 16:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	03.31.2020 16:01	
o-Terphenyl	84-15-1	110	%	70-130	03.31.2020 16:01	

Certificate of Analytical Results 657072

Larson and Associates, Inc., Midland, TX

Chevron -Talco

Sample Id: **SP-3,6'** Matrix: Soil Date Received:03.27.2020 08:21
Lab Sample Id: 657072-010 Date Collected: 03.26.2020 12:15

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: SPC % Moisture:
Analyst: SPC Date Prep: 03.30.2020 11:30 Basis: Wet Weight
Seq Number: 3121356

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	03.30.2020 15:07	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 03.31.2020 11:00 Basis: Wet Weight
Seq Number: 3121604

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.31.2020 16:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.31.2020 16:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.31.2020 16:22	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.31.2020 16:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	03.31.2020 16:22	
o-Terphenyl	84-15-1	102	%	70-130	03.31.2020 16:22	

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 QA 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. **ND** Not Detected.

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 Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory 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

QC Summary 657072

Larson and Associates, Inc.

Chevron -Talco

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121272 — Matrix: Solid — Date Prep: 03.27.2020
MB Sample Id: 7699975-1-BLK — LCS Sample Id: 7699975-1-BKS — LCSD Sample Id: 7699975-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	246	98	90-110	4	20	mg/kg	03.27.2020 21:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121356 — Matrix: Solid — Date Prep: 03.30.2020
MB Sample Id: 7700049-1-BLK — LCS Sample Id: 7700049-1-BKS — LCSD Sample Id: 7700049-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	259	104	258	103	90-110	0	20	mg/kg	03.30.2020 12:37	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121272 — Matrix: Soil — Date Prep: 03.27.2020
Parent Sample Id: 656937-110 — MS Sample Id: 656937-110 S — MSD Sample Id: 656937-110 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	17.9	250	250	93	280	105	90-110	11	20	mg/kg	03.27.2020 21:55	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121272 — Matrix: Soil — Date Prep: 03.27.2020
Parent Sample Id: 656937-113 — MS Sample Id: 656937-113 S — MSD Sample Id: 656937-113 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.5	251	248	94	286	109	90-110	14	20	mg/kg	03.27.2020 23:09	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121356 — Matrix: Soil — Date Prep: 03.30.2020
Parent Sample Id: 657072-006 — MS Sample Id: 657072-006 S — MSD Sample Id: 657072-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.99	250	263	105	265	106	90-110	1	20	mg/kg	03.30.2020 14:22	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121356 — Matrix: Soil — Date Prep: 03.30.2020
Parent Sample Id: 657151-014 — MS Sample Id: 657151-014 S — MSD Sample Id: 657151-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1.53	249	257	103	250	100	90-110	3	20	mg/kg	03.30.2020 12:58	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 657072

Larson and Associates, Inc.

Chevron -Talco

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3121604 — Matrix: Solid — Date Prep: 03.31.2020
MB Sample Id: 7700206-1-BLK — LCS Sample Id: 7700206-1-BKS — LCSD Sample Id: 7700206-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	946	95	950	95	70-130	0	20	mg/kg	03.31.2020 11:49	
Diesel Range Organics (DRO)	<50.0	1000	1090	109	1090	109	70-130	0	20	mg/kg	03.31.2020 11:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		91		93		70-130	%	03.31.2020 11:49
o-Terphenyl	102		106		102		70-130	%	03.31.2020 11:49

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3121604 — Matrix: Solid — Date Prep: 03.31.2020
MB Sample Id: 7700206-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.31.2020 11:28	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3121604 — Matrix: Soil — Date Prep: 03.31.2020
Parent Sample Id: 657072-001 — MS Sample Id: 657072-001 S — MSD Sample Id: 657072-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	946	95	819	82	70-130	14	20	mg/kg	03.31.2020 12:52	
Diesel Range Organics (DRO)	<49.9	997	1100	110	964	97	70-130	13	20	mg/kg	03.31.2020 12:52	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	91		79		70-130	%	03.31.2020 12:52
o-Terphenyl	105		90		70-130	%	03.31.2020 12:52

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3121690 — Matrix: Solid — Date Prep: 04.01.2020
MB Sample Id: 7700315-1-BLK — LCS Sample Id: 7700315-1-BKS — LCSD Sample Id: 7700315-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0861	86	0.0835	84	70-130	3	35	mg/kg	04.02.2020 02:58	
Toluene	<0.00200	0.100	0.0904	90	0.0865	87	70-130	4	35	mg/kg	04.02.2020 02:58	
Ethylbenzene	<0.00200	0.100	0.0927	93	0.0870	87	70-130	6	35	mg/kg	04.02.2020 02:58	
m,p-Xylenes	<0.00400	0.200	0.184	92	0.174	87	70-130	6	35	mg/kg	04.02.2020 02:58	
o-Xylene	<0.00200	0.100	0.0934	93	0.0895	90	70-130	4	35	mg/kg	04.02.2020 02:58	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		105		107		70-130	%	04.02.2020 02:58
4-Bromofluorobenzene	101		97		99		70-130	%	04.02.2020 02:58

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 657072

Larson and Associates, Inc.

Chevron -Talco

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3121690 Matrix: Soil Date Prep: 04.01.2020

Parent Sample Id: 657072-001 MS Sample Id: 657072-001 S MSD Sample Id: 657072-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0758	76	0.0841	84	70-130	10	35	mg/kg	04.02.2020 03:39	
Toluene	<0.00199	0.0994	0.0794	80	0.0854	86	70-130	7	35	mg/kg	04.02.2020 03:39	
Ethylbenzene	<0.00199	0.0994	0.0795	80	0.0846	85	70-130	6	35	mg/kg	04.02.2020 03:39	
m,p-Xylenes	<0.00398	0.199	0.160	80	0.169	85	70-130	5	35	mg/kg	04.02.2020 03:39	
o-Xylene	<0.00199	0.0994	0.0825	83	0.0869	87	70-130	5	35	mg/kg	04.02.2020 03:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		109		70-130	%	04.02.2020 03:39
4-Bromofluorobenzene	103		107		70-130	%	04.02.2020 03:39

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

№ 1077

BT
LS60 LS7072

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 3/27/2020 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Chevron - Talco

LAI PROJECT #: 20-0107-07 COLLECTOR: RN/DS

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl; HNO_3; H_2SO_4 ☐ NaOH ☐; ICE; UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐; TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐; GASOLINE MOD 8015 ☒; DIESEL - MOD 8015 ☒; OIL - MOD 8015 ☒; VOC 8260 ☐; SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐; 8081 PESTICIDES ☐ 8151 HERBICIDES ☐; 8082 PCBS ☐; TBLP - METALS (RCRA) ☐ TCLP VOC ☐; TCLP - PEST ☐ HERB ☐ Semi-VOC ☐; TOTAL METALS (RCRA) ☐ OTHER LIST ☐; LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐; RCI ☐ TOX ☐ FLASHPOINT ☐; TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐; pH ☐ HEXAVALENT CHROMIUM ☐; EXPLOSIVES ☐ PECHLORATE ☐; CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4/NaOH	ICE	UNPRESSERVED	BTEX	TRPH	GASOLINE	DIESEL	OIL	VOC	SVOC	8081	8082	TBLP	TCLP	TOTAL METALS	LEAD	RCI	TDS	pH	EXPLOSIVES	CHLORIDE	FIELD NOTES
sp-4, 2'		3/25/20	11:12	S	1				X		X		X	X	X													X	
sp-4, 3'			11:14								X																		
sp-4, 4'			11:15																										
sp-4, 5'			11:20																										
sp-4, 10'			11:21																										
sp-3, 2'		3/26/20	12:08								X																		
sp-3, 3'			12:09								X																		
sp-3, 4'			12:10																										
sp-3, 5'			12:11																										
sp-3, 6'			12:15																										
TOTAL																													

RELINQUISHED BY:(Signature) DS [signature] DATE/TIME 3/27/20 0821 RECEIVED BY: (Signature) [signature]

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 5.0/5.3 THERM#: R9
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 03.27.2020 08.21.00 AM

Work Order #: 657072

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	-5.3
#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?	**No**
#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 Date: 03.27.2020

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 03.31.2020

Holly Taylor

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 685962

Larson and Associates, Inc., Midland, TX

Project Name: Talco 25 35 35

Project Id: 20-0107-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Tue 01.26.2021 08:50
Report Date: 02.02.2021 12:41
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	685962-001		685962-002		685962-003		685962-004		685962-005		685962-006	
	Field Id:	C-1		C-2		C-3		C-4		C-5		C-6	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	01.25.2021 09:35		01.25.2021 09:40		01.25.2021 09:42		01.25.2021 09:44		01.25.2021 14:49		01.25.2021 14:50	
BTEX by EPA 8021B	***Extracted:***	01.29.2021 17:00		01.29.2021 17:00		01.29.2021 17:00		01.29.2021 17:00		01.29.2021 17:00		01.29.2021 17:00	
	Analyzed:	01.30.2021 10:28		01.30.2021 10:49		01.30.2021 11:09		01.30.2021 11:30		01.30.2021 11:50		01.30.2021 12:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200	0.00224	0.00201
Toluene		<0.00199	0.00199	0.0259	0.00200	0.00381	0.00201	0.00236	0.00198	0.00207	0.00200	0.00454	0.00201
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	0.0435	0.00201	0.00466	0.00198	0.00267	0.00200	0.0108	0.00201
m,p-Xylenes		0.00679	0.00398	<0.00399	0.00399	0.140	0.00402	0.0487	0.00396	0.0182	0.00400	0.0139	0.00402
o-Xylene		0.00278	0.00199	<0.00200	0.00200	0.0518	0.00201	0.0295	0.00198	0.00935	0.00200	0.0289	0.00201
Total Xylenes		0.00957	0.00199	<0.00200	0.00200	0.192	0.00201	0.0782	0.00198	0.0276	0.00200	0.0428	0.00201
Total BTEX		0.00957	0.00199	0.0259	0.00200	0.239	0.00201	0.0852	0.00198	0.0323	0.00200	0.0604	0.00201
Chloride by EPA 300	***Extracted:***	01.27.2021 10:00		01.27.2021 10:00		01.27.2021 12:00		01.27.2021 12:00		01.27.2021 12:00		01.27.2021 12:00	
	Analyzed:	01.27.2021 15:48		01.27.2021 15:53		01.27.2021 13:39		01.27.2021 13:54		01.27.2021 13:59		01.27.2021 14:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		398	24.9	37.5	4.99	88.2	5.00	628	25.3	82.0	4.98	51.8	49.5
TPH by SW8015 Mod	***Extracted:***	01.28.2021 17:00		01.28.2021 17:00		01.28.2021 17:00		01.28.2021 17:00		01.28.2021 17:00		01.28.2021 17:00	
	Analyzed:	01.28.2021 23:02		01.29.2021 00:06		01.29.2021 00:26		01.29.2021 00:47		01.29.2021 01:08		01.29.2021 01:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	5750	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	50.3	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	245	49.9	1150	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	106	50.0
Total TPH		<50.0	50.0	5750	49.8	<50.0	50.0	<50.0	50.0	245	49.9	1310	50.0

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor

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Certificate of Analysis Summary 685962

Larson and Associates, Inc., Midland, TX

Project Name: Talco 25 35 35

Project Id: 20-0107-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Tue 01.26.2021 08:50
Report Date: 02.02.2021 12:41
Project Manager: Holly Taylor

Analysis Requested		685962-007		685962-008		685962-009				
	Field Id:	C-7		C-8		Backfill-1				
	Depth:									
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	01.25.2021 14:52		01.25.2021 14:54		01.25.2021 14:23				
BTEX by EPA 8021B	*Extracted:*	01.29.2021 17:00		01.29.2021 17:00		01.29.2021 17:00				
	Analyzed:	01.30.2021 12:31		01.30.2021 12:51		01.30.2021 13:12				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Benzene		0.00308	0.00199	0.00427	0.00199	0.00526	0.00201			
Toluene		0.0107	0.00199	0.0106	0.00199	0.0155	0.00201			
Ethylbenzene		0.00455	0.00199	0.00463	0.00199	0.0210	0.00201			
m,p-Xylenes		0.0226	0.00398	0.0133	0.00398	0.117	0.00402			
o-Xylene		0.0149	0.00199	0.00862	0.00199	0.0339	0.00201			
Total Xylenes		0.0375	0.00199	0.0219	0.00199	0.151	0.00201			
Total BTEX		0.0558	0.00199	0.0414	0.00199	0.193	0.00201			
Chloride by EPA 300	*Extracted:*	01.27.2021 12:00		01.27.2021 12:00		01.27.2021 12:00				
	Analyzed:	01.27.2021 14:20		01.27.2021 14:25		01.27.2021 14:31				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		44.0	4.99	45.4	4.98	8.04	4.95			
TPH by SW8015 Mod	*Extracted:*	01.28.2021 17:00		01.28.2021 17:00		01.28.2021 17:00				
	Analyzed:	01.29.2021 01:50		01.29.2021 02:11		01.29.2021 02:33				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.8	49.8	<50.0	50.0			
Diesel Range Organics (DRO)		<49.9	49.9	<49.8	49.8	<50.0	50.0			
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.8	49.8	<50.0	50.0			
Total TPH		<49.9	49.9	<49.8	49.8	<50.0	50.0			

BRL - Below Reporting Limit

Holly Taylor

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 685962

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Talco 25 35 35

20-0107-07

02.02.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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02.02.2021

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **685962**
Talco 25 35 35
Project Address:

Mark Larson:

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 Eurofins Xenco, LLC Report Number(s) 685962. 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 Eurofins Xenco, LLC. 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. 685962 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

eurofins | Environment Testing Xenco

Sample Cross Reference 685962

Larson and Associates, Inc., Midland, TX

Talco 25 35 35

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
C-1	S	01.25.2021 09:35		685962-001
C-2	S	01.25.2021 09:40		685962-002
C-3	S	01.25.2021 09:42		685962-003
C-4	S	01.25.2021 09:44		685962-004
C-5	S	01.25.2021 14:49		685962-005
C-6	S	01.25.2021 14:50		685962-006
C-7	S	01.25.2021 14:52		685962-007
C-8	S	01.25.2021 14:54		685962-008
Backfill-1	S	01.25.2021 14:23		685962-009

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: Larson and Associates, Inc.

Project Name: Talco 25 35 35

Project ID: *20-0107-07*
Work Order Number(s): *685962*

Report Date: *02.02.2021*
Date Received: *01.26.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3149455 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 685962-002.

Batch: LBA-3149651 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7720309-1-BKS,7720309-1-BLK,685962-008,685962-004.

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Certificate of Analytical Results 685962

Larson and Associates, Inc., Midland, TX

Talco 25 35 35

Sample Id: **C-1** Matrix: Soil Date Received:01.26.2021 08:50

Lab Sample Id: 685962-001 Date Collected: 01.25.2021 09:35

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.27.2021 10:00 % Moisture:

Seq Number: 3149178 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**398**	24.9	mg/kg	01.27.2021 15:48		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.28.2021 17:00 % Moisture:

Seq Number: 3149651 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.28.2021 23:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.28.2021 23:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.28.2021 23:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.28.2021 23:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	01.28.2021 23:02	
o-Terphenyl	84-15-1	122	%	70-130	01.28.2021 23:02	

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Certificate of Analytical Results 685962

Larson and Associates, Inc., Midland, TX

Talco 25 35 35

Sample Id:	**C-1**	Matrix:	Soil	Date Received:	01.26.2021 08:50
Lab Sample Id:	685962-001	Date Collected:	01.25.2021 09:35		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.29.2021 17:00	% Moisture:	
Seq Number:	3149455			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.30.2021 10:28	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.30.2021 10:28	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.30.2021 10:28	U	1
m,p-Xylenes	179601-23-1	**0.00679**	0.00398	mg/kg	01.30.2021 10:28		1
o-Xylene	95-47-6	**0.00278**	0.00199	mg/kg	01.30.2021 10:28		1
Total Xylenes	1330-20-7	**0.00957**	0.00199	mg/kg	01.30.2021 10:28		1
Total BTEX		**0.00957**	0.00199	mg/kg	01.30.2021 10:28		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	01.30.2021 10:28	
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.30.2021 10:28	

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Talco 25 35 35

Sample Id: **C-2** Matrix: Soil Date Received:01.26.2021 08:50

Lab Sample Id: 685962-002 Date Collected: 01.25.2021 09:40

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.27.2021 10:00 % Moisture:

Seq Number: 3149178 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**37.5**	4.99	mg/kg	01.27.2021 15:53		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.28.2021 17:00 % Moisture:

Seq Number: 3149651 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**5750**	49.8	mg/kg	01.29.2021 00:06		1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.29.2021 00:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.29.2021 00:06	U	1
Total TPH	PHC635	**5750**	49.8	mg/kg	01.29.2021 00:06		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	01.29.2021 00:06	
o-Terphenyl	84-15-1	125	%	70-130	01.29.2021 00:06	

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Talco 25 35 35

Sample Id:	**C-2**	Matrix:	Soil	Date Received:	01.26.2021 08:50
Lab Sample Id:	685962-002	Date Collected:	01.25.2021 09:40		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.29.2021 17:00	% Moisture:	
Seq Number:	3149455			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.30.2021 10:49	U	1
Toluene	108-88-3	**0.0259**	0.00200	mg/kg	01.30.2021 10:49		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.30.2021 10:49	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.30.2021 10:49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.30.2021 10:49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.30.2021 10:49	U	1
Total BTEX		**0.0259**	0.00200	mg/kg	01.30.2021 10:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	248	%	70-130	01.30.2021 10:49	**
1,4-Difluorobenzene	540-36-3	86	%	70-130	01.30.2021 10:49	

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Talco 25 35 35

Sample Id: **C-3** Matrix: Soil Date Received:01.26.2021 08:50

Lab Sample Id: 685962-003 Date Collected: 01.25.2021 09:42

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.27.2021 12:00 % Moisture:

Seq Number: 3149179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**88.2**	5.00	mg/kg	01.27.2021 13:39		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.28.2021 17:00 % Moisture:

Seq Number: 3149651 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.29.2021 00:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.29.2021 00:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.29.2021 00:26	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.29.2021 00:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	01.29.2021 00:26	
o-Terphenyl	84-15-1	128	%	70-130	01.29.2021 00:26	

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Talco 25 35 35

Sample Id:	**C-3**	Matrix:	Soil	Date Received:	01.26.2021 08:50
Lab Sample Id:	685962-003	Date Collected:	01.25.2021 09:42		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.29.2021 17:00	% Moisture:	
Seq Number:	3149455			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.30.2021 11:09	U	1
Toluene	108-88-3	**0.00381**	0.00201	mg/kg	01.30.2021 11:09		1
Ethylbenzene	100-41-4	**0.0435**	0.00201	mg/kg	01.30.2021 11:09		1
m,p-Xylenes	179601-23-1	**0.140**	0.00402	mg/kg	01.30.2021 11:09		1
o-Xylene	95-47-6	**0.0518**	0.00201	mg/kg	01.30.2021 11:09		1
Total Xylenes	1330-20-7	**0.192**	0.00201	mg/kg	01.30.2021 11:09		1
Total BTEX		**0.239**	0.00201	mg/kg	01.30.2021 11:09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	01.30.2021 11:09	
1,4-Difluorobenzene	540-36-3	97	%	70-130	01.30.2021 11:09	

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Talco 25 35 35

Sample Id: **C-4** Matrix: Soil Date Received:01.26.2021 08:50

Lab Sample Id: 685962-004 Date Collected: 01.25.2021 09:44

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.27.2021 12:00 % Moisture:

Seq Number: 3149179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**628**	25.3	mg/kg	01.27.2021 13:54		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.28.2021 17:00 % Moisture:

Seq Number: 3149651 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.29.2021 00:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.29.2021 00:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.29.2021 00:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.29.2021 00:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	01.29.2021 00:47	
o-Terphenyl	84-15-1	135	%	70-130	01.29.2021 00:47	**

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Talco 25 35 35

Sample Id:	**C-4**	Matrix:	Soil	Date Received:	01.26.2021 08:50
Lab Sample Id:	685962-004	Date Collected:	01.25.2021 09:44		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.29.2021 17:00	% Moisture:	
Seq Number:	3149455			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.30.2021 11:30	U	1
Toluene	108-88-3	**0.00236**	0.00198	mg/kg	01.30.2021 11:30		1
Ethylbenzene	100-41-4	**0.00466**	0.00198	mg/kg	01.30.2021 11:30		1
m,p-Xylenes	179601-23-1	**0.0487**	0.00396	mg/kg	01.30.2021 11:30		1
o-Xylene	95-47-6	**0.0295**	0.00198	mg/kg	01.30.2021 11:30		1
Total Xylenes	1330-20-7	**0.0782**	0.00198	mg/kg	01.30.2021 11:30		1
Total BTEX		**0.0852**	0.00198	mg/kg	01.30.2021 11:30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	01.30.2021 11:30	
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.30.2021 11:30	

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Talco 25 35 35

Sample Id: **C-5** Matrix: Soil Date Received:01.26.2021 08:50

Lab Sample Id: 685962-005 Date Collected: 01.25.2021 14:49

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.27.2021 12:00 % Moisture:

Seq Number: 3149179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**82.0**	4.98	mg/kg	01.27.2021 13:59		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.28.2021 17:00 % Moisture:

Seq Number: 3149651 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.29.2021 01:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	**245**	49.9	mg/kg	01.29.2021 01:08		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.29.2021 01:08	U	1
Total TPH	PHC635	**245**	49.9	mg/kg	01.29.2021 01:08		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	01.29.2021 01:08	
o-Terphenyl	84-15-1	127	%	70-130	01.29.2021 01:08	

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Talco 25 35 35

Sample Id:	**C-5**	Matrix:	Soil	Date Received:	01.26.2021 08:50
Lab Sample Id:	685962-005	Date Collected:	01.25.2021 14:49		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.29.2021 17:00	% Moisture:	
Seq Number:	3149455			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.30.2021 11:50	U	1
Toluene	108-88-3	**0.00207**	0.00200	mg/kg	01.30.2021 11:50		1
Ethylbenzene	100-41-4	**0.00267**	0.00200	mg/kg	01.30.2021 11:50		1
m,p-Xylenes	179601-23-1	**0.0182**	0.00400	mg/kg	01.30.2021 11:50		1
o-Xylene	95-47-6	**0.00935**	0.00200	mg/kg	01.30.2021 11:50		1
Total Xylenes	1330-20-7	**0.0276**	0.00200	mg/kg	01.30.2021 11:50		1
Total BTEX		**0.0323**	0.00200	mg/kg	01.30.2021 11:50		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	01.30.2021 11:50	
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.30.2021 11:50	

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Talco 25 35 35

Sample Id: **C-6** Matrix: Soil Date Received:01.26.2021 08:50

Lab Sample Id: 685962-006 Date Collected: 01.25.2021 14:50

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.27.2021 12:00 % Moisture:

Seq Number: 3149179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**51.8**	49.5	mg/kg	01.27.2021 14:15		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.28.2021 17:00 % Moisture:

Seq Number: 3149651 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**50.3**	50.0	mg/kg	01.29.2021 01:29		1
Diesel Range Organics (DRO)	C10C28DRO	**1150**	50.0	mg/kg	01.29.2021 01:29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**106**	50.0	mg/kg	01.29.2021 01:29		1
Total TPH	PHC635	**1310**	50.0	mg/kg	01.29.2021 01:29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	01.29.2021 01:29	
o-Terphenyl	84-15-1	127	%	70-130	01.29.2021 01:29	

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Talco 25 35 35

Sample Id:	**C-6**	Matrix:	Soil	Date Received:	01.26.2021 08:50
Lab Sample Id:	685962-006	Date Collected:	01.25.2021 14:50		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.29.2021 17:00	% Moisture:	
Seq Number:	3149455			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00224**	0.00201	mg/kg	01.30.2021 12:10		1
Toluene	108-88-3	**0.00454**	0.00201	mg/kg	01.30.2021 12:10		1
Ethylbenzene	100-41-4	**0.0108**	0.00201	mg/kg	01.30.2021 12:10		1
m,p-Xylenes	179601-23-1	**0.0139**	0.00402	mg/kg	01.30.2021 12:10		1
o-Xylene	95-47-6	**0.0289**	0.00201	mg/kg	01.30.2021 12:10		1
Total Xylenes	1330-20-7	**0.0428**	0.00201	mg/kg	01.30.2021 12:10		1
Total BTEX		**0.0604**	0.00201	mg/kg	01.30.2021 12:10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	125	%	70-130	01.30.2021 12:10	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.30.2021 12:10	

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Talco 25 35 35

Sample Id: **C-7** Matrix: Soil Date Received:01.26.2021 08:50

Lab Sample Id: 685962-007 Date Collected: 01.25.2021 14:52

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.27.2021 12:00 % Moisture:

Seq Number: 3149179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**44.0**	4.99	mg/kg	01.27.2021 14:20		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.28.2021 17:00 % Moisture:

Seq Number: 3149651 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.29.2021 01:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.29.2021 01:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.29.2021 01:50	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.29.2021 01:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	01.29.2021 01:50	
o-Terphenyl	84-15-1	125	%	70-130	01.29.2021 01:50	

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Talco 25 35 35

Sample Id:	**C-7**	Matrix:	Soil	Date Received:	01.26.2021 08:50
Lab Sample Id:	685962-007	Date Collected:	01.25.2021 14:52		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.29.2021 17:00	% Moisture:	
Seq Number:	3149455			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00308**	0.00199	mg/kg	01.30.2021 12:31		1
Toluene	108-88-3	**0.0107**	0.00199	mg/kg	01.30.2021 12:31		1
Ethylbenzene	100-41-4	**0.00455**	0.00199	mg/kg	01.30.2021 12:31		1
m,p-Xylenes	179601-23-1	**0.0226**	0.00398	mg/kg	01.30.2021 12:31		1
o-Xylene	95-47-6	**0.0149**	0.00199	mg/kg	01.30.2021 12:31		1
Total Xylenes	1330-20-7	**0.0375**	0.00199	mg/kg	01.30.2021 12:31		1
Total BTEX		**0.0558**	0.00199	mg/kg	01.30.2021 12:31		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	01.30.2021 12:31	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.30.2021 12:31	

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Talco 25 35 35

Sample Id: **C-8** Matrix: Soil Date Received:01.26.2021 08:50

Lab Sample Id: 685962-008 Date Collected: 01.25.2021 14:54

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.27.2021 12:00 % Moisture:

Seq Number: 3149179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**45.4**	4.98	mg/kg	01.27.2021 14:25		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.28.2021 17:00 % Moisture:

Seq Number: 3149651 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.29.2021 02:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.29.2021 02:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.29.2021 02:11	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.29.2021 02:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	01.29.2021 02:11	
o-Terphenyl	84-15-1	136	%	70-130	01.29.2021 02:11	**

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Talco 25 35 35

Sample Id:	**C-8**	Matrix:	Soil	Date Received:	01.26.2021 08:50
Lab Sample Id:	685962-008	Date Collected:	01.25.2021 14:54		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.29.2021 17:00	% Moisture:	
Seq Number:	3149455			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00427**	0.00199	mg/kg	01.30.2021 12:51		1
Toluene	108-88-3	**0.0106**	0.00199	mg/kg	01.30.2021 12:51		1
Ethylbenzene	100-41-4	**0.00463**	0.00199	mg/kg	01.30.2021 12:51		1
m,p-Xylenes	179601-23-1	**0.0133**	0.00398	mg/kg	01.30.2021 12:51		1
o-Xylene	95-47-6	**0.00862**	0.00199	mg/kg	01.30.2021 12:51		1
Total Xylenes	1330-20-7	**0.0219**	0.00199	mg/kg	01.30.2021 12:51		1
Total BTEX		**0.0414**	0.00199	mg/kg	01.30.2021 12:51		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	01.30.2021 12:51	
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.30.2021 12:51	

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Certificate of Analytical Results 685962

Larson and Associates, Inc., Midland, TX

Talco 25 35 35

Sample Id: **Backfill-1** Matrix: Soil Date Received:01.26.2021 08:50

Lab Sample Id: 685962-009 Date Collected: 01.25.2021 14:23

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.27.2021 12:00 % Moisture:

Seq Number: 3149179 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.04**	4.95	mg/kg	01.27.2021 14:31		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.28.2021 17:00 % Moisture:

Seq Number: 3149651 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.29.2021 02:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.29.2021 02:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.29.2021 02:33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.29.2021 02:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	01.29.2021 02:33	
o-Terphenyl	84-15-1	121	%	70-130	01.29.2021 02:33	

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Certificate of Analytical Results 685962

Larson and Associates, Inc., Midland, TX

Talco 25 35 35

Sample Id:	**Backfill-1**	Matrix:	Soil	Date Received:	01.26.2021 08:50
Lab Sample Id:	685962-009	Date Collected:	01.25.2021 14:23		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.29.2021 17:00	% Moisture:	
Seq Number:	3149455			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00526**	0.00201	mg/kg	01.30.2021 13:12		1
Toluene	108-88-3	**0.0155**	0.00201	mg/kg	01.30.2021 13:12		1
Ethylbenzene	100-41-4	**0.0210**	0.00201	mg/kg	01.30.2021 13:12		1
m,p-Xylenes	179601-23-1	**0.117**	0.00402	mg/kg	01.30.2021 13:12		1
o-Xylene	95-47-6	**0.0339**	0.00201	mg/kg	01.30.2021 13:12		1
Total Xylenes	1330-20-7	**0.151**	0.00201	mg/kg	01.30.2021 13:12		1
Total BTEX		**0.193**	0.00201	mg/kg	01.30.2021 13:12		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	01.30.2021 13:12	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.30.2021 13:12	

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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 QA 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. **ND** Not Detected.

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 Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory 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

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QC Summary 685962

Larson and Associates, Inc.

Talco 25 35 35

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3149178 — Matrix: Solid — Date Prep: 01.27.2021
MB Sample Id: 7720097-1-BLK — LCS Sample Id: 7720097-1-BKS — LCSD Sample Id: 7720097-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	243	97	244	98	90-110	0	20	mg/kg	01.27.2021 12:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3149179 — Matrix: Solid — Date Prep: 01.27.2021
MB Sample Id: 7720119-1-BLK — LCS Sample Id: 7720119-1-BKS — LCSD Sample Id: 7720119-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	261	104	261	104	90-110	0	20	mg/kg	01.27.2021 12:15	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3149178 — Matrix: Soil — Date Prep: 01.27.2021
Parent Sample Id: 685961-009 — MS Sample Id: 685961-009 S — MSD Sample Id: 685961-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.24	250	252	98	251	97	90-110	0	20	mg/kg	01.27.2021 13:32	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3149178 — Matrix: Soil — Date Prep: 01.27.2021
Parent Sample Id: 685961-015 — MS Sample Id: 685961-015 S — MSD Sample Id: 685961-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	44.1	252	305	104	292	98	90-110	4	20	mg/kg	01.27.2021 12:18	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3149179 — Matrix: Soil — Date Prep: 01.27.2021
Parent Sample Id: 685962-003 — MS Sample Id: 685962-003 S — MSD Sample Id: 685962-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	88.2	250	346	103	346	103	90-110	0	20	mg/kg	01.27.2021 13:44	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3149179 — Matrix: Soil — Date Prep: 01.27.2021
Parent Sample Id: 686113-001 — MS Sample Id: 686113-001 S — MSD Sample Id: 686113-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	30.3	251	290	103	290	103	90-110	0	20	mg/kg	01.27.2021 12:31	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 685962

Larson and Associates, Inc.

Talco 25 35 35

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3149651 — Matrix: Solid — Date Prep: 01.28.2021
MB Sample Id: 7720309-1-BLK — LCS Sample Id: 7720309-1-BKS — LCSD Sample Id: 7720309-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1000	100	946	95	70-130	6	20	mg/kg	01.28.2021 22:19	
Diesel Range Organics (DRO)	<50.0	1000	995	100	916	92	70-130	8	20	mg/kg	01.28.2021 22:19	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		105		103		70-130	%	01.28.2021 22:19
o-Terphenyl	146	**	133	**	126		70-130	%	01.28.2021 22:19

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3149651 — Matrix: Solid — Date Prep: 01.28.2021
MB Sample Id: 7720309-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.28.2021 21:58	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3149651 — Matrix: Soil — Date Prep: 01.28.2021
Parent Sample Id: 685962-001 — MS Sample Id: 685962-001 S — MSD Sample Id: 685962-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	930	93	882	88	70-130	5	20	mg/kg	01.28.2021 23:23	
Diesel Range Organics (DRO)	<49.9	998	911	91	825	83	70-130	10	20	mg/kg	01.28.2021 23:23	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	87		87		70-130	%	01.28.2021 23:23
o-Terphenyl	107		98		70-130	%	01.28.2021 23:23

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3149455 — Matrix: Solid — Date Prep: 01.29.2021
MB Sample Id: 7720382-1-BLK — LCS Sample Id: 7720382-1-BKS — LCSD Sample Id: 7720382-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.104	104	0.102	102	70-130	2	35	mg/kg	01.30.2021 03:18	
Toluene	<0.00200	0.100	0.0988	99	0.0966	97	70-130	2	35	mg/kg	01.30.2021 03:18	
Ethylbenzene	<0.00200	0.100	0.0987	99	0.0967	97	70-130	2	35	mg/kg	01.30.2021 03:18	
m,p-Xylenes	<0.00400	0.200	0.192	96	0.188	94	70-130	2	35	mg/kg	01.30.2021 03:18	
o-Xylene	<0.00200	0.100	0.0951	95	0.0930	93	70-130	2	35	mg/kg	01.30.2021 03:18	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		102		100		70-130	%	01.30.2021 03:18
4-Bromofluorobenzene	101		95		93		70-130	%	01.30.2021 03:18

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 685962

Larson and Associates, Inc.

Talco 25 35 35

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3149455 Matrix: Solid Date Prep: 01.29.2021

Parent Sample Id: 686141-001 MS Sample Id: 686141-001 S MSD Sample Id: 686141-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00179	0.0996	0.00662	5	0.00797	6	70-130	19	35	mg/kg	01.30.2021 03:59	X
Toluene	0.00465	0.0996	0.00809	3	0.00841	4	70-130	4	35	mg/kg	01.30.2021 03:59	X
Ethylbenzene	0.00148	0.0996	0.00590	4	0.00736	6	70-130	22	35	mg/kg	01.30.2021 03:59	X
m,p-Xylenes	0.00552	0.199	0.0130	4	0.0153	5	70-130	16	35	mg/kg	01.30.2021 03:59	X
o-Xylene	0.00171	0.0996	0.00733	6	0.00816	6	70-130	11	35	mg/kg	01.30.2021 03:59	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		98		70-130	%	01.30.2021 03:59
4-Bromofluorobenzene	111		97		70-130	%	01.30.2021 03:59

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

№1411

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 1/26/2021 PAGE 1 OF 1
PO#: LAB WORK ORDER#: 085902
PROJECT LOCATION OR NAME: Talco 25 25 35
LAI PROJECT #: 20-0107-02 COLLECTOR: AW & DS

TRRP report? ☐ Yes ☒ No
TIME ZONE: Time zone/State: MST

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TBLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TBLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-1		1/25/21	9:38	S	1				X		X			X	X	X												X		
C-2			9:40																											
C-3			9:42																											
C-4			9:44																											
C-5			14:48																											
C-6			14:50																											
C-7			14:52																											
C-8			14:54																											
Backfill-1			14:23		1																									
TOTAL					9																									

RELINQUISHED BY:(Signature) DATE/TIME 1/26/21 8:50 RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)
LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: -3.2 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 01.26.2021 08.50.00 AM

Work Order #: 685962

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	-3.2
#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?	**No**
#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 Date: 01.26.2021

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 01.28.2021

Holly Taylor

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Certificate of Analysis Summary 687437

Larson and Associates, Inc., Midland, TX

Project Name: Talco 25 25 35

Project Id: 20-0107-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Fri 02.05.2021 08:45
Report Date: 02.10.2021 09:38
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	687437-001		687437-002		687437-003		687437-004					
	Field Id:	C-2		C-4		C-5		C-6					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	02.04.2021 13:50		02.04.2021 11:20		02.04.2021 13:55		02.04.2021 14:00					
BTEX by EPA 8021B	***Extracted:***	02.05.2021 15:00		02.05.2021 15:00		02.05.2021 15:00		02.05.2021 15:00					
	Analyzed:	02.05.2021 21:49		02.05.2021 22:15		02.05.2021 22:42		02.05.2021 23:09					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201				
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201				
Ethylbenzene		0.166	0.00199	0.00205	0.00200	<0.00201	0.00201	<0.00201	0.00201				
m,p-Xylenes		0.488 D	0.0797	0.0168	0.00399	<0.00402	0.00402	<0.00402	0.00402				
o-Xylene		0.348 D	0.0398	0.0635	0.00200	0.00260	0.00201	<0.00201	0.00201				
Total Xylenes		0.836	0.0398	0.0803	0.00200	0.00260	0.00201	<0.00201	0.00201				
Total BTEX		1.00	0.00199	0.0824	0.00200	0.00260	0.00201	<0.00201	0.00201				
Chloride by EPA 300	***Extracted:***	02.08.2021 08:45		02.08.2021 08:45		02.08.2021 08:45		02.08.2021 08:45					
	Analyzed:	02.08.2021 09:28		02.08.2021 09:33		02.08.2021 09:39		02.08.2021 09:44					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		107	4.96	50.1	4.98	34.3	4.99	33.6	5.02				
TPH by SW8015 Mod	***Extracted:***	02.07.2021 10:00		02.07.2021 10:00		02.07.2021 10:00		02.07.2021 10:00					
	Analyzed:	02.08.2021 01:49		02.08.2021 02:10		02.08.2021 02:31		02.08.2021 02:53					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.9	49.9	<49.8	49.8	<49.9	49.9				
Diesel Range Organics (DRO)		<49.9	49.9	<49.9	49.9	<49.8	49.8	<49.9	49.9				
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.9	49.9	<49.8	49.8	<49.9	49.9				
Total TPH		<49.9	49.9	<49.9	49.9	<49.8	49.8	<49.9	49.9				

BRL - Below Reporting Limit

Holly Taylor

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 687437

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Talco 25 25 35

20-0107-07

02.10.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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02.10.2021

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **687437**
Talco 25 25 35
Project Address:

Mark Larson:

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 Eurofins Xenco, LLC Report Number(s) 687437. 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 Eurofins Xenco, LLC. 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. 687437 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 687437

Larson and Associates, Inc., Midland, TX

Talco 25 25 35

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
C-2	S	02.04.2021 13:50		687437-001
C-4	S	02.04.2021 11:20		687437-002
C-5	S	02.04.2021 13:55		687437-003
C-6	S	02.04.2021 14:00		687437-004

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CASE NARRATIVE

Client Name: Larson and Associates, Inc.

Project Name: Talco 25 25 35

Project ID: *20-0107-07*
Work Order Number(s): *687437*

Report Date: *02.10.2021*
Date Received: *02.05.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3150223 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; Samples affected are: 687297-012 S,687437-001.

Batch: LBA-3150338 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7721029-1-BKS,7721029-1-BSD.

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Certificate of Analytical Results 687437

Larson and Associates, Inc., Midland, TX

Talco 25 25 35

Sample Id: **C-2** Matrix: Soil Date Received:02.05.2021 08:45

Lab Sample Id: 687437-001 Date Collected: 02.04.2021 13:50

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 02.08.2021 08:45 % Moisture:

Seq Number: 3150407 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**107**	4.96	mg/kg	02.08.2021 09:28		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 02.07.2021 10:00 % Moisture:

Seq Number: 3150338 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.08.2021 01:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.08.2021 01:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.08.2021 01:49	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.08.2021 01:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	02.08.2021 01:49	
o-Terphenyl	84-15-1	102	%	70-130	02.08.2021 01:49	

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Certificate of Analytical Results 687437

Larson and Associates, Inc., Midland, TX

Talco 25 25 35

Sample Id:	**C-2**	Matrix:	Soil	Date Received:	02.05.2021 08:45
Lab Sample Id:	687437-001	Date Collected:	02.04.2021 13:50		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	02.05.2021 15:00	% Moisture:	
Seq Number:	3150223			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.05.2021 21:49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.05.2021 21:49	U	1
Ethylbenzene	100-41-4	**0.166**	0.00199	mg/kg	02.05.2021 21:49		1
m,p-Xylenes	179601-23-1	**0.488**	0.0797	mg/kg	02.06.2021 19:47	D	20
o-Xylene	95-47-6	**0.348**	0.0398	mg/kg	02.06.2021 19:47	D	20
Total Xylenes	1330-20-7	**0.836**	0.0398	mg/kg	02.06.2021 19:47		20
Total BTEX		**1.00**	0.00199	mg/kg	02.06.2021 19:47		20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	93	%	70-130	02.05.2021 21:49	
4-Bromofluorobenzene	460-00-4	149	%	70-130	02.05.2021 21:49	**

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Certificate of Analytical Results 687437

Larson and Associates, Inc., Midland, TX

Talco 25 25 35

Sample Id: **C-4** Matrix: Soil Date Received:02.05.2021 08:45

Lab Sample Id: 687437-002 Date Collected: 02.04.2021 11:20

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 02.08.2021 08:45 % Moisture:

Seq Number: 3150407 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**50.1**	4.98	mg/kg	02.08.2021 09:33		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 02.07.2021 10:00 % Moisture:

Seq Number: 3150338 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.08.2021 02:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.08.2021 02:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.08.2021 02:10	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.08.2021 02:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	02.08.2021 02:10	
o-Terphenyl	84-15-1	103	%	70-130	02.08.2021 02:10	

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Certificate of Analytical Results 687437

Larson and Associates, Inc., Midland, TX

Talco 25 25 35

Sample Id:	**C-4**	Matrix:	Soil	Date Received:	02.05.2021 08:45
Lab Sample Id:	687437-002	Date Collected:	02.04.2021 11:20		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	02.05.2021 15:00	% Moisture:	
Seq Number:	3150223			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.05.2021 22:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.05.2021 22:15	U	1
Ethylbenzene	100-41-4	**0.00205**	0.00200	mg/kg	02.05.2021 22:15		1
m,p-Xylenes	179601-23-1	**0.0168**	0.00399	mg/kg	02.05.2021 22:15		1
o-Xylene	95-47-6	**0.0635**	0.00200	mg/kg	02.05.2021 22:15		1
Total Xylenes	1330-20-7	**0.0803**	0.00200	mg/kg	02.05.2021 22:15		1
Total BTEX		**0.0824**	0.00200	mg/kg	02.05.2021 22:15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	02.05.2021 22:15	
1,4-Difluorobenzene	540-36-3	111	%	70-130	02.05.2021 22:15	

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Certificate of Analytical Results 687437

Larson and Associates, Inc., Midland, TX

Talco 25 25 35

Sample Id: **C-5** Matrix: Soil Date Received:02.05.2021 08:45

Lab Sample Id: 687437-003 Date Collected: 02.04.2021 13:55

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 02.08.2021 08:45 % Moisture:

Seq Number: 3150407 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**34.3**	4.99	mg/kg	02.08.2021 09:39		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 02.07.2021 10:00 % Moisture:

Seq Number: 3150338 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.08.2021 02:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.08.2021 02:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.08.2021 02:31	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.08.2021 02:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	02.08.2021 02:31	
o-Terphenyl	84-15-1	102	%	70-130	02.08.2021 02:31	

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Certificate of Analytical Results 687437

Larson and Associates, Inc., Midland, TX

Talco 25 25 35

Sample Id:	**C-5**	Matrix:	Soil	Date Received:	02.05.2021 08:45
Lab Sample Id:	687437-003	Date Collected:	02.04.2021 13:55		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	02.05.2021 15:00	% Moisture:	
Seq Number:	3150223			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.05.2021 22:42	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.05.2021 22:42	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.05.2021 22:42	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.05.2021 22:42	U	1
o-Xylene	95-47-6	**0.00260**	0.00201	mg/kg	02.05.2021 22:42		1
Total Xylenes	1330-20-7	**0.00260**	0.00201	mg/kg	02.05.2021 22:42		1
Total BTEX		**0.00260**	0.00201	mg/kg	02.05.2021 22:42		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	02.05.2021 22:42	
1,4-Difluorobenzene	540-36-3	113	%	70-130	02.05.2021 22:42	

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Certificate of Analytical Results 687437

Larson and Associates, Inc., Midland, TX

Talco 25 25 35

Sample Id: **C-6** Matrix: Soil Date Received:02.05.2021 08:45

Lab Sample Id: 687437-004 Date Collected: 02.04.2021 14:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 02.08.2021 08:45 % Moisture:

Seq Number: 3150407 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**33.6**	5.02	mg/kg	02.08.2021 09:44		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: ARM

Analyst: ARM Date Prep: 02.07.2021 10:00 % Moisture:

Seq Number: 3150338 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.08.2021 02:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.08.2021 02:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.08.2021 02:53	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.08.2021 02:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	02.08.2021 02:53	
o-Terphenyl	84-15-1	103	%	70-130	02.08.2021 02:53	

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Certificate of Analytical Results 687437

Larson and Associates, Inc., Midland, TX

Talco 25 25 35

Sample Id:	**C-6**	Matrix:	Soil	Date Received:	02.05.2021 08:45
Lab Sample Id:	687437-004	Date Collected:	02.04.2021 14:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	02.05.2021 15:00	% Moisture:	
Seq Number:	3150223			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.05.2021 23:09	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.05.2021 23:09	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.05.2021 23:09	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.05.2021 23:09	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.05.2021 23:09	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.05.2021 23:09	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.05.2021 23:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	126	%	70-130	02.05.2021 23:09	
1,4-Difluorobenzene	540-36-3	99	%	70-130	02.05.2021 23:09	

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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 QA 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. **ND** Not Detected.

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 Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory 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

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QC Summary 687437

Larson and Associates, Inc.

Talco 25 25 35

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3150407 — Matrix: Solid — Date Prep: 02.08.2021
MB Sample Id: 7720975-1-BLK — LCS Sample Id: 7720975-1-BKS — LCSD Sample Id: 7720975-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	256	102	90-110	0	20	mg/kg	02.08.2021 09:01	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3150407 — Matrix: Soil — Date Prep: 02.08.2021
Parent Sample Id: 687415-060 — MS Sample Id: 687415-060 S — MSD Sample Id: 687415-060 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	283	252	521	94	518	93	90-110	1	20	mg/kg	02.08.2021 09:17	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3150407 — Matrix: Soil — Date Prep: 02.08.2021
Parent Sample Id: 687440-006 — MS Sample Id: 687440-006 S — MSD Sample Id: 687440-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	36.7	248	292	103	296	105	90-110	1	20	mg/kg	02.08.2021 10:32	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3150338 — Matrix: Solid — Date Prep: 02.07.2021
MB Sample Id: 7721029-1-BLK — LCS Sample Id: 7721029-1-BKS — LCSD Sample Id: 7721029-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1080	108	1060	106	70-130	2	20	mg/kg	02.07.2021 22:17	
Diesel Range Organics (DRO)	<50.0	1000	1150	115	1140	114	70-130	1	20	mg/kg	02.07.2021 22:17	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		126		126		70-130	%	02.07.2021 22:17
o-Terphenyl	111		134	**	150	**	70-130	%	02.07.2021 22:17

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3150338 — Matrix: Solid — Date Prep: 02.07.2021
MB Sample Id: 7721029-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.07.2021 21:56	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 687437

Larson and Associates, Inc.

Talco 25 25 35

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3150338 Matrix: Soil Date Prep: 02.07.2021
Parent Sample Id: 687484-001 MS Sample Id: 687484-001 S MSD Sample Id: 687484-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1060	106	943	95	70-130	12	20	mg/kg	02.07.2021 23:22	
Diesel Range Organics (DRO)	<49.9	998	1060	106	1000	100	70-130	6	20	mg/kg	02.07.2021 23:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		100		70-130	%	02.07.2021 23:22
o-Terphenyl	108		106		70-130	%	02.07.2021 23:22

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3150223 Matrix: Solid Date Prep: 02.05.2021
MB Sample Id: 7720901-1-BLK LCS Sample Id: 7720901-1-BKS LCSD Sample Id: 7720901-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.125	125	0.123	123	70-130	2	35	mg/kg	02.05.2021 16:13	
Toluene	<0.00200	0.100	0.120	120	0.117	117	70-130	3	35	mg/kg	02.05.2021 16:13	
Ethylbenzene	<0.00200	0.100	0.118	118	0.117	117	70-130	1	35	mg/kg	02.05.2021 16:13	
m,p-Xylenes	<0.00400	0.200	0.245	123	0.243	122	70-130	1	35	mg/kg	02.05.2021 16:13	
o-Xylene	<0.00200	0.100	0.117	117	0.118	118	70-130	1	35	mg/kg	02.05.2021 16:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		106		105		70-130	%	02.05.2021 16:13
4-Bromofluorobenzene	87		124		129		70-130	%	02.05.2021 16:13

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3150223 Matrix: Soil Date Prep: 02.05.2021
Parent Sample Id: 687297-012 MS Sample Id: 687297-012 S MSD Sample Id: 687297-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.114	114	0.0888	88	70-130	25	35	mg/kg	02.05.2021 17:05	
Toluene	<0.00200	0.100	0.111	111	0.0736	73	70-130	41	35	mg/kg	02.05.2021 17:05	F
Ethylbenzene	<0.00200	0.100	0.109	109	0.0758	75	70-130	36	35	mg/kg	02.05.2021 17:05	F
m,p-Xylenes	<0.00401	0.200	0.225	113	0.156	78	70-130	36	35	mg/kg	02.05.2021 17:05	F
o-Xylene	<0.00200	0.100	0.110	110	0.0767	76	70-130	36	35	mg/kg	02.05.2021 17:05	F

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		111		70-130	%	02.05.2021 17:05
4-Bromofluorobenzene	135	**	83		70-130	%	02.05.2021 17:05

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

№1495

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 2-5-21 PAGE 1 OF 1

PO#: LAB WORK ORDER#: 087437

PROJECT LOCATION OR NAME: Talco 25 25 35

LAI PROJECT #: 20-0107-07 COLLECTOR: TJ

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TBLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TBLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-2		2-4-21	1350	S	1				X		X		X	X	X												X		
C-4		"	1120	"	"				"		"		"	"	"												"		
C-5		"	1355	"	"				"		"		"	"	"												"		
C-6		"	1400	"	"				"		"		"	"	"												"		

TOTAL 4

RELINQUISHED BY:(Signature) Trent Dalton DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) Brenda Bolton DATE/TIME 2/5 8:45 RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: -1.3 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 02.05.2021 08.45.00 AM

Work Order #: 687437

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	-1.3
#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?	**No**
#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 Date: 02.05.2021

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 02.08.2021

Holly Taylor

Appendix E

Waste Manifests

SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 2006. 586823

LEASE OPERATOR/SHIPPER/COMPANY: chevron.	DATE: 01-28-21.
LEASE NAME: Falco 25 25 35 Fed #1	TIME: 3:40 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 101
TRANSPORTER COMPANY: M. Matu.	PHONE:
GENERATOR COMPANY MAN'S NAME: Michael Moore.	PHONE:

CHARGE TO: chevron.

TYPE OF MATERIAL

[ ] Tank Bottoms [ ] Drilling Fluids [ ] Rinsate [ ] BS&W Content:
[ ] Solids [X] Contaminated Soil [ ] Jet Out _____

Description: CD

VOLUME OF MATERIAL

[ ] BBLS. _____ : [X] YARD 20. : [ ] _____

RRC or API # 30-025-42548. C-133# m.

STICKERS, CODES, NUMBERS, ETC.

cc: UCLGaJ04X.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY *that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: Jesus Ramos. (SIGNATURE)

FACILITY REPRESENTATIVE: ACP. (SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 2529 586830

LEASE OPERATOR/SHIPPER/COMPANY: Chevron	DATE: 1-25-21
LEASE NAME: Talco 25-25-35 fed # 1	TIME: 4:17 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 027
TRANSPORTER COMPANY: Ornelas Trucking	PHONE:
GENERATOR COMPANY MAN'S NAME: Michael Moole	PHONE: 575-394-1219

CHARGE TO: Chevron

TYPE OF MATERIAL

[ ] Tank Bottoms [ ] Drilling Fluids [ ] Rinsate [ ] BS&W Content:
[ ] Solids [X] Contaminated Soil [ ] Jet Out _____

Description: OD

VOLUME OF MATERIAL

[ ] BBLS. _____ : [X] YARD 20 : [ ] _____

RRC or API # C-133# N.M

STICKERS, CODES, NUMBERS, ETC.

VCLG9304 X

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY *that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: Octavio Ornelas (SIGNATURE)

FACILITY REPRESENTATIVE: R Aguirre (SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 586823

LEASE OPERATOR/SHIPPER/COMPANY: Chevron	DATE: 01-28-21
LEASE NAME: Tallo 2525 33 Fed #1	TIME: 3:40 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 101
TRANSPORTER COMPANY: M. Mata.	PHONE:
GENERATOR COMPANY MAN'S NAME: Michael Moore.	PHONE:

CHARGE TO: Chevron

TYPE OF MATERIAL

[ ] Tank Bottoms [ ] Drilling Fluids [ ] Rinsate [ ] BS&W Content: ______
[ ] Solids [/] Contaminated Soil [ ] Jet Out

Description: CD

VOLUME OF MATERIAL [ ] BBLS. ______ : [/] YARD 20 : [ ] ______

RRC or API # 30-025-42548 C-133# NM.

STICKERS, CODES, NUMBERS, ETC.
CC: UCLGIAJ04X.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

***THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: Jesus Rivera.
(SIGNATURE)

FACILITY REPRESENTATIVE: ACP.
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c

SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 2324 586830

LEASE OPERATOR/SHIPPER/COMPANY: Chevron	DATE: 1-25-21
LEASE NAME: Talco 25-25-35 fed # 1	TIME: 4:17 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 027
TRANSPORTER COMPANY: Ornelas Trucking	PHONE:
GENERATOR COMPANY MAN'S NAME: Michael Moore	PHONE: 575-394-1219

CHARGE TO: Chevron

TYPE OF MATERIAL

[ ] Tank Bottoms [ ] Drilling Fluids [ ] Rinsate [ ] BS&W Content:
[ ] Solids [X] Contaminated Soil [ ] Jet Out _____

Description: OD

VOLUME OF MATERIAL

[ ] BBLS. _____ : [X] YARD 20 : [ ] _____

RRC or API # C-133# N.M

STICKERS, CODES, NUMBERS, ETC.

VCLG9504 X

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY *that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: Octavio Ornelas
(SIGNATURE)

FACILITY REPRESENTATIVE: R Aguirre
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

586823

CHEVRON
MCBU

Eunice, NM

NO #EUN- 2328 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO. T151

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON	2401 Avenue 'O'	1/25/21
PHONE NO. 575-394-1219	CITY Eunice, STATE NM, ZIP 88231	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Soil UCLG9504X - Talco	1	TT	20 yds		
b. Talco 25 25 35 Fed #1					
c. API 30-025-42548					
d. cost code UCLG9504X					

12. COMMENTS OR SPECIAL INSTRUCTIONS:

13. WASTE PROFILE NO.

14.

In Case of Emergency or Spill, Contact
TROY COOLEY 281-881-6211
CHEMTREC 800-424-9300

24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** Hereby declare that the contents of this consignment are fully and accurately described above.

PRINTED TYPED NAME	SIGNATURE	DATE
Michael Moore	Michael Moore	1/25/21

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME M Mata Trucking LLC	NAME
Jesse Romo	
IN CASE OF EMERGENCY CONTACT: Robert Nelson	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: 432-664-4804	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME _____	PRINTED/TYPED NAME _____
SIGNATURE _____ DATE _____	SIGNATURE _____ DATE _____

DISPOSAL FACILITY

	ADDRESS:	PHONE:

PERMIT NO.

20. COMMENTS

Sundance Services West, Inc
P.O. Box 1737
Eunice, NM 88231
575-394-2511

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
ALP		1-25-21	3:40PM

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Eunice PO Box 1949 Eunice, NM 88231

GENERATOR: COPY 1 TRANSPORTER: COPY 2 DISPOSAL SITE: COPY 3 & 4

CHEVRON
MCBU

586830

Eunice, NM

NO #EUN- 2329 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO. G37

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON PHONE NO. 575-394-1219	2401 Avenue 'O' CITY Eunice, STATE NM ZIP 88231	1/25/21 6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Soil	1	TT	20 yds		
b. Talco 25 25 35 Fed #1					
c. API 30-025-42548					
d. UCLG9304X					

12. COMMENTS OR SPECIAL INSTRUCTIONS:

13. WASTE PROFILE NO.

In Case of Emergency or Spill, Contact
TROY COOLEY 281-881-6211
CHEMTREC 800-424-9300

14. 24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** Hereby declare that the contents of this consignment are fully and accurately described above.

PRINTED TYPED NAME	SIGNATURE	DATE
Michael Moore	Michael Moore	1/25/21

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME Ornelas Truckin & Octavio Ornelas	NAME
IN CASE OF EMERGENCY CONTACT: Robert Nelson	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: 432-664-4504	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME	PRINTED/TYPED NAME
SIGNATURE Octavio Ornelas DATE 1-25-21	SIGNATURE DATE

DISPOSAL FACILITY

ADDRESS:
Sundance Services West, Inc.
P.O. Box 1737
Eunice, NM 88231
575-390-7842
Permit # NM 1-62

PHONE:

PERMIT NO.

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
R Aguirre		1-25-21	4:19 pm

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Eunice PO Box 1949 Eunice, NM 88231

GENERATOR: COPY 1 TRANSPORTER: COPY 2 DISPOSAL SITE: COPY 3 & 4

586823

CHEVRON
MCBU
Eunice, NM

NO #EUN- 2328 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO. T151

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON PHONE NO. 575-394-1219	2401 Avenue 'O' CITY Eunice, STATE NM, ZIP 88231	1/25/21 6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Soil UCLG9304X - Talco	1	FT	20 yds		
b. Talco 25 25 35 (-d 1±1					
c. API 30-025-45547					
d. Cost Code UCLGU304X					

12. COMMENTS OR SPECIAL INSTRUCTIONS:

13. WASTE PROFILE NO.

14.

In Case of Emergency or Spill, Contact
TROY COOLEY 281-881-6211
CHEMTREC 800-424-9300

24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** Hereby declare that the contents of this consignment are fully and accurately described above.

PRINTED TYPED NAME	SIGNATURE	DATE
Michael Moore		1/25/21

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME	NAME
IN CASE OF EMERGENCY CONTACT: Robert Nelson	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: 432-664-4204	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME	PRINTED/TYPED NAME
SIGNATURE DATE	SIGNATURE DATE

DISPOSAL FACILITY

	ADDRESS:	PHONE:
PERMIT NO.	20. COMMENTS	

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
ALL		1-25-21	3:40pm

Sundance Services P.O. Box 17 Eunice, NM 575 394 2511 Permit NM-01-0003

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Eunice PO Box 1949 Eunice, NM 88231

GENERATOR: COPY 1 TRANSPORTER: COPY 2 DISPOSAL SITE: COPY 3 & 4

CHEVRON
MCBU

586830

Eunice, NM

NO #EUN- 2329 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO. 637

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON	2401 Avenue 'O'	1/25/21
PHONE NO. 575-394-1219	CITY Eunice, STATE NM, ZIP 88231	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	8. CONTAINERS Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Soil	1	TT	20 yds		
b. Talco 25 25 35 Fed #1					
c. API 30-025-42548					
d. UCLG9504X					

12. COMMENTS OR SPECIAL INSTRUCTIONS:

13. WASTE PROFILE NO.

In Case of Emergency or Spill, Contact
TROY COOLEY 281-881-6211
CHEMTREC 800-424-9300

14. 24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** Hereby declare that the contents of this consignment are fully and accurately described above.

PRINTED TYPED NAME	SIGNATURE	DATE
Michael Moore	Michael Moore	1/25/21

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME Ornelas Trucking / Octavio Ornelas	NAME
IN CASE OF EMERGENCY CONTACT: Robert Nelson	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: 432-664-4504	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME	PRINTED/TYPED NAME
SIGNATURE DATE 1-25-21	SIGNATURE DATE

DISPOSAL FACILITY

	ADDRESS:	PHONE:
	Sundance Services West, Inc. P.O. Box 1737 Eunice, NM 88231 575-390-7842	

PERMIT NO. 20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
R Aguirre		1-25-21	4:19 pm

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Eunice PO Box 1949 Eunice, NM 88231

GENERATOR: COPY 1 TRANSPORTER: COPY 2 DISPOSAL SITE: COPY 3 & 4

SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 587483

LEASE OPERATOR/SHIPPER/COMPANY: Chevron.	DATE: 02-04-21
LEASE NAME: Talco #28.	TIME: 3:38 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 1
TRANSPORTER COMPANY: Rocky Peke.	PHONE:
GENERATOR COMPANY MAN'S NAME: Mike Nemanic.	PHONE: 832-294-4552

CHARGE TO: Chevron

TYPE OF MATERIAL

[ ] Tank Bottoms [ ] Drilling Fluids [ ] Rinsate [ ] BS&W Content:
[ ] Solids [X] Contaminated Soil [ ] Jet Out

Description: OD

VOLUME OF MATERIAL

[ ] BBLS. _____ : [X] YARD 12 : [ ] _____

RRC or API # C-133#

STICKERS, CODES, NUMBERS, ETC.

UCLG9J04X

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY *that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: _____ (SIGNATURE)

FACILITY REPRESENTATIVE: A.L.P. (SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c

SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 2334 587491

LEASE OPERATOR/SHIPPER/COMPANY: Chevron	DATE: 07-04-21
LEASE NAME: Taico #25	TIME: 4:55 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 027
TRANSPORTER COMPANY: Oneigas Trucking	PHONE:
GENERATOR COMPANY MAN'S NAME: Mike Nemanic	PHONE: 832-294-4558

CHARGE TO: Chevron

TYPE OF MATERIAL

[ ] Tank Bottoms [ ] Drilling Fluids [ ] Rinsate [ ] BS&W Content:
[ ] Solids [X] Contaminated Soil [ ] Jet Out _____

Description: OD

VOLUME OF MATERIAL

[ ] BBLS. _____ : [X] YARD 20 : [ ] _____

RRC or API # C-133#

STICKERS, CODES, NUMBERS, ETC.

UCUGAJ049X

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY *that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: _____
(SIGNATURE)

FACILITY REPRESENTATIVE: _____
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c

SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 587483

LEASE OPERATOR/SHIPPER/COMPANY: Chevron.	DATE: 02-04-21
LEASE NAME: Talco #25.	TIME: 3:38 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 1
TRANSPORTER COMPANY: Rocky Peke.	PHONE:
GENERATOR COMPANY MAN'S NAME: Mike Nemanic.	PHONE: 832-294-4558

CHARGE TO: Chevron

TYPE OF MATERIAL

[ ] Tank Bottoms [ ] Drilling Fluids [ ] Rinsate [ ] BS&W Content:
[ ] Solids [/] Contaminated Soil [ ] Jet Out _____

Description: OD

VOLUME OF MATERIAL

[ ] BBLS._____: [/] YARD 12 : [ ] _____

RRC or API # **C-133#**

STICKERS, CODES, NUMBERS, ETC.

UCLG9J04X

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY *that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: _____
(SIGNATURE)

FACILITY REPRESENTATIVE: ACP
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c

SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 2350 587491

LEASE OPERATOR/SHIPPER/COMPANY: Chevron.	DATE: 02-04-21
LEASE NAME: Taico #25	TIME: 4:55 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 027
TRANSPORTER COMPANY: Oneias Trucking.	PHONE:
GENERATOR COMPANY MAN'S NAME: Mike Hernanic	PHONE: 832-294-4058

CHARGE TO: Chevron.

TYPE OF MATERIAL

[ ] Tank Bottoms [ ] Drilling Fluids [ ] Rinsate [ ] BS&W Content:
[ ] Solids [✓] Contaminated Soil [ ] Jet Out _____

Description: OD

VOLUME OF MATERIAL

[ ] BBLS. _____ : [✓] YARD 20 : [ ] _____

RRC or API # C-133#

STICKERS, CODES, NUMBERS, ETC.

UCUGAJ049X.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY *that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: _____
(SIGNATURE)

FACILITY REPRESENTATIVE: _____
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c

TKH 587483.

CHEVRON
MCBU

Eunice, NM

NO #EUN- 2331 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON PHONE NO. 575-394-1219	2401 Avenue 'O' CITY STATE ZIP Eunice, NM 88231	04 FEB 20 6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	8. CONTAINERS Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Contaminated soil					
b. TALCO #25					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS:

13. WASTE PROFILE NO.

14. In Case of Emergency or Spill, Contact
~~PROS COOLEY 281-381-6241~~
CHEMTREC 800-424-9300

MIKE NEMANIC
24-HOUR EMERGENCY NO.
(832) 294-4558

15. **GENERATOR'S CERTIFICATION:** Hereby declare that the contents of this consignment are fully and accurately described above.

PRINTED TYPED NAME	SIGNATURE	DATE
YOUNG, JOSEPH		04 FEB 20

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME	NAME
IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME _____	PRINTED/TYPED NAME _____
SIGNATURE _____ DATE _____	SIGNATURE _____ DATE _____

DISPOSAL FACILITY

	ADDRESS:	PHONE:
	Sundance Services West, Inc. P.O. Box 1737 Eunice, NM 88231 575-390-7822 Permit # NM-1-62	
PERMIT NO.	20. COMMENTS	

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
ALP		02/04/21.	8:38 am

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Eunice PO Box 1949 Eunice, NM 88231

GENERATOR: COPY 1 TRANSPORTER: COPY 2 DISPOSAL SITE: COPY 3 & 4

UCL 69J04X

TR# 587491

CHEVRON
MCBU

Eunice, NM

NO #EUN- 2332 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON PHONE NO. 575-394-1219	2401 Avenue 'O' CITY STATE ZIP Eunice, NM 88231	04 FEB 20 6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	8. CONTAINERS Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Contaminated soil					
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS:

13. WASTE PROFILE NO.

14. In Case of Emergency or Spill, Contact
[redacted]
CHEMTREC 800-424-9300

MIKE NEMANIC
24-HOUR EMERGENCY NO.
(832) 294-4558

15. **GENERATOR'S CERTIFICATION:** Hereby declare that the contents of this consignment are fully and accurately described above.

PRINTED TYPED NAME	SIGNATURE	DATE
YOUNG, JOSEPH		04 FEB 20

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME	NAME
IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME _____	PRINTED/TYPED NAME _____
SIGNATURE _____ DATE _____	SIGNATURE _____ DATE _____

DISPOSAL FACILITY

	ADDRESS:	PHONE:
PERMIT NO.	20. COMMENTS	

Sundance Services West, Inc.
P.O. Box 1737
Eunice, NM 88231
575-390-7842
NM 1-62

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
ACP		02.04.21	4:55 pm

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Eunice PO Box 1949 Eunice, NM 88231

GENERATOR: COPY 1 TRANSPORTER: COPY 2 DISPOSAL SITE: COPY 3 & 4

NCLG9.T04X

Appendix F

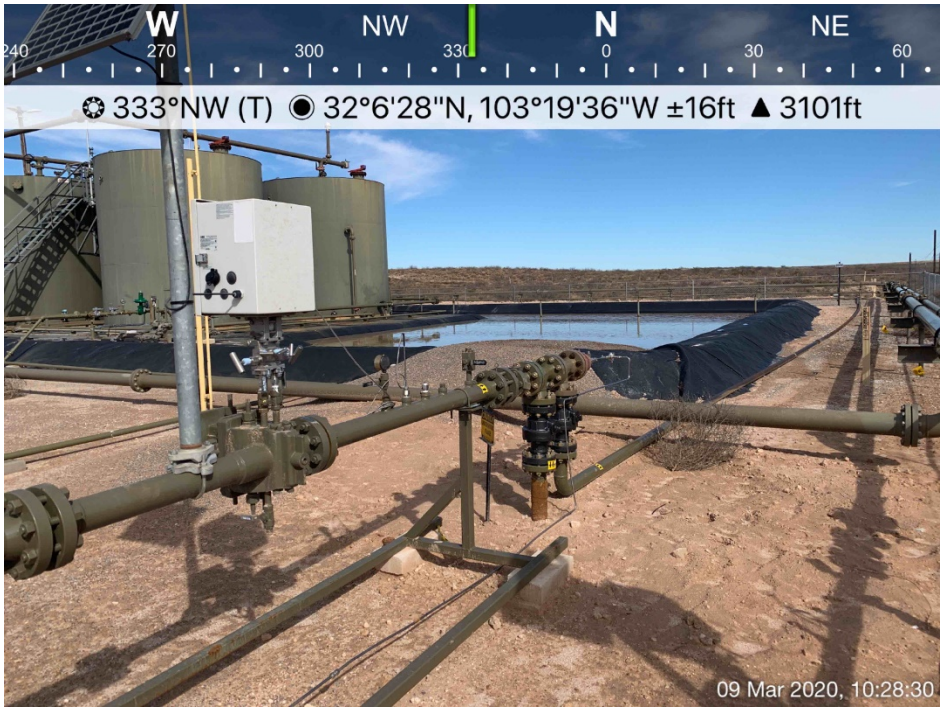
Photographs

Tracking Number: nRM2006453458
Closure Report
Chevron USA, Inc., Talco 25 25 35 Federal #001H
Produced Water Release
March 3, 2020

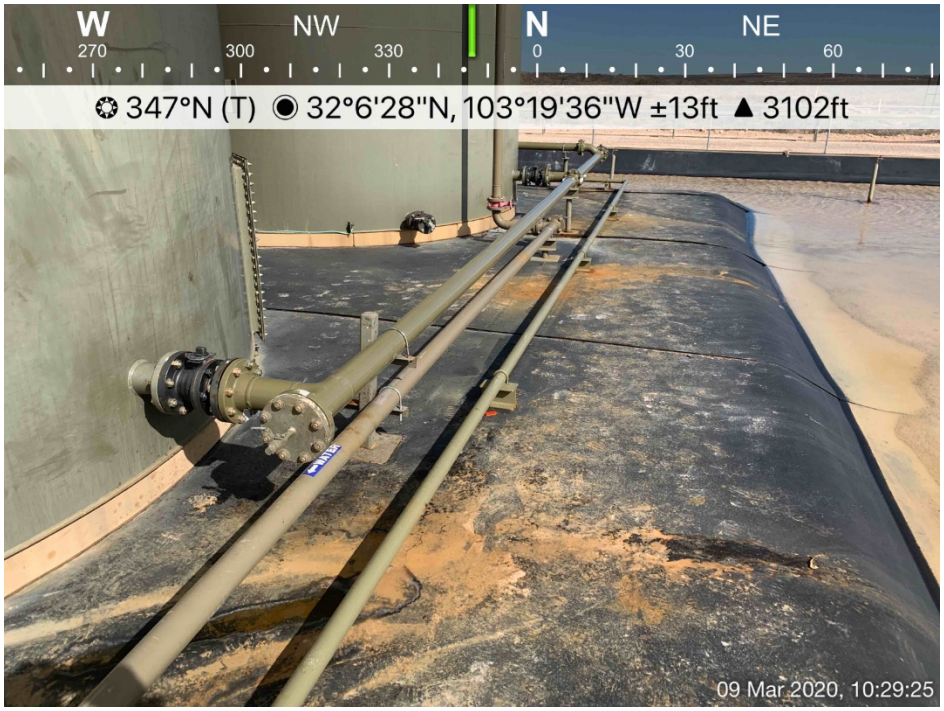
Stormwater contained within lined berm, viewing southeast

Stormwater contained within lined berm, viewing southwest

Tracking Number: nRM2006453458
Closure Report
Chevron USA, Inc., Talco 25 25 35 Federal #001H
Produced Water Release
March 3, 2020

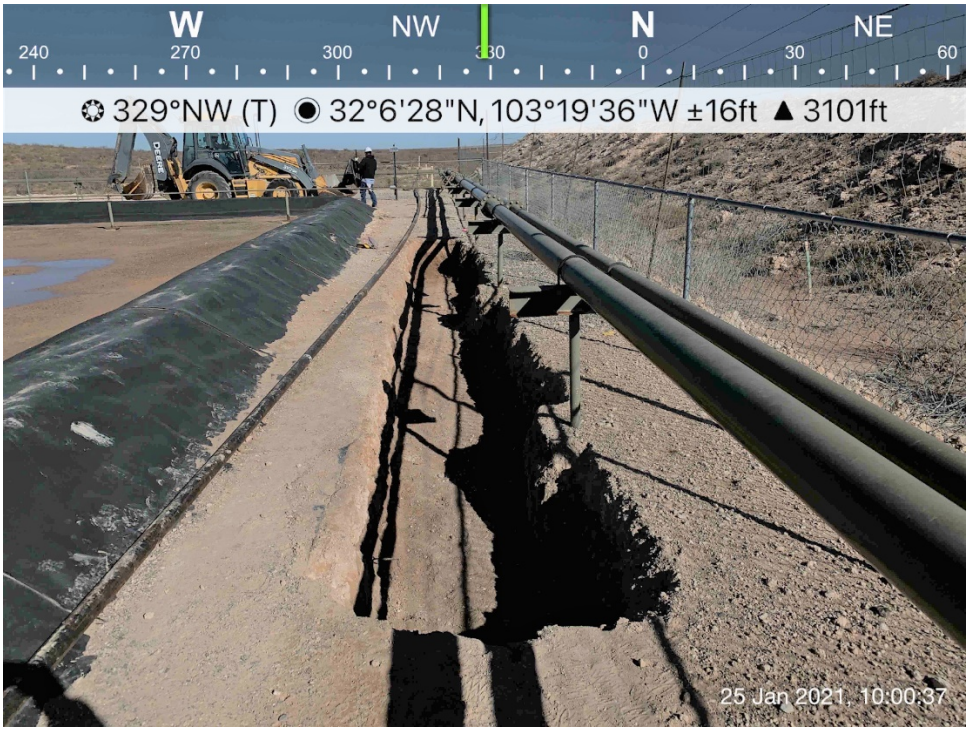


Lined berm viewing northwest



Release source (load line) viewing north

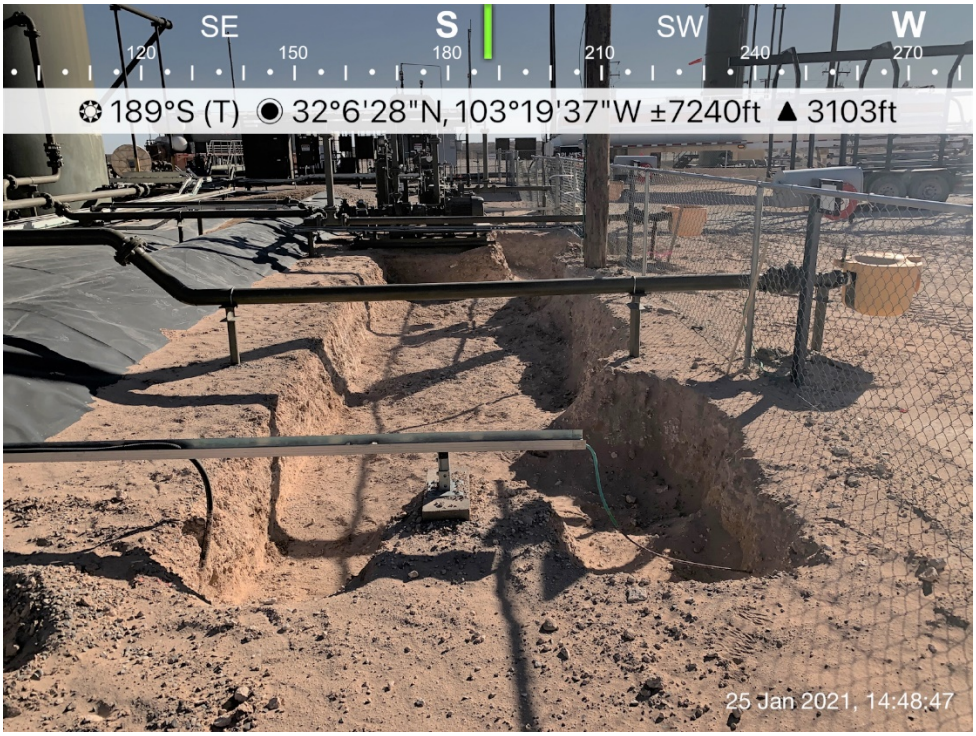
Tracking Number: nRM2006453458
Closure Report
Chevron USA, Inc., Talco 25 25 35 Federal #001H
Produced Water Release
March 3, 2020



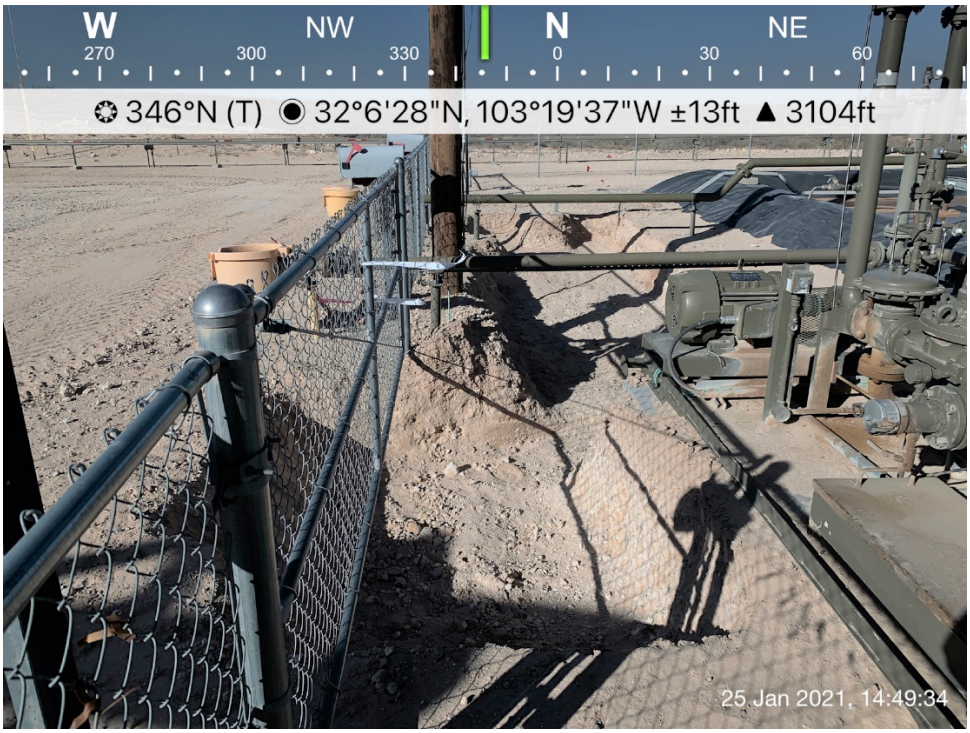
East area excaterated to a depth of 2 feet bgs, January 25, 2021

Soil stockpiled on liner prior to removal, January 25, 2021

Tracking Number: nRM2006453458
Closure Report
Chevron USA, Inc., Talco 25 25 35 Federal #001H
Produced Water Release
March 3, 2020



West area excavated to a depth of 2 feet bgs, January 25, 2021

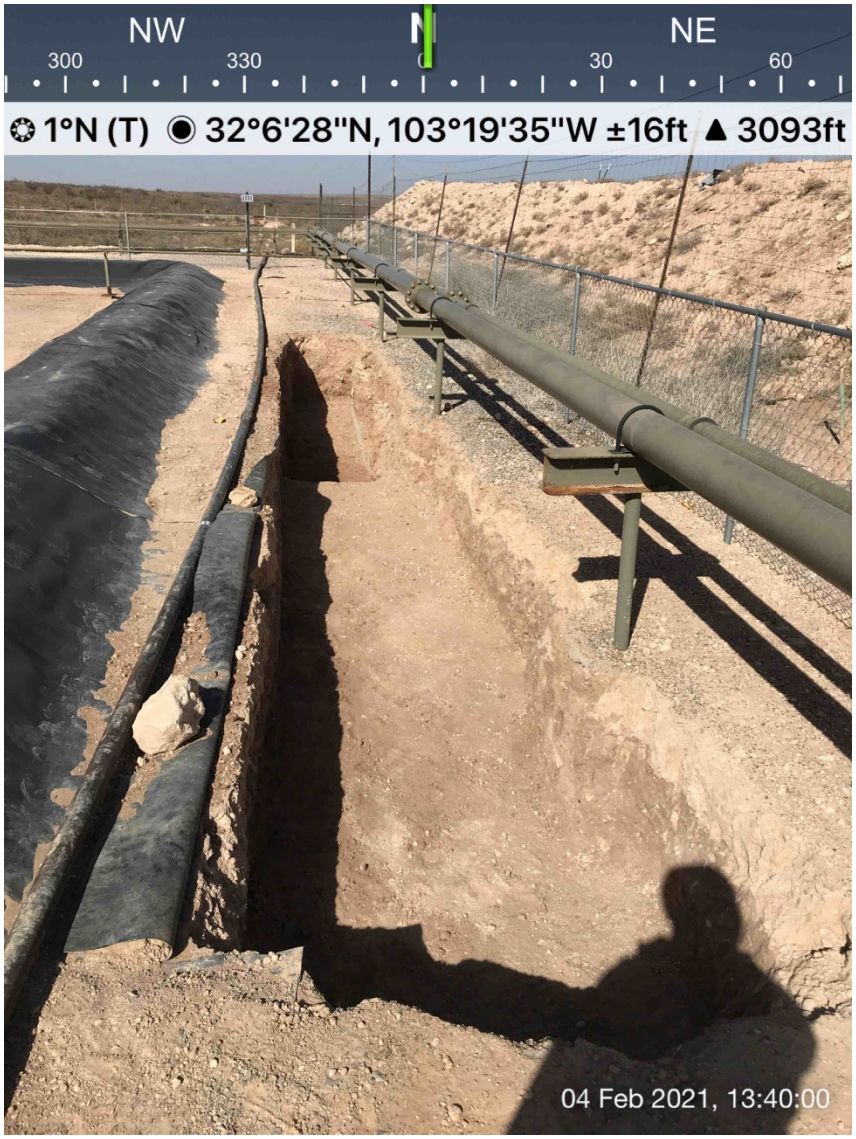


West area excavated to a depth of 2 feet bgs, January 25, 2021

Tracking Number: nRM2006453458
Closure Report
Chevron USA, Inc., Talco 25 25 35 Federal #001H
Produced Water Release
March 3, 2020

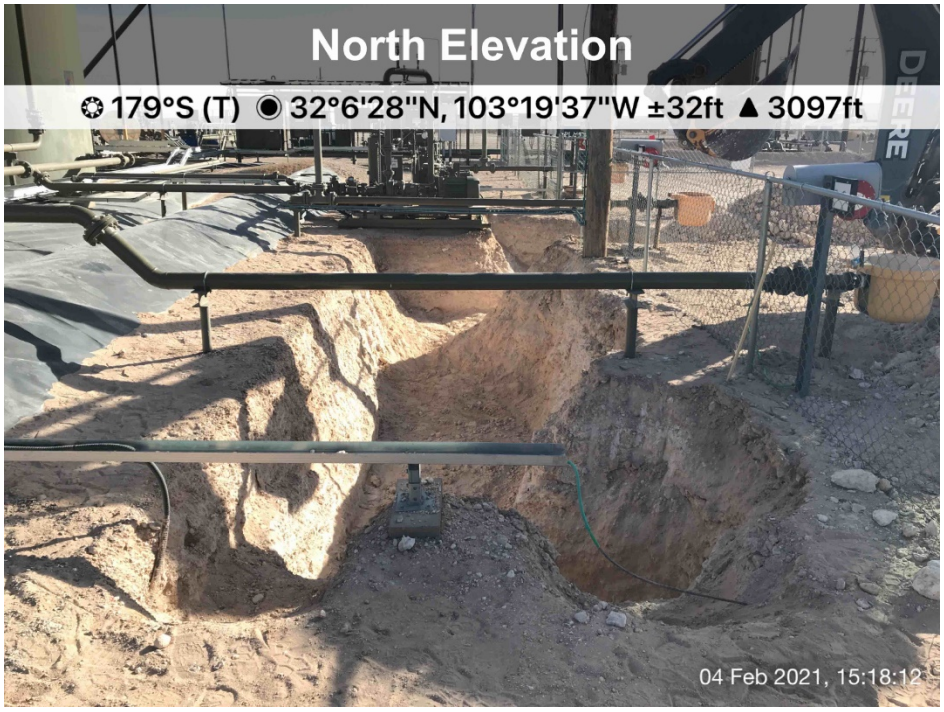
Soil excavated encompassing C-2 to a depth of 3 feet bgs, February 4, 2021

Tracking Number: nRM2006453458
Closure Report
Chevron USA, Inc., Talco 25 25 35 Federal #001H
Produced Water Release
March 3, 2020



An additional 1 foot excavated from the sidewall of C-4, February 4, 2021

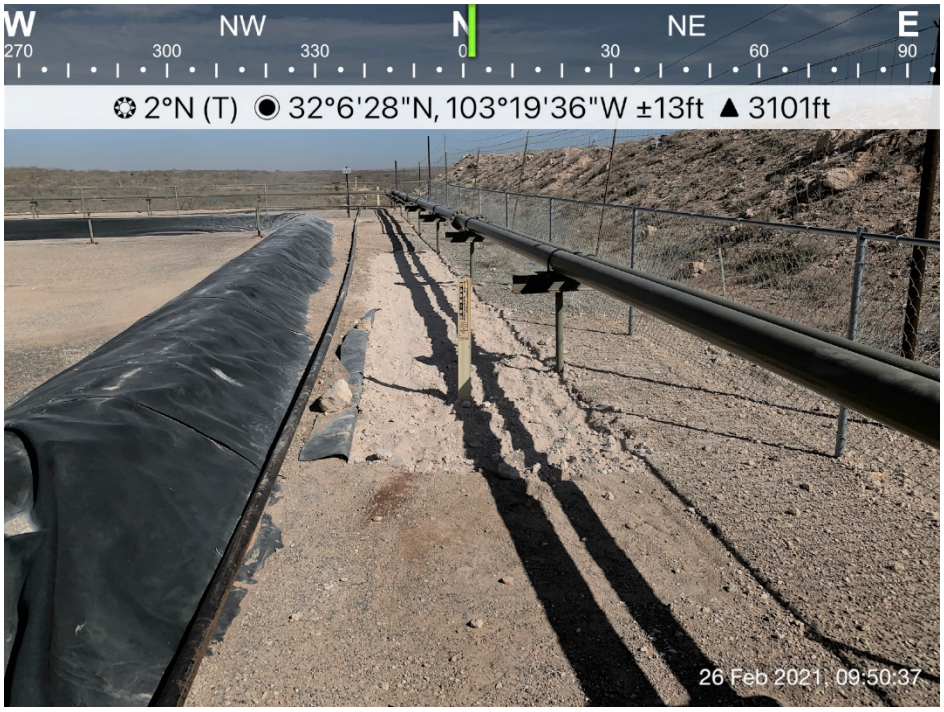
Tracking Number: nRM2006453458
Closure Report
Chevron USA, Inc., Talco 25 25 35 Federal #001H
Produced Water Release
March 3, 2020



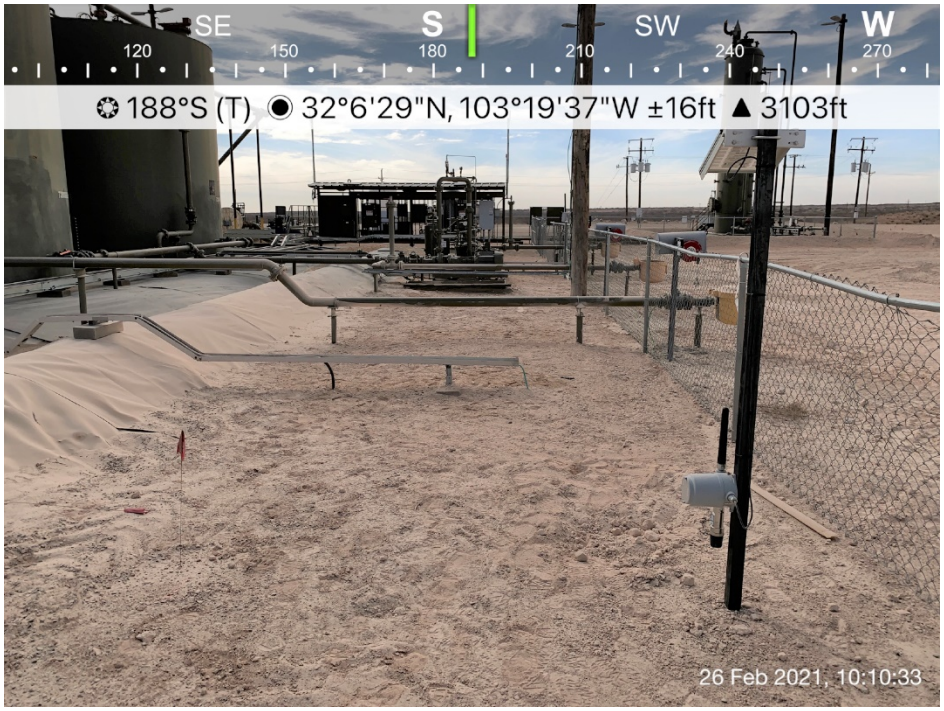
Soil excavated to a depth of 4.1 feet bgs encompassing C-5 and C-6, February 4, 2021

Soil excavated to a depth of 4.1 feet bgs encompassing C-5 and C-6, February 4, 2021

Tracking Number: nRM2006453458
Closure Report
Chevron USA, Inc., Talco 25 25 35 Federal #001H
Produced Water Release
March 3, 2020

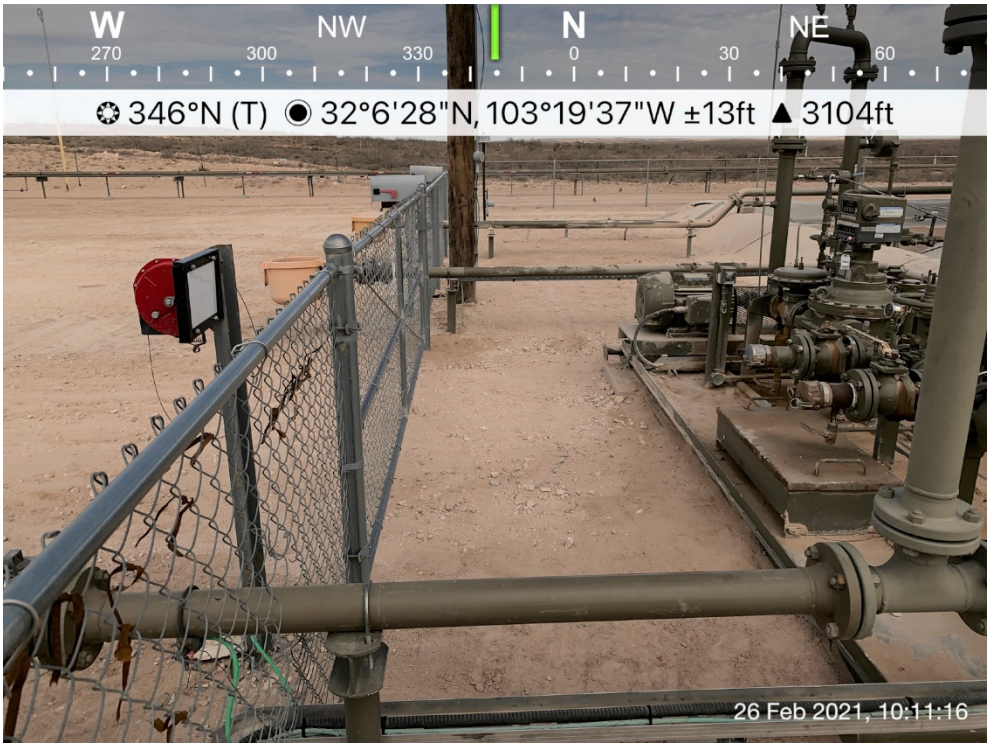


Backfilled eastern excavation area, February 26, 2021



Backfilled western excavation area, February 26, 2021

Tracking Number: nRM2006453458
Closure Report
Chevron USA, Inc., Talco 25 25 35 Federal #001H
Produced Water Release
March 3, 2020



Backfilled western area excavation, February 26, 2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 20713

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
CHEVRON U S A INC	6301 Deauville Blvd	Midland, TX79706	4323	20713	C-141

OCD Reviewer	Condition
chensley	None