Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nRM2004350563
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?	25.25 (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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

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District RP	
Facility ID	
Application ID	

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: 1-11-21

email: ABarnhill@chevron.com Telephone: 432-940-8432

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nRM2004350563
District RP	
Facility ID	
Application ID	

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: 1-11-21

email: ABarnhill@chevron.com Telephone: 432-940-8524

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	nRM2004350563
District RP	
Facility ID	
Application ID	

Closure

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

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

[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: 1-11-21

email: ABarnhill@chevron.com Telephone: 432-940-8524

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Tracking Number: nRM2004350563
Closure Report
Skeen 2 26 27 State #002H Pumping Unit
Produced Water and Crude Oil Release
Eddy County, New Mexico

Latitude: N 32.078476°
Longitude: W -104.1631546°

LAI Project No. 20-0107-03

December 29, 2020

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. Geoscientist

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Table of Contents

Tables

Figures

Appendices

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan is submitted to the New Mexico Oil Conservation Division (OCD) District 2 on behalf of Chevron USA Inc. (Chevron) for a crude oil and produced water release at Skeen 2 26 27 State #002H (Site) located in Unit C (NE/4, NW/4), Section 2, Township 26 South, Range 27 East, in Eddy County New Mexico. The geodetic position is North 32.078476° and West -104.1631546°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on January 27, 2020, due to equipment failure. Chevron reported that approximately 2.3 barrels (bbls) of crude oil and 2.95 bbls of produced water were released. Approximately 2 bbls of crude oil and 2.95 bbls of produced water were recovered. The affected area measures approximately 2,598 square feet. Appendix A presents initial Chevron spill documentation and initial C-141. The OCD assigned the release incident number of nRM2004350563.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,212 feet above mean sea level (msl).
- The surface topography slopes gradually 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 “High Risk” potential.
- The soils are designated “Reeves-Gypsum land complex, 0 to 3 percent slopes” consisting of 8 inches of loam, underlain by 24 inches of clay loam, and 28 inches of gypsiferous material, in descending order.
- The upper geological unit is the Rustler Formation (Upper Permian) consisting of siltstone, gypsum, sandstone, and dolomite deposits (USGS).
- Groundwater occurs at approximately 25.25 feet below ground surface (bgs) based on depth to groundwater measurements 72 hours after installing a boring (BH-1) on April 29, 2020.

Appendix B presents karst potential map. Appendix C presents the boring log. Figure 4 presents the boring hole location.

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 100 mg/Kg
- Chloride 600 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 February 20, March 17, and May 13, 2020, LAI personnel used a stainless-steel hand auger to collect soil samples from eleven (11) locations (SP-1 through SP-11) inside of the spill area and in each cardinal direction of the spill (north, south, east, and west) to delineate the release vertically and horizontally. The samples were collected to approximately 0.5 and 1.0 feet below ground surface (bgs). The soil samples were delivered under chain of custody and preservation to Xenco Laboratories in Midland, Texas. The laboratory 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 BTEX were below the analytical method reporting limits and OCD remediation levels of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg, respectively, in all samples. Chloride and TPH exceeded the surface restoration limit (19.15.29.13 NMAC) of 600 mg/Kg and 100 mg/Kg, respectively, in the following samples:

Sample ID, Depth (Feet)	TPH (mg/Kg)	Chloride (mg/Kg)
S-1, 0 to 0.5	523	3,210
S-1, 0.5 to 1	237	3,360
S-2, 0 to 0.5	411	4,230
S-2, 0.5 to 1	753	4,290
S-3, 0 to 0.5	694	1,020
S-3, 0.5 to 1	795	677
S-4, 0 to 0.5	457	820
S-4, 0.5 to 1	663	1,050
S-6, 0 to 0.5	--	916
S-6, 0.5 to 1	--	657
S-7, 0 to 0.5	517	--
S-7, 0.5 to 1	--	877
S-8, 0 to 0.5	103	--

On March 17 and 18, 2019, LAI personnel used direct push technology (DPT) to further delineate the release. Soil samples were collected at 2, 3, 5 and 10 feet bgs, depending on subsurface conditions. The samples were delivered under chain of custody and preservation to Xenco and were analyzed for BTEX, TPH, and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively. TPH and chloride were delineated below the remediation limits of 100 mg/Kg and 600 mg/Kg, respectively, at all sample locations. Table 1 presents the soil sample analytical data summary. Appendix B presents the laboratory reports.

3.0 REMEDIATION

On November 17, 2020, P2 Construction, Inc. (P2) under supervision from LAI excavated soil from the crude oil and produced water release encompassing sample locations SP-1 through SP-4 and SP-6 through SP-8, measuring approximately 3,488 square feet. Soil was excavated to approximately one (1) foot bgs. Approximately 160 cubic yards of contaminated soil was stockpiled on a liner adjacent to the excavation prior to being hauled to the R360 Red Bluff disposal facility located approximately 13 miles northwest of Orla, Texas. On November 24, 2020, LAI personnel collected ten (10) confirmation soil samples from the bottom and sidewalls of the excavation. The soil samples were delivered under chain of custody and preservation to Xenco Laboratories (Xenco) in Carlsbad, New Mexico. The laboratory analyzed the samples for BTEX, TPH, and chloride by EPA SW-846 Methods 8021B, 8015M, and 300E, respectively. All confirmation soil samples reported benzene and BTEX below the OCD remediation levels. Chloride and TPH were reported above OCD remediation levels in the following confirmation sample:

Sample ID	Location	Depth (Feet)	TPH (mg/Kg)	Chloride (mg/Kg)
C-5	Bottom	1	216	1,300

On December 14, 2020, P2 excavated approximately one (1) foot of soil from the bottom of the excavation encompassing sample location C-5. Approximately 18 cubic yards of impacted material was removed and hauled to the R360 Red Bluff disposal facility. A subsequent confirmation soil sample reported TPH and chloride below the OCD remediation levels.

LAI personnel collected one (1) composite sample of clean caliche from a nearby State of New Mexico borrow pit. Bezene, BTEX, and TPH were below the analytical method reporting limit and chloride was less than 600 mg/Kg in the backfill composite sample. On December 28, 2020, the excavation was backfilled to ground surface with clean caliche. Table 2 presents the confirmation soil analytical data summary. Figure 3 presents the excavations and confirmation sample locations. Appendix D presents the laboratory reports. Appendix E presents the waste manifests. Appendix F presents photographic documentation.

4.0 CLOSURE REQUEST

Chevron USA requests no further action for this release.

Tables

Table 1
Soil Sample Analytical Data Summary
Skeen 2H
Eddy County, New Mexico
North 32 04' 42.83", West 104 09' 47.46"

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:									**100 / 2,500**	**600 / 10,000**
S-1	0 - 0.5	2/20/2020	In-Situ	<0.00202	<0.00202	<50.0	468	55.2	**523**	**3,210**
	0.5 - 1	2/20/2020	In-Situ	<0.00200	<0.00200	<50.0	237	<50.0	**237**	**3,360**
	2	3/17/2020	In-Situ	--	--	<50.0	<50.0	<50.0	<50.0	123
	3	3/17/2020	In-Situ	--	--	<49.8	<49.8	<49.8	<49.8	7.00
	5	3/17/2020	In-Situ	--	--	<50.0	<50.0	<50.0	<50.0	5.88
	10	3/17/2020	In-Situ	--	--	<49.9	<49.9	<49.9	<49.9	29.5
S-2	0 - 0.5	2/20/2020	In-Situ	<0.00200	0.07550	<50.0	411	<50.0	**411**	**4,230**
	0.5 - 1	2/20/2020	In-Situ	<0.00200	0.02440	<49.8	681	71.5	**753**	**4,290**
	2	3/18/2020	In-Situ	--	--	<50.0	<50.0	<50.0	<50.0	591
	3	3/18/2020	In-Situ	--	--	<49.9	<49.9	<49.9	<49.9	373
	5	3/18/2020	In-Situ	--	--	<49.8	<49.8	<49.8	<49.8	344
	8	3/18/2020	In-Situ	--	--	<50.0	<50.0	<50.0	<50.0	261
S-3	0 - 0.5	2/20/2020	In-Situ	<0.00200	<0.00200	<49.9	614	79.9	**694**	**1,020**
	0.5 - 1	2/20/2020	In-Situ	<0.00200	<0.00200	<50.0	711	84	**795**	**677**
	2	3/18/2020	In-Situ	--	--	<50.0	<50.0	<50.0	<50.0	323
	5	3/18/2020	In-Situ	--	--	<49.9	<49.9	<49.9	<49.9	95.4
	8	3/18/2020	In-Situ	--	--	<49.8	<49.8	<49.8	<49.8	19.6
	10	3/18/2020	In-Situ	--	--	<49.8	<49.8	<49.8	<49.8	14.6
S-4	0 - 0.5	2/20/2020	In-Situ	<0.00202	<0.00202	<49.8	404	52.5	**457**	**820**
	0.5 - 1	2/20/2020	In-Situ	<0.00199	<0.00199	<50.0	597	66.3	**663**	**1,050**
	2	3/17/2020	In-Situ	--	--	<49.9	<49.9	<49.9	<49.9	114
	3	3/17/2020	In-Situ	--	--	<50.0	<50.0	<50.0	<50.0	43.8

Table 1
Soil Sample Analytical Data Summary
Skeen 2H
Eddy County, New Mexico
North 32 04' 42.83", West 104 09' 47.46"

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:									**100 / 2,500**	**600 / 10,000**
	5	3/17/2020	In-Situ	--	--	<49.9	<49.9	<49.9	<49.9	61.3
	7.5	3/17/2020	In-Situ	--	--	<50.0	<50.0	<50.0	<50.0	40.1
S-5	0 - 0.5	2/20/2020	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	126
	0.5 - 1	2/20/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	151
S-6	0 - 0.5	2/20/2020	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	**916**
	0.5 - 1	2/20/2020	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	**657**
	2	3/17/2020	In-Situ	--	--	--	--	--	--	387
	4	3/17/2020	In-Situ	--	--	--	--	--	--	98.3
	5	3/17/2020	In-Situ	--	--	--	--	--	--	307
	8	3/17/2020	In-Situ	--	--	--	--	--	--	475
S-7	0 - 0.5	2/20/2020	In-Situ	<0.00199	<0.00199	<50.0	455	62.2	**517**	504
	0.5 - 1	2/20/2020	In-Situ	<0.00200	<0.00200	<50.0	60.7	<50.0	60.7	**877**
	2	3/17/2020	In-Situ	--	--	--	--	--	--	478
	3	3/17/2020	In-Situ	--	--	--	--	--	--	61.6
	5	3/17/2020	In-Situ	--	--	--	--	--	--	<4.95
	7.5	3/17/2020	In-Situ	--	--	--	--	--	--	<4.95
S-8	0 - 0.5	2/20/2020	In-Situ	<0.00200	<0.00200	<49.9	103	<49.9	**103**	152
	0.5 - 1	2/20/2020	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	111
S-9	0 - 0.5	3/17/2020	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<5.03
	0.5 - 1	3/17/2020	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<5.05

Table 1
Soil Sample Analytical Data Summary
Skeen 2H
Eddy County, New Mexico
North 32 04' 42.83", West 104 09' 47.46"

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:									**100 / 2,500**	**600 / 10,000**
S-10	0 - 0.5	3/17/2020	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	26.5
	0.5 - 1	3/17/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	18.0
S-11	0 - 0.5	5/13/2020	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	102
	0.5 - 1	5/13/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	104

Notes: Analysis performed by Xenco Laboratories in Midland, TX
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
Bold and Highlighted exceeds OCD delineation limits

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Skeen 2H
Eddy County, New Mexico
North 32°04'42.83", West 104°09'47.46"

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**	**600**
SW-N	Sidewall	0 - 1	11/24/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	116
SW-E	Sidewall	0 - 1	11/24/2020	In-Situ	<0.00200	<0.00200	<49.8	61.9	<49.8	61.9	289
SW-W	Sidewall	0 - 1	11/24/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	253
SW-S	Sidewall	0 - 1	11/24/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	22.1
C-1	Bottom	1	11/24/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	180
C-2	Bottom	1	11/24/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	184
C-3	Bottom	1	11/24/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	359
C-4	Bottom	1	11/24/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	128
C-5	Bottom	1	11/24/2020	In-Situ	<0.00200	<0.00200	<49.9	216	<49.9	**216**	**1,300**
		2	12/14/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	304
C-6	Bottom	1	11/24/2020	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	216
Backfill Caliche 1	--	--	11/23/2020	In-Situ	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<49.9

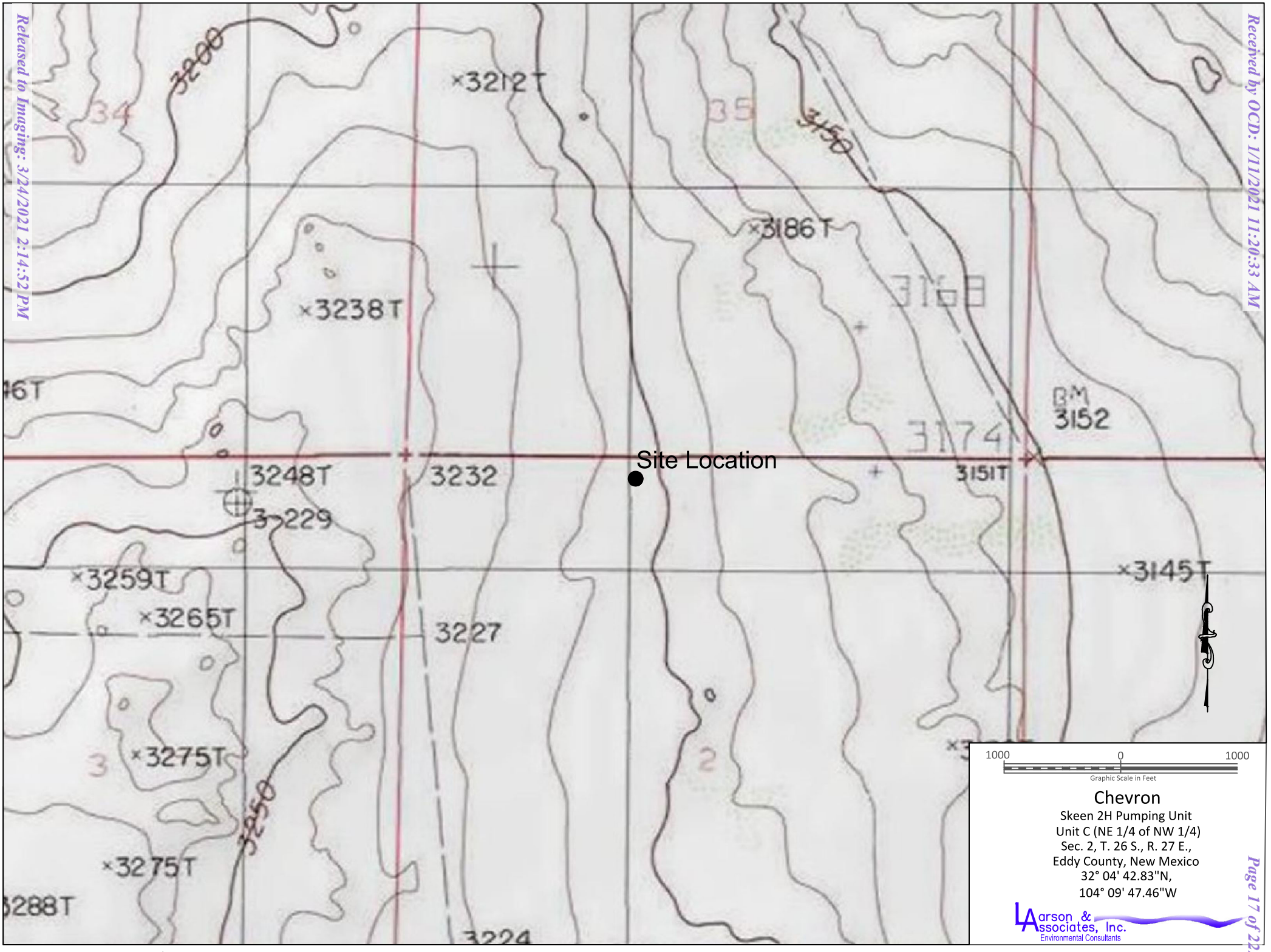
Notes: analysis performed by Xenco Laboratories (Xenco), Midland, Texas and Carlsbad, New Mexico by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and Method 300 (chloride)

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



Chevron
Skeen 2H Pumping Unit
Unit C (NE 1/4 of NW 1/4)
Sec. 2, T. 26 S., R. 27 E.,
Eddy County, New Mexico
32° 04' 42.83"N,
104° 09' 47.46"W

Larson & Associates, Inc.
Environmental Consultants

Figure 1 - Topographic Map

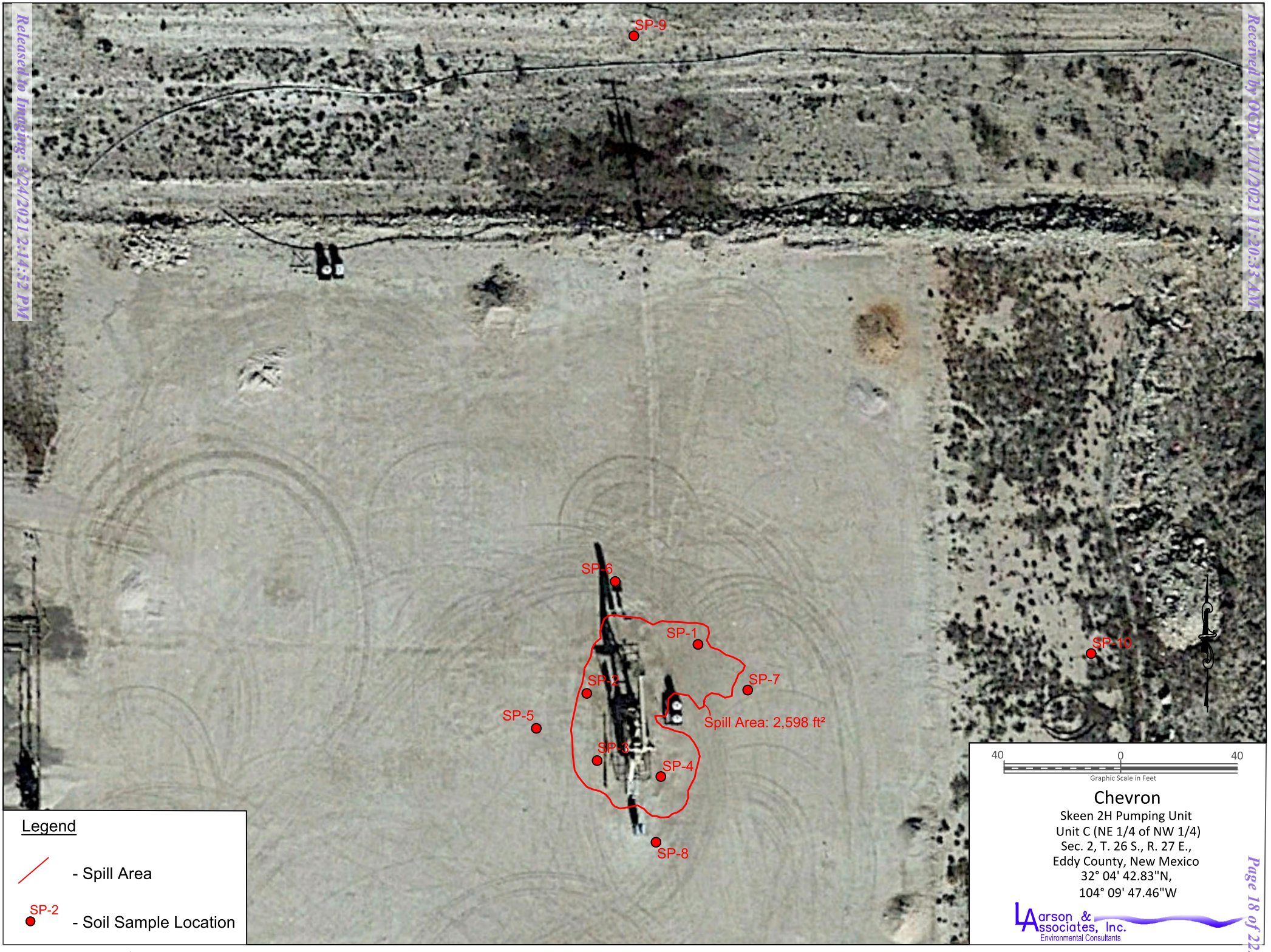


Figure 2 - Aerial Map

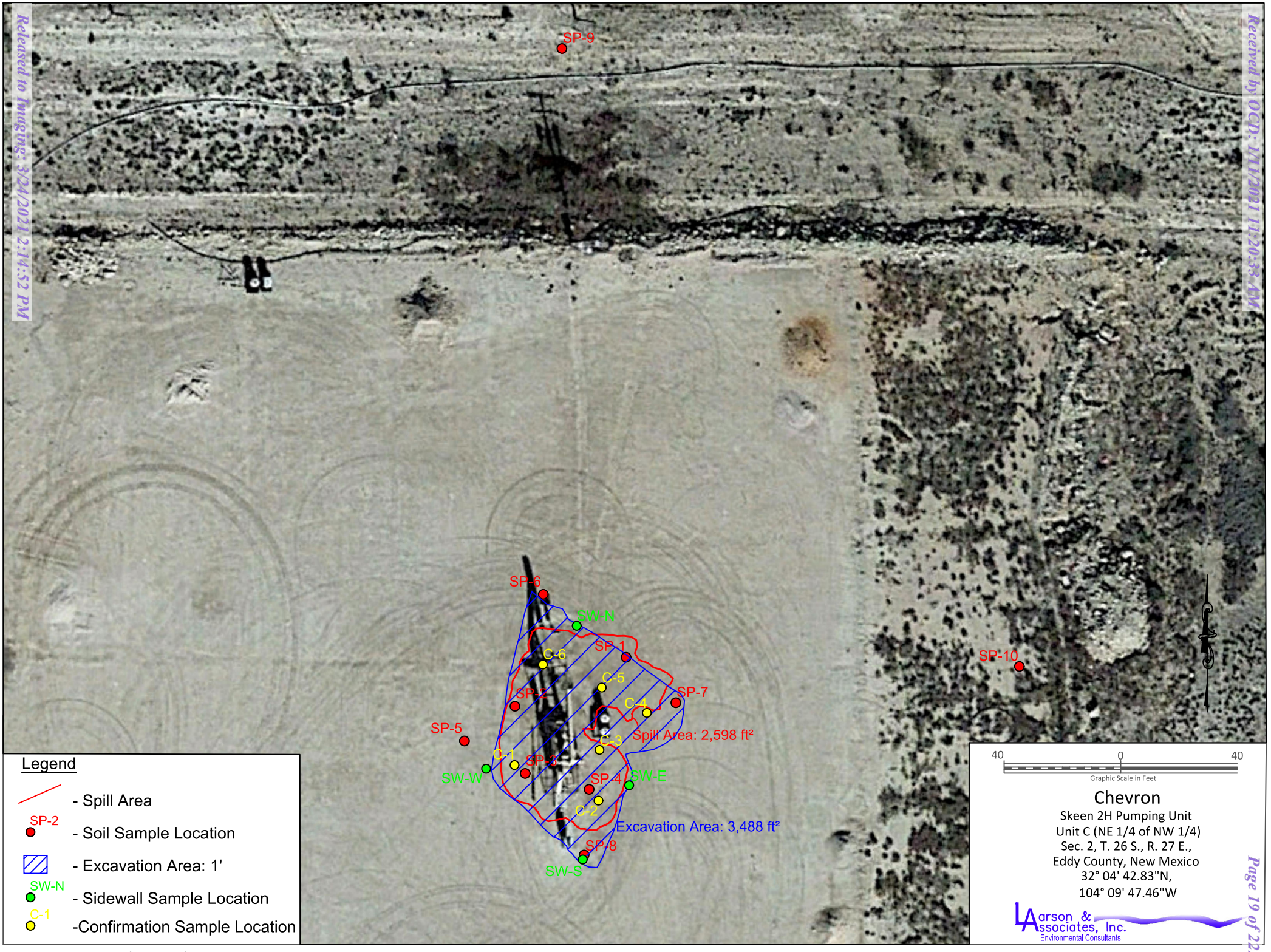


Figure 3 - Aerial Map Showing Excavation Location

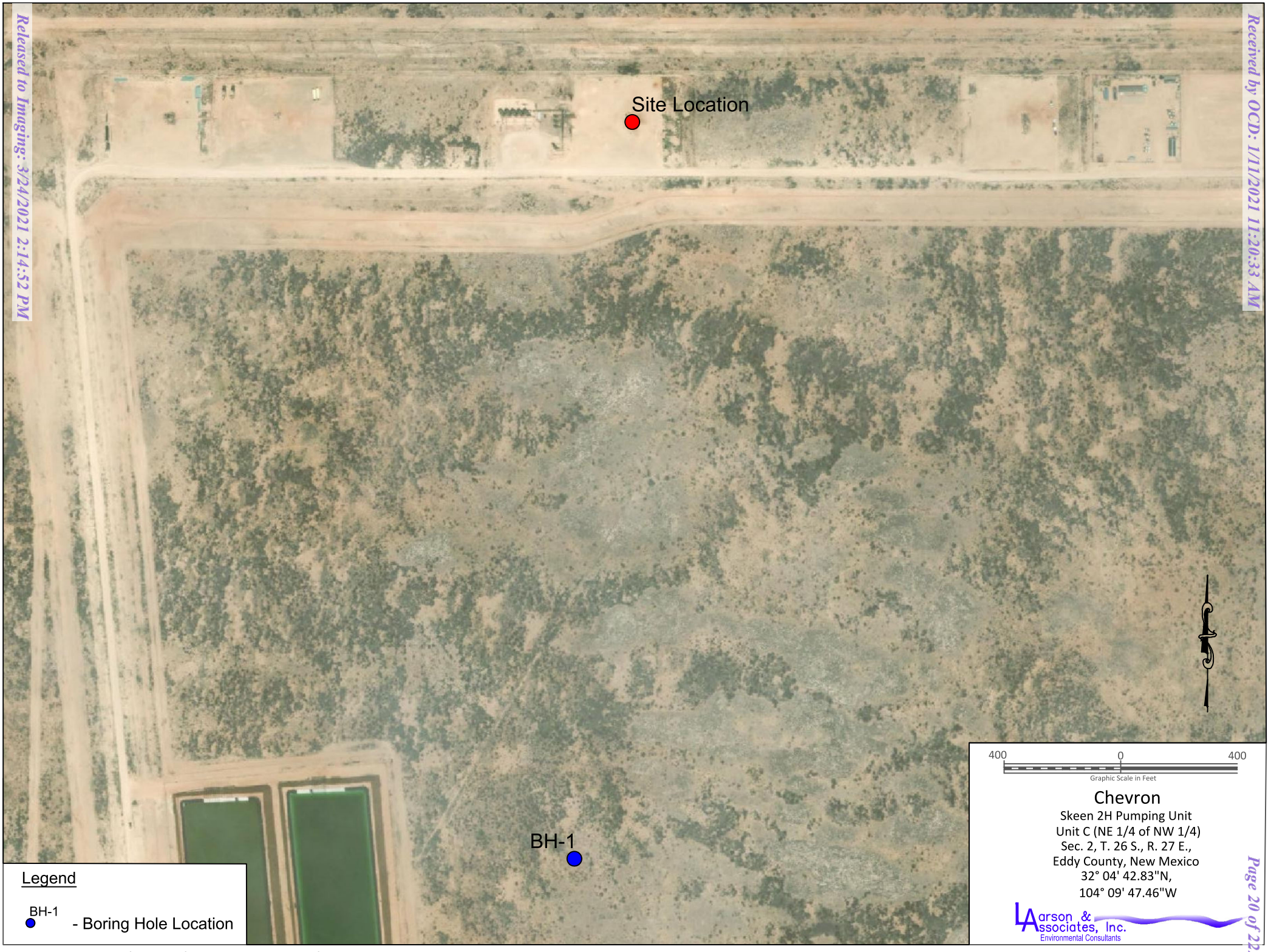


Figure 4 - Aerial Map Showing Boring Hole Location

Appendix A

Chevron Spill Calculation

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Incident Date			1/28/2020		
Incident Time			Start Time	End Time	
			7:55 AM	8:00 AM	
Location			Skeen 2H Pumping Unit		
Area	Standing Liquid	In Soil	size	Oil Volume	Water Volume
1	0.1667	0.26	15 X 3.14	2.3	2.95
2					
3					
4					
5					
			Total Fluid	2.3	2.95
	Fluid Recovered		Oil Volume	Water Volume	
			2	2.95	

Appendix B

Boring Log

BORING RECORD

Start: 11:30
Finish: 12:30

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG
	0	Silty Sand, 7.5YR 8/2, Pinkish White, Rounded, Fine Grained, Poorly Sorted, Subangular, 0.5-2cm Clast Inclusions	ML	
	5	Caliche, 7.5YR 8/1, White, Rounded, Poorly Sorted, Medium Grained, Subangular, 0.5-1cm Diameter Clast Inclusions	Caliche	
	10			
	15	Silty Sand, 7.5YR 6/6, Reddish Yellow, Rounded, Fine Grained, Poorly Sorted, Subangular, 0.5-1cm Diameter Clast Inclusions 7.5YR 6/8, Reddish Yellow, Subangular, 0.5-2.5cm Diameter Clast Inclusions	ML	
Depth to Water: 25.25	20			
	25	Quartz Sand, 2.5YR 8/2, Pinkish White, Fine Grained, Rounded, Poorly Sorted, Subangular, 0.5-2cm Diameter Clast Inclusions	SM	
	30			
	35			
	40	Quartz Sand, Very Fine Grained, Well Rounded, Poorly Sorted, 7.5YR 8/1, White, Subangular Clast Inclusions, 0.5-1.5cm Diameter		
	45			
	50		SM	

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

SAMPLE: NUMBER | PID READING | RECOVERY | DEPTH (1, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50)

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)
LABORATORY TEST LOCATION
PENETROMETER (TONS/ SQ. FT)
NR NO RECOVERY

JOB NUMBER : Chevron/ 20-0107-03
HOLE DIAMETER : 2"
LOCATION : Skeen 2H - Carlsbad, NM
LAI GEOLOGIST : R. Nelson
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 04-29-2020

BORING NUMBER : BH-1

BORING RECORD

Start: 11:30
Finish: 12:30

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG
	55			
	60		SM	
	65	Silty Sand, 18YR 6/5, Pale Brown, Rounded, Fine Grained, Moderately Sorted, Subangular, 0.5-1cm Diameter Inclusions		
	70		ML	
	75			
	80	2.5YR, Pink, Very Fine Grained, Well Rounded, Well Sorted, Subangular, 0.5-1cm Diameter Clast Inclusions		
	85		ML	
	90			
	95	TD: 95'		
	100			
	105			

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

SAMPLE: NUMBER | PID READING | RECOVERY | DEPTH

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/ 20-0107-03
HOLE DIAMETER : 2"
LOCATION : Skeen 2H - Carlsbad, NM
LAI GEOLOGIST : R. Nelson
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 04-29-2020

BORING NUMBER : BH-1

Appendix C

Karst Risk Potential

Appendix D

Laboratory Reports

Certificate of Analysis Summary 653356

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H Pumping Unit

Project Id: 20-0107-03
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Feb-21-20 03:47 pm
Report Date: 02-MAR-20
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	653356-001		653356-002		653356-003		653356-004		653356-005		653356-006	
	Field Id:	S-1 (0-0.5)		S-1 (0.5-1)		S-2 (0-0.5)		S-2 (0.5-1)		S-3 (0-0.5)		S-3 (0.5-1)	
	Depth:	0-0.5 ft		0.5-1 ft		0-0.5 ft		0.5-1 ft		0-0.5 ft		0.5-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-20-20 11:40		Feb-20-20 11:41		Feb-20-20 11:53		Feb-20-20 11:54		Feb-20-20 11:43		Feb-20-20 11:47	
BTEX by EPA 8021B	*Extracted:*	Feb-29-20 08:30		Feb-29-20 08:30		Feb-29-20 08:30		Feb-29-20 08:30		Feb-29-20 08:30		Feb-29-20 08:30	
	Analyzed:	Feb-29-20 14:03		Feb-29-20 14:23		Feb-29-20 14:43		Feb-29-20 15:03		Feb-29-20 15:23		Feb-29-20 15:43	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200	0.00370	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00403	0.00403	<0.00399	0.00399	0.0536	0.00401	0.0203	0.00401	<0.00399	0.00399	<0.00400	0.00400
o-Xylene		<0.00202	0.00202	<0.00200	0.00200	0.0182	0.00200	0.00412	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200	0.0718	0.00200	0.0244	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00202	0.00202	<0.00200	0.00200	0.0755	0.00200	0.0244	0.00200	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	*Extracted:*	Feb-24-20 12:40		Feb-24-20 12:40		Feb-24-20 12:40		Feb-24-20 12:40		Feb-24-20 12:40		Feb-24-20 12:40	
	Analyzed:	Feb-24-20 13:45		Feb-24-20 13:51		Feb-24-20 13:58		Feb-24-20 14:04		Feb-24-20 14:23		Feb-24-20 14:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3210	49.7	3360	49.9	4230	50.2	4290	49.8	1020	49.7	677	24.9
TPH By SW8015 Mod	*Extracted:*	Feb-24-20 13:00		Feb-24-20 13:00		Feb-24-20 13:00		Feb-24-20 13:00		Feb-24-20 13:00		Feb-24-20 13:00	
	Analyzed:	Feb-24-20 14:36		Feb-24-20 15:38		Feb-24-20 15:59		Feb-24-20 16:20		Feb-24-20 16:41		Feb-24-20 17:02	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0
Diesel Range Organics		468	50.0	237	50.0	411	50.0	681	49.8	614	49.9	711	50.0
Oil Range Hydrocarbons		55.2	50.0	<50.0	50.0	<50.0	50.0	71.5	49.8	79.9	49.9	84.0	50.0
Total TPH		523	50.0	237	50.0	411	50.0	753	49.8	694	49.9	795	50.0

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

Holly Taylor
Project Manager

Final 1.000

Certificate of Analysis Summary 653356

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H Pumping Unit

Project Id: 20-0107-03
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Feb-21-20 03:47 pm
Report Date: 02-MAR-20
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	653356-007		653356-008		653356-009		653356-010		653356-011		653356-012	
	Field Id:	S-4 (0-0.5)		S-4 (0.5-1)		S-5 (0-0.5)		S-5 (0.5-1)		S-6 (0-0.5)		S-6 (0.5-1)	
	Depth:	0-0.5 ft		0.5-1 ft		0-0.5 ft		0.5-1 ft		0-0.5 ft		0.5-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-20-20 11:36		Feb-20-20 11:38		Feb-20-20 11:50		Feb-20-20 11:53		Feb-20-20 12:02		Feb-20-20 12:07	
BTEX by EPA 8021B	*Extracted:*	Feb-29-20 08:30		Feb-29-20 08:30		Feb-29-20 08:30		Feb-29-20 08:30		Feb-29-20 08:30		Feb-29-20 08:30	
	Analyzed:	Feb-29-20 16:03		Feb-29-20 16:24		Feb-29-20 16:44		Feb-29-20 17:04		Feb-29-20 18:23		Feb-29-20 18:43	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198
Toluene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198
Ethylbenzene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198
m,p-Xylenes		<0.00403	0.00403	<0.00398	0.00398	<0.00397	0.00397	<0.00399	0.00399	<0.00397	0.00397	<0.00397	0.00397
o-Xylene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198
Total Xylenes		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198
Total BTEX		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198
Chloride by EPA 300	*Extracted:*	Feb-24-20 12:40		Feb-24-20 12:40		Feb-24-20 12:40		Feb-24-20 12:40		Feb-24-20 12:40		Feb-24-20 12:40	
	Analyzed:	Feb-24-20 14:35		Feb-24-20 14:41		Feb-24-20 14:48		Feb-24-20 15:13		Feb-24-20 15:19		Feb-24-20 15:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		820	50.0	1050	50.0	126	50.3	151	49.5	916	25.0	657	49.9
TPH By SW8015 Mod	*Extracted:*	Feb-24-20 13:00		Feb-24-20 13:00		Feb-24-20 13:00		Feb-24-20 13:00		Feb-24-20 13:00		Feb-24-20 13:00	
	Analyzed:	Feb-24-20 17:23		Feb-24-20 17:44		Feb-24-20 18:05		Feb-24-20 18:26		Feb-24-20 19:08		Feb-24-20 19:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9	<49.8	49.8
Diesel Range Organics		404	49.8	597	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9	<49.8	49.8
Oil Range Hydrocarbons		52.5	49.8	66.3	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9	<49.8	49.8
Total TPH		457	49.8	663	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9	<49.8	49.8

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

Holly Taylor
Project Manager

Final 1.000

Certificate of Analysis Summary 653356

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H Pumping Unit

Project Id: 20-0107-03
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Feb-21-20 03:47 pm
Report Date: 02-MAR-20
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	653356-013		653356-014		653356-015		653356-016					
	Field Id:	S-7 (0-0.5)		S-7 (0.5-1)		S-8 (0-0.5)		S-8 (0.5-1)					
	Depth:	0-0.5 ft		0.5-1 ft		0-0.5 ft		0.5-1 ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Feb-20-20 12:11		Feb-20-20 12:13		Feb-20-20 12:06		Feb-20-20 12:07					
BTEX by EPA 8021B	***Extracted:***	Mar-01-20 10:00		Mar-01-20 10:00		Mar-01-20 10:00		Mar-01-20 10:00					
	Analyzed:	Mar-01-20 15:49		Mar-01-20 16:09		Mar-01-20 16:30		Mar-01-20 16:50					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
m,p-Xylenes		<0.00398	0.00398	<0.00399	0.00399	<0.00401	0.00401	<0.00398	0.00398				
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
Chloride by EPA 300	***Extracted:***	Feb-24-20 12:40		Feb-24-20 12:40		Feb-24-20 12:40		Feb-24-20 12:40					
	Analyzed:	Feb-24-20 15:44		Feb-24-20 15:50		Feb-24-20 15:56		Feb-24-20 16:03					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		504	50.3	877	25.3	152	25.3	111	50.5				
TPH By SW8015 Mod	***Extracted:***	Feb-24-20 13:00		Feb-24-20 13:00		Feb-24-20 13:00		Feb-24-20 13:00					
	Analyzed:	Feb-24-20 19:50		Feb-24-20 20:11		Feb-24-20 20:32		Feb-24-20 20:53					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0				
Diesel Range Organics		455	50.0	60.7	50.0	103	49.9	<50.0	50.0				
Oil Range Hydrocarbons		62.2	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0				
Total TPH		517	50.0	60.7	50.0	103	49.9	<50.0	50.0				

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

Holly Taylor
Project Manager

Analytical Report 653356

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Skeen 2H Pumping Unit

20-0107-03

02-MAR-20

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)

02-MAR-20

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

Reference: XENCO Report No(s): **653356**
Skeen 2H Pumping Unit
Project Address: NM

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) 653356. 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. 653356 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

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

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

Sample Cross Reference 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 (0-0.5)	S	02-20-20 11:40	0 - 0.5 ft	653356-001
S-1 (0.5-1)	S	02-20-20 11:41	0.5 - 1 ft	653356-002
S-2 (0-0.5)	S	02-20-20 11:53	0 - 0.5 ft	653356-003
S-2 (0.5-1)	S	02-20-20 11:54	0.5 - 1 ft	653356-004
S-3 (0-0.5)	S	02-20-20 11:43	0 - 0.5 ft	653356-005
S-3 (0.5-1)	S	02-20-20 11:47	0.5 - 1 ft	653356-006
S-4 (0-0.5)	S	02-20-20 11:36	0 - 0.5 ft	653356-007
S-4 (0.5-1)	S	02-20-20 11:38	0.5 - 1 ft	653356-008
S-5 (0-0.5)	S	02-20-20 11:50	0 - 0.5 ft	653356-009
S-5 (0.5-1)	S	02-20-20 11:53	0.5 - 1 ft	653356-010
S-6 (0-0.5)	S	02-20-20 12:02	0 - 0.5 ft	653356-011
S-6 (0.5-1)	S	02-20-20 12:07	0.5 - 1 ft	653356-012
S-7 (0-0.5)	S	02-20-20 12:11	0 - 0.5 ft	653356-013
S-7 (0.5-1)	S	02-20-20 12:13	0.5 - 1 ft	653356-014
S-8 (0-0.5)	S	02-20-20 12:06	0 - 0.5 ft	653356-015
S-8 (0.5-1)	S	02-20-20 12:07	0.5 - 1 ft	653356-016

CASE NARRATIVE

Client Name: Larson and Associates, Inc.

Project Name: Skeen 2H Pumping Unit

Project ID: *20-0107-03*
Work Order Number(s): *653356*

Report Date: *02-MAR-20*
Date Received: *02/21/2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3118121 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3118135 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-1 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-001	Date Collected:	02.20.20 11.40	Sample Depth:	0 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3210**	49.7	mg/kg	02.24.20 13.45		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	02.24.20 14.36	U	1
Diesel Range Organics	C10C28DRO	**468**	50.0	mg/kg	02.24.20 14.36		1
Oil Range Hydrocarbons	PHCG2835	**55.2**	50.0	mg/kg	02.24.20 14.36		1
Total TPH	PHC635	**523**	50.0	mg/kg	02.24.20 14.36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	02.24.20 14.36	
o-Terphenyl	84-15-1	106	%	70-135	02.24.20 14.36	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-1 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-001	Date Collected:	02.20.20 11.40	Sample Depth:	0 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	02.29.20 08.30	Basis:	Wet Weight
Seq Number:	3118121				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.29.20 14.03	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.29.20 14.03	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.29.20 14.03	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.29.20 14.03	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.29.20 14.03	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.29.20 14.03	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.29.20 14.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.29.20 14.03	
4-Bromofluorobenzene	460-00-4	101	%	70-130	02.29.20 14.03	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-1 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-002	Date Collected:	02.20.20 11.41	Sample Depth:	0.5 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3360**	49.9	mg/kg	02.24.20 13.51		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	02.24.20 15.38	U	1
Diesel Range Organics	C10C28DRO	**237**	50.0	mg/kg	02.24.20 15.38		1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	02.24.20 15.38	U	1
Total TPH	PHC635	**237**	50.0	mg/kg	02.24.20 15.38		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	02.24.20 15.38	
o-Terphenyl	84-15-1	98	%	70-135	02.24.20 15.38	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-1 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-002	Date Collected:	02.20.20 11.41	Sample Depth:	0.5 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	02.29.20 08.30	Basis:	Wet Weight
Seq Number:	3118121				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 14.23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 14.23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 14.23	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.29.20 14.23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 14.23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 14.23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 14.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	02.29.20 14.23	
1,4-Difluorobenzene	540-36-3	99	%	70-130	02.29.20 14.23	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-2 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-003	Date Collected:	02.20.20 11.53	Sample Depth:	0 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4230**	50.2	mg/kg	02.24.20 13.58		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	02.24.20 15.59	U	1
Diesel Range Organics	C10C28DRO	**411**	50.0	mg/kg	02.24.20 15.59		1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	02.24.20 15.59	U	1
Total TPH	PHC635	**411**	50.0	mg/kg	02.24.20 15.59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	02.24.20 15.59	
o-Terphenyl	84-15-1	100	%	70-135	02.24.20 15.59	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-2 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-003	Date Collected:	02.20.20 11.53	Sample Depth:	0 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	02.29.20 08.30	Basis:	Wet Weight
Seq Number:	3118121				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 14.43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 14.43	U	1
Ethylbenzene	100-41-4	**0.00370**	0.00200	mg/kg	02.29.20 14.43		1
m,p-Xylenes	179601-23-1	**0.0536**	0.00401	mg/kg	02.29.20 14.43		1
o-Xylene	95-47-6	**0.0182**	0.00200	mg/kg	02.29.20 14.43		1
Total Xylenes	1330-20-7	**0.0718**	0.00200	mg/kg	02.29.20 14.43		1
Total BTEX		**0.0755**	0.00200	mg/kg	02.29.20 14.43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	02.29.20 14.43	
1,4-Difluorobenzene	540-36-3	88	%	70-130	02.29.20 14.43	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-2 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-004	Date Collected:	02.20.20 11.54	Sample Depth:	0.5 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4290**	49.8	mg/kg	02.24.20 14.04		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.8	49.8	mg/kg	02.24.20 16.20	U	1
Diesel Range Organics	C10C28DRO	**681**	49.8	mg/kg	02.24.20 16.20		1
Oil Range Hydrocarbons	PHCG2835	**71.5**	49.8	mg/kg	02.24.20 16.20		1
Total TPH	PHC635	**753**	49.8	mg/kg	02.24.20 16.20		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	02.24.20 16.20	
o-Terphenyl	84-15-1	106	%	70-135	02.24.20 16.20	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-2 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-004	Date Collected:	02.20.20 11.54	Sample Depth:	0.5 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	02.29.20 08.30	Basis:	Wet Weight
Seq Number:	3118121				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 15.03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 15.03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 15.03	U	1
m,p-Xylenes	179601-23-1	**0.0203**	0.00401	mg/kg	02.29.20 15.03		1
o-Xylene	95-47-6	**0.00412**	0.00200	mg/kg	02.29.20 15.03		1
Total Xylenes	1330-20-7	**0.0244**	0.00200	mg/kg	02.29.20 15.03		1
Total BTEX		**0.0244**	0.00200	mg/kg	02.29.20 15.03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	02.29.20 15.03	
1,4-Difluorobenzene	540-36-3	93	%	70-130	02.29.20 15.03	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-3 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-005	Date Collected:	02.20.20 11.43	Sample Depth:	0 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1020**	49.7	mg/kg	02.24.20 14.23		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	02.24.20 16.41	U	1
Diesel Range Organics	C10C28DRO	**614**	49.9	mg/kg	02.24.20 16.41		1
Oil Range Hydrocarbons	PHCG2835	**79.9**	49.9	mg/kg	02.24.20 16.41		1
Total TPH	PHC635	**694**	49.9	mg/kg	02.24.20 16.41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	02.24.20 16.41	
o-Terphenyl	84-15-1	104	%	70-135	02.24.20 16.41	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-3 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-005	Date Collected:	02.20.20 11.43	Sample Depth:	0 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	02.29.20 08.30	Basis:	Wet Weight
Seq Number:	3118121				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 15.23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 15.23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 15.23	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.29.20 15.23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 15.23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 15.23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 15.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	02.29.20 15.23	
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.29.20 15.23	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-3 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-006	Date Collected:	02.20.20 11.47	Sample Depth:	0.5 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**677**	24.9	mg/kg	02.24.20 14.29		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	02.24.20 17.02	U	1
Diesel Range Organics	C10C28DRO	**711**	50.0	mg/kg	02.24.20 17.02		1
Oil Range Hydrocarbons	PHCG2835	**84.0**	50.0	mg/kg	02.24.20 17.02		1
Total TPH	PHC635	**795**	50.0	mg/kg	02.24.20 17.02		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	02.24.20 17.02	
o-Terphenyl	84-15-1	109	%	70-135	02.24.20 17.02	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-3 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-006	Date Collected:	02.20.20 11.47	Sample Depth:	0.5 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	02.29.20 08.30	Basis:	Wet Weight
Seq Number:	3118121				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 15.43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 15.43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 15.43	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.29.20 15.43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 15.43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 15.43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 15.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	02.29.20 15.43	
4-Bromofluorobenzene	460-00-4	102	%	70-130	02.29.20 15.43	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-4 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-007	Date Collected:	02.20.20 11.36	Sample Depth:	0 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**820**	50.0	mg/kg	02.24.20 14.35		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.8	49.8	mg/kg	02.24.20 17.23	U	1
Diesel Range Organics	C10C28DRO	**404**	49.8	mg/kg	02.24.20 17.23		1
Oil Range Hydrocarbons	PHCG2835	**52.5**	49.8	mg/kg	02.24.20 17.23		1
Total TPH	PHC635	**457**	49.8	mg/kg	02.24.20 17.23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	02.24.20 17.23	
o-Terphenyl	84-15-1	100	%	70-135	02.24.20 17.23	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-4 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-007	Date Collected:	02.20.20 11.36	Sample Depth:	0 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	02.29.20 08.30	Basis:	Wet Weight
Seq Number:	3118121				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.29.20 16.03	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.29.20 16.03	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.29.20 16.03	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.29.20 16.03	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.29.20 16.03	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.29.20 16.03	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.29.20 16.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	02.29.20 16.03	
1,4-Difluorobenzene	540-36-3	94	%	70-130	02.29.20 16.03	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-4 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-008	Date Collected:	02.20.20 11.38	Sample Depth:	0.5 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1050**	50.0	mg/kg	02.24.20 14.41		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	02.24.20 17.44	U	1
Diesel Range Organics	C10C28DRO	**597**	50.0	mg/kg	02.24.20 17.44		1
Oil Range Hydrocarbons	PHCG2835	**66.3**	50.0	mg/kg	02.24.20 17.44		1
Total TPH	PHC635	**663**	50.0	mg/kg	02.24.20 17.44		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	02.24.20 17.44	
o-Terphenyl	84-15-1	106	%	70-135	02.24.20 17.44	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-4 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-008	Date Collected:	02.20.20 11.38	Sample Depth:	0.5 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	02.29.20 08.30	Basis:	Wet Weight
Seq Number:	3118121				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.29.20 16.24	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.29.20 16.24	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.29.20 16.24	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.29.20 16.24	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.29.20 16.24	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.29.20 16.24	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.29.20 16.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	02.29.20 16.24	
1,4-Difluorobenzene	540-36-3	95	%	70-130	02.29.20 16.24	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-5 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-009	Date Collected:	02.20.20 11.50	Sample Depth:	0 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**126**	50.3	mg/kg	02.24.20 14.48		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	02.24.20 18.05	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	02.24.20 18.05	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	02.24.20 18.05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.24.20 18.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	02.24.20 18.05	
o-Terphenyl	84-15-1	94	%	70-135	02.24.20 18.05	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-5 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-009	Date Collected:	02.20.20 11.50	Sample Depth:	0 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	02.29.20 08.30	Basis:	Wet Weight
Seq Number:	3118121				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.29.20 16.44	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.29.20 16.44	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.29.20 16.44	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.29.20 16.44	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.29.20 16.44	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.29.20 16.44	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.29.20 16.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	02.29.20 16.44	
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.29.20 16.44	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-5 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-010	Date Collected:	02.20.20 11.53	Sample Depth:	0.5 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**151**	49.5	mg/kg	02.24.20 15.13		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	02.24.20 18.26	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	02.24.20 18.26	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	02.24.20 18.26	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.24.20 18.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	02.24.20 18.26	
o-Terphenyl	84-15-1	120	%	70-135	02.24.20 18.26	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-5 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-010	Date Collected:	02.20.20 11.53	Sample Depth:	0.5 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	02.29.20 08.30	Basis:	Wet Weight
Seq Number:	3118121				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 17.04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 17.04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 17.04	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.29.20 17.04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 17.04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 17.04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 17.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	02.29.20 17.04	
4-Bromofluorobenzene	460-00-4	93	%	70-130	02.29.20 17.04	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-6 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-011	Date Collected:	02.20.20 12.02	Sample Depth:	0 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**916**	25.0	mg/kg	02.24.20 15.19		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	02.24.20 19.08	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	02.24.20 19.08	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	02.24.20 19.08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.24.20 19.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	02.24.20 19.08	
o-Terphenyl	84-15-1	91	%	70-135	02.24.20 19.08	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-6 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-011	Date Collected:	02.20.20 12.02	Sample Depth:	0 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	02.29.20 08.30	Basis:	Wet Weight
Seq Number:	3118121				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.29.20 18.23	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.29.20 18.23	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.29.20 18.23	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.29.20 18.23	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.29.20 18.23	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.29.20 18.23	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.29.20 18.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	02.29.20 18.23	
4-Bromofluorobenzene	460-00-4	82	%	70-130	02.29.20 18.23	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-6 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-012	Date Collected:	02.20.20 12.07	Sample Depth:	0.5 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**657**	49.9	mg/kg	02.24.20 15.38		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.8	49.8	mg/kg	02.24.20 19.29	U	1
Diesel Range Organics	C10C28DRO	<49.8	49.8	mg/kg	02.24.20 19.29	U	1
Oil Range Hydrocarbons	PHCG2835	<49.8	49.8	mg/kg	02.24.20 19.29	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.24.20 19.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	02.24.20 19.29	
o-Terphenyl	84-15-1	94	%	70-135	02.24.20 19.29	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-6 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-012	Date Collected:	02.20.20 12.07	Sample Depth:	0.5 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	02.29.20 08.30	Basis:	Wet Weight
Seq Number:	3118121				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.29.20 18.43	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.29.20 18.43	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.29.20 18.43	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.29.20 18.43	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.29.20 18.43	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.29.20 18.43	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.29.20 18.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.29.20 18.43	
1,4-Difluorobenzene	540-36-3	100	%	70-130	02.29.20 18.43	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-7 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-013	Date Collected:	02.20.20 12.11	Sample Depth:	0 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**504**	50.3	mg/kg	02.24.20 15.44		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	02.24.20 19.50	U	1
Diesel Range Organics	C10C28DRO	**455**	50.0	mg/kg	02.24.20 19.50		1
Oil Range Hydrocarbons	PHCG2835	**62.2**	50.0	mg/kg	02.24.20 19.50		1
Total TPH	PHC635	**517**	50.0	mg/kg	02.24.20 19.50		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	02.24.20 19.50	
o-Terphenyl	84-15-1	106	%	70-135	02.24.20 19.50	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-7 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-013	Date Collected:	02.20.20 12.11	Sample Depth:	0 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.01.20 10.00	Basis:	Wet Weight
Seq Number:	3118135				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.01.20 15.49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.01.20 15.49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.01.20 15.49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.01.20 15.49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.01.20 15.49	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.01.20 15.49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.01.20 15.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	03.01.20 15.49	
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.01.20 15.49	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-7 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-014	Date Collected:	02.20.20 12.13	Sample Depth:	0.5 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**877**	25.3	mg/kg	02.24.20 15.50		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	02.24.20 20.11	U	1
Diesel Range Organics	C10C28DRO	**60.7**	50.0	mg/kg	02.24.20 20.11		1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	02.24.20 20.11	U	1
Total TPH	PHC635	**60.7**	50.0	mg/kg	02.24.20 20.11		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	02.24.20 20.11	
o-Terphenyl	84-15-1	97	%	70-135	02.24.20 20.11	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-7 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-014	Date Collected:	02.20.20 12.13	Sample Depth:	0.5 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.01.20 10.00	Basis:	Wet Weight
Seq Number:	3118135				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.01.20 16.09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.01.20 16.09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.01.20 16.09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.01.20 16.09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.01.20 16.09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.01.20 16.09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.01.20 16.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	70-130	03.01.20 16.09	
1,4-Difluorobenzene	540-36-3	102	%	70-130	03.01.20 16.09	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-8 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-015	Date Collected:	02.20.20 12.06	Sample Depth:	0 - 0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**152**	25.3	mg/kg	02.24.20 15.56		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	02.24.20 20.32	U	1
Diesel Range Organics	C10C28DRO	**103**	49.9	mg/kg	02.24.20 20.32		1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	02.24.20 20.32	U	1
Total TPH	PHC635	**103**	49.9	mg/kg	02.24.20 20.32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	02.24.20 20.32	
o-Terphenyl	84-15-1	95	%	70-135	02.24.20 20.32	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-8 (0-0.5)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-015	Date Collected:	02.20.20 12.06	Sample Depth:	0 - 0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.01.20 10.00	Basis:	Wet Weight
Seq Number:	3118135				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.01.20 16.30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.01.20 16.30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.01.20 16.30	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.01.20 16.30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.01.20 16.30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.01.20 16.30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.01.20 16.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	03.01.20 16.30	
4-Bromofluorobenzene	460-00-4	86	%	70-130	03.01.20 16.30	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-8 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-016	Date Collected:	02.20.20 12.07	Sample Depth:	0.5 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.24.20 12.40	Basis:	Wet Weight
Seq Number:	3117491				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**111**	50.5	mg/kg	02.24.20 16.03		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.24.20 13.00	Basis:	Wet Weight
Seq Number:	3117576				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	02.24.20 20.53	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	02.24.20 20.53	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	02.24.20 20.53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.24.20 20.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	02.24.20 20.53	
o-Terphenyl	84-15-1	92	%	70-135	02.24.20 20.53	

Certificate of Analytical Results 653356

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-8 (0.5-1)**	Matrix:	Soil	Date Received:	02.21.20 15.47
Lab Sample Id:	653356-016	Date Collected:	02.20.20 12.07	Sample Depth:	0.5 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.01.20 10.00	Basis:	Wet Weight
Seq Number:	3118135				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.01.20 16.50	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.01.20 16.50	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.01.20 16.50	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.01.20 16.50	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.01.20 16.50	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.01.20 16.50	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.01.20 16.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	83	%	70-130	03.01.20 16.50	
1,4-Difluorobenzene	540-36-3	102	%	70-130	03.01.20 16.50	

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.

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 653356

Larson and Associates, Inc.

Skeen 2H Pumping Unit

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117491 — Matrix: Solid — Date Prep: 02.24.20
MB Sample Id: 7697309-1-BLK — LCS Sample Id: 7697309-1-BKS — LCSD Sample Id: 7697309-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	251	100	250	100	90-110	0	20	mg/kg	02.24.20 13:14	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117491 — Matrix: Soil — Date Prep: 02.24.20
Parent Sample Id: 653386-006 — MS Sample Id: 653386-006 S — MSD Sample Id: 653386-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	42.9	202	237	96	240	98	90-110	1	20	mg/kg	02.24.20 13:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117491 — Matrix: Soil — Date Prep: 02.24.20
Parent Sample Id: 653390-001 — MS Sample Id: 653390-001 S — MSD Sample Id: 653390-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	267	200	466	100	467	100	90-110	0	20	mg/kg	02.24.20 15:00	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117576 — Matrix: Solid — Date Prep: 02.24.20
MB Sample Id: 7697335-1-BLK — LCS Sample Id: 7697335-1-BKS — LCSD Sample Id: 7697335-1-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	<15.0	1000	879	88	876	88	70-135	0	20	mg/kg	02.24.20 13:54	
Diesel Range Organics	<15.0	1000	967	97	930	93	70-135	4	20	mg/kg	02.24.20 13:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		106		102		70-135	%	02.24.20 13:54
o-Terphenyl	106		109		105		70-135	%	02.24.20 13:54

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117576 — Matrix: Solid — Date Prep: 02.24.20
MB Sample Id: 7697335-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Oil Range Hydrocarbons	<50.0	mg/kg	02.24.20 13:33	

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 653356

Larson and Associates, Inc.

Skeen 2H Pumping Unit

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117576 — Matrix: Soil — Date Prep: 02.24.20
Parent Sample Id: 653356-001 — MS Sample Id: 653356-001 S — MSD Sample Id: 653356-001 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	<15.0	998	880	88	878	88	70-135	0	20	mg/kg	02.24.20 14:56	
Diesel Range Organics	468	998	1470	100	1450	98	70-135	1	20	mg/kg	02.24.20 14:56	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		94		70-135	%	02.24.20 14:56
o-Terphenyl	110		109		70-135	%	02.24.20 14:56

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118121 — Matrix: Solid — Date Prep: 02.29.20
MB Sample Id: 7697783-1-BLK — LCS Sample Id: 7697783-1-BKS — LCSD Sample Id: 7697783-1-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	0.116	116	0.117	117	70-130	1	35	mg/kg	02.29.20 11:43	
Toluene	<0.000456	0.100	0.107	107	0.114	114	70-130	6	35	mg/kg	02.29.20 11:43	
Ethylbenzene	<0.000565	0.100	0.101	101	0.108	108	70-130	7	35	mg/kg	02.29.20 11:43	
m,p-Xylenes	<0.00101	0.200	0.198	99	0.216	108	70-130	9	35	mg/kg	02.29.20 11:43	
o-Xylene	<0.000344	0.100	0.0983	98	0.107	107	70-130	8	35	mg/kg	02.29.20 11:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		100		99		70-130	%	02.29.20 11:43
4-Bromofluorobenzene	86		92		98		70-130	%	02.29.20 11:43

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118135 — Matrix: Solid — Date Prep: 03.01.20
MB Sample Id: 7697798-1-BLK — LCS Sample Id: 7697798-1-BKS — LCSD Sample Id: 7697798-1-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	0.124	124	0.107	107	70-130	15	35	mg/kg	03.01.20 12:50	
Toluene	<0.000456	0.100	0.117	117	0.107	107	70-130	9	35	mg/kg	03.01.20 12:50	
Ethylbenzene	<0.000565	0.100	0.112	112	0.103	103	70-130	8	35	mg/kg	03.01.20 12:50	
m,p-Xylenes	<0.00101	0.200	0.222	111	0.209	105	70-130	6	35	mg/kg	03.01.20 12:50	
o-Xylene	<0.000344	0.100	0.111	111	0.104	104	70-130	7	35	mg/kg	03.01.20 12:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		102		100		70-130	%	03.01.20 12:50
4-Bromofluorobenzene	83		97		100		70-130	%	03.01.20 12:50

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 653356

Larson and Associates, Inc.

Skeen 2H Pumping Unit

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118121 — Matrix: Soil — Date Prep: 02.29.20
Parent Sample Id: 653356-002 — MS Sample Id: 653356-002 S — MSD Sample Id: 653356-002 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	0.100	101	0.109	109	70-130	9	35	mg/kg	02.29.20 12:24	
Toluene	0.000719	0.0992	0.0937	94	0.100	100	70-130	7	35	mg/kg	02.29.20 12:24	
Ethylbenzene	<0.000560	0.0992	0.0806	81	0.0901	90	70-130	11	35	mg/kg	02.29.20 12:24	
m,p-Xylenes	<0.00101	0.198	0.157	79	0.177	89	70-130	12	35	mg/kg	02.29.20 12:24	
o-Xylene	0.000439	0.0992	0.0782	78	0.0876	88	70-130	11	35	mg/kg	02.29.20 12:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		98		70-130	%	02.29.20 12:24
4-Bromofluorobenzene	77		96		70-130	%	02.29.20 12:24

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118135 — Matrix: Soil — Date Prep: 03.01.20
Parent Sample Id: 653393-002 — MS Sample Id: 653393-002 S — MSD Sample Id: 653393-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000387	0.101	0.137	136	0.132	132	70-130	4	35	mg/kg	03.01.20 13:30	X
Toluene	<0.000458	0.101	0.130	129	0.121	121	70-130	7	35	mg/kg	03.01.20 13:30	
Ethylbenzene	<0.000568	0.101	0.120	119	0.111	111	70-130	8	35	mg/kg	03.01.20 13:30	
m,p-Xylenes	<0.00102	0.201	0.229	114	0.212	106	70-130	8	35	mg/kg	03.01.20 13:30	
o-Xylene	<0.000346	0.101	0.116	115	0.108	108	70-130	7	35	mg/kg	03.01.20 13:30	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		103		70-130	%	03.01.20 13:30
4-Bromofluorobenzene	96		101		70-130	%	03.01.20 13:30

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	

Nº 0977

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 2/21/2020 PAGE 1 OF 2

PO#: LAB WORK ORDER#: 653356

PROJECT LOCATION OR NAME: Skeen 2H Pumping Unit

LAI PROJECT #: 20-DD7-03 COLLECTOR: EC/DS

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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 ☐	pH ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-1 (0-0.5')		2/20/20	11:40	S	1				X		X		X	X	X													X	
S-1 (0.5-1')			11:41																										
S-2 (0-0.5')			11:53																										
S-2 (0.5-1')			11:54																										
S-3 (0-0.5')			11:43																										
S-3 (0.5-1')			11:47																										
S-4 (0-0.5')			11:36																										
S-4 (0.5-1')			11:38																										
S-5 (0-0.5')			11:50																										
S-5 (0.5-1')			11:53																										
S-6 (0-0.5')			12:02																										
S-6 (0.5'-1')			12:07																										
S-7 (0-0.5')			12:11																										
S-7 (0.5'-1')			12:13																										
S-8 (0-0.5')			12:06																										
TOTAL 15																													

RELINQUISHED BY:(Signature) Rachel Owen DATE/TIME 2-21-20 3:47 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 ☒ 5 to 7 DAYS
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: -1.4 THERM#: R8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Nº 0978

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 2/21/2020 PAGE 2 OF 2

PO#: LAB WORK ORDER#: 653356

PROJECT LOCATION OR NAME: Skeen 2H Pumping Unit

LAI PROJECT #: 20-0107-03 COLLECTOR: EC/DS

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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 ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-8(0.5-1')		2/2/20	12:07	S	1				X		X			X	X	X													X		

TOTAL 1

RELINQUISHED BY:(Signature) Rachel Owen	DATE/TIME 2-2-20 3:47	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 ☒ 5 to 7 days
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: -1.4 THERM#: BY
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: 02/21/2020 03:47:00 PM

Work Order #: 653356

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

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	-1.4
#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: Alexis Jaime Date: 02/21/2020

Checklist reviewed by: Holly Taylor Date: 03/02/2020

Certificate of Analysis Summary 656204

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H Pumping Unit

Project Id: 20-0107-03
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 03.19.2020 09:49
Report Date: 03.26.2020 13:35
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	656204-001		656204-002		656204-003		656204-004		656204-005		656204-006	
	Field Id:	S-1 (2')		S-1 (3')		S-1 (5')		S-1 (10')		S-7 (2')		S-7 (3')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	03.17.2020 12:55		03.17.2020 12:56		03.17.2020 13:05		03.17.2020 13:06		03.17.2020 13:18		03.17.2020 13:19	
Chloride by EPA 300	***Extracted:***	03.20.2020 11:05		03.23.2020 11:00		03.23.2020 11:00		03.23.2020 11:00		03.20.2020 11:05		03.20.2020 11:15	
	Analyzed:	03.20.2020 13:52		03.23.2020 14:32		03.23.2020 14:38		03.23.2020 14:44		03.20.2020 14:17		03.20.2020 15:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		123	49.7	7.00	4.98	5.88	4.99	29.5	4.97	478	50.5	61.6	49.7
TPH by SW8015 Mod	***Extracted:***	03.20.2020 11:00		03.20.2020 11:00		03.20.2020 11:00		03.20.2020 11:00					
	Analyzed:	03.20.2020 13:04		03.20.2020 14:07		03.20.2020 14:28		03.20.2020 14:49					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9				
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9				
Total TPH		<50.0	50.0	<49.8	49.8	<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

Certificate of Analysis Summary 656204

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H Pumping Unit

Project Id: 20-0107-03
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 03.19.2020 09:49
Report Date: 03.26.2020 13:35
Project Manager: Holly Taylor

Analysis Requested															
	Lab Id:	656204-007		656204-008		656204-009		656204-010		656204-011		656204-012			
	Field Id:	S-7 (5')		S-7 (7.5')		S-9 (0.5')		S-9 (1')		S-10 (0.5')		S-10 (1')			
	Depth:														
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL			
	Sampled:	03.17.2020 13:24		03.17.2020 13:25		03.17.2020 13:23		03.17.2020 12:28		03.17.2020 13:12		03.17.2020 13:16			
BTEX by EPA 8021B	***Extracted:***					03.23.2020 16:00		03.23.2020 16:00		03.23.2020 16:00		03.25.2020 16:00			
	Analyzed:					03.23.2020 22:49		03.23.2020 23:09		03.23.2020 23:30		03.25.2020 20:35			
	Units/RL:					mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene						<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200		
Toluene						<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200		
Ethylbenzene						<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200		
m,p-Xylenes						<0.00397	0.00397	<0.00398	0.00398	<0.00397	0.00397	<0.00401	0.00401		
o-Xylene						<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200		
Total Xylenes						<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200		
Total BTEX						<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200		
Chloride by EPA 300	***Extracted:***	03.20.2020 11:15		03.20.2020 11:15		03.20.2020 11:15		03.20.2020 11:15		03.20.2020 11:15		03.20.2020 11:15			
	Analyzed:	03.20.2020 18:38		03.20.2020 18:44		03.20.2020 18:50		03.20.2020 18:57		03.20.2020 19:03		03.20.2020 19:09			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		<4.95	4.95	<4.95	4.95	<5.03	5.03	<5.05	5.05	26.5	5.05	18.0	5.05		
TPH by SW8015 Mod	***Extracted:***					03.20.2020 11:00		03.20.2020 11:00		03.20.2020 11:00		03.20.2020 11:00			
	Analyzed:					03.20.2020 16:34		03.20.2020 16:55		03.20.2020 17:37		03.20.2020 17:58			
	Units/RL:					mg/kg	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	<49.9	49.9		
Diesel Range Organics (DRO)						<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)						<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9		
Total TPH						<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9		

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Holly Taylor
Project Manager

Certificate of Analysis Summary 656204

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H Pumping Unit

Project Id: 20-0107-03
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 03.19.2020 09:49
Report Date: 03.26.2020 13:35
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	656204-013		656204-014		656204-015		656204-016		656204-017		656204-018	
	Field Id:	S-4 (2')		S-4 (3')		S-4 (5')		S-4 (7.5')		S-6 (2')		S-6 (4')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	03.17.2020 13:44		03.17.2020 13:45		03.17.2020 14:01		03.17.2020 14:02		03.17.2020 14:14		03.17.2020 14:15	
Chloride by EPA 300	***Extracted:***	03.20.2020 11:15		03.20.2020 11:15		03.20.2020 11:15		03.20.2020 11:15		03.20.2020 11:15		03.20.2020 11:15	
	Analyzed:	03.20.2020 16:18		03.20.2020 19:16		03.20.2020 16:50		03.20.2020 19:22		03.20.2020 17:15		03.20.2020 17:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		114	25.1	43.8	4.97	61.3	50.5	40.1	4.96	387	50.0	98.3	50.3
TPH by SW8015 Mod	***Extracted:***	03.20.2020 11:00		03.20.2020 11:00		03.20.2020 11:00		03.20.2020 11:00					
	Analyzed:	03.20.2020 18:19		03.20.2020 18:39		03.20.2020 19:00		03.20.2020 19:21					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0				
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0				
Total TPH		<49.9	49.9	<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 656204

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H Pumping Unit

Project Id: 20-0107-03
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 03.19.2020 09:49
Report Date: 03.26.2020 13:35
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	656204-019		656204-020		656204-021		656204-022		656204-023		656204-024	
	Field Id:	S-6 (5')		S-6 (8')		S-2 (2')		S-2 (3')		S-2 (5')		S-2 (8')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	03.17.2020 14:17		03.17.2020 14:18		03.18.2020 10:02		03.18.2020 10:03		03.18.2020 10:06		03.18.2020 10:07	
Chloride by EPA 300	***Extracted:***	03.20.2020 11:15		03.20.2020 11:15		03.20.2020 11:15		03.20.2020 11:15		03.20.2020 11:15		03.20.2020 11:05	
	Analyzed:	03.20.2020 17:28		03.20.2020 17:34		03.20.2020 17:40		03.20.2020 17:47		03.20.2020 17:53		03.20.2020 14:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		307	49.5	475	49.5	591	49.5	373	50.4	344	49.9	261	49.9
TPH by SW8015 Mod	***Extracted:***					03.20.2020 11:00		03.20.2020 11:00		03.20.2020 11:00		03.20.2020 11:00	
	Analyzed:					03.20.2020 13:04		03.20.2020 14:07		03.20.2020 14:28		03.20.2020 14:49	
	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	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)						<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)						<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Total TPH						<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0

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Holly Taylor
Project Manager

Certificate of Analysis Summary 656204

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H Pumping Unit

Project Id: 20-0107-03
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 03.19.2020 09:49
Report Date: 03.26.2020 13:35
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	656204-025		656204-026		656204-027		656204-028					
	Field Id:	S-3 (2')		S-3 (5')		S-3 (8')		S-3 (10')					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	03.18.2020 10:15		03.18.2020 10:16		03.18.2020 10:20		03.18.2020 10:21					
Chloride by EPA 300	***Extracted:***	03.20.2020 17:00		03.20.2020 17:00		03.20.2020 17:00		03.20.2020 17:00					
	Analyzed:	03.21.2020 01:26		03.21.2020 01:47		03.21.2020 01:54		03.21.2020 02:01					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		323	4.98	95.4	4.98	19.6	5.02	14.6	5.03				
TPH by SW8015 Mod	***Extracted:***	03.20.2020 11:00		03.20.2020 11:00		03.20.2020 11:00		03.20.2020 11:00					
	Analyzed:	03.20.2020 15:10		03.20.2020 15:31		03.20.2020 15:52		03.20.2020 16:13					
	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	<49.8	49.8	<49.8	49.8				
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.8	49.8				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.8	49.8				
Total TPH		<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.8	49.8				

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

Holly Taylor
Project Manager

Analytical Report 656204

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Skeen 2H Pumping Unit

20-0107-03

03.26.2020

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)

03.26.2020

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

Reference: XENCO Report No(s): **656204**
Skeen 2H Pumping Unit
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) 656204. 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. 656204 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 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 (2')	S	03.17.2020 12:55		656204-001
S-1 (3')	S	03.17.2020 12:56		656204-002
S-1 (5')	S	03.17.2020 13:05		656204-003
S-1 (10')	S	03.17.2020 13:06		656204-004
S-7 (2')	S	03.17.2020 13:18		656204-005
S-7 (3')	S	03.17.2020 13:19		656204-006
S-7 (5')	S	03.17.2020 13:24		656204-007
S-7 (7.5')	S	03.17.2020 13:25		656204-008
S-9 (0.5')	S	03.17.2020 13:23		656204-009
S-9 (1')	S	03.17.2020 12:28		656204-010
S-10 (0.5')	S	03.17.2020 13:12		656204-011
S-10 (1')	S	03.17.2020 13:16		656204-012
S-4 (2')	S	03.17.2020 13:44		656204-013
S-4 (3')	S	03.17.2020 13:45		656204-014
S-4 (5')	S	03.17.2020 14:01		656204-015
S-4 (7.5')	S	03.17.2020 14:02		656204-016
S-6 (2')	S	03.17.2020 14:14		656204-017
S-6 (4')	S	03.17.2020 14:15		656204-018
S-6 (5')	S	03.17.2020 14:17		656204-019
S-6 (8')	S	03.17.2020 14:18		656204-020
S-2 (2')	S	03.18.2020 10:02		656204-021
S-2 (3')	S	03.18.2020 10:03		656204-022
S-2 (5')	S	03.18.2020 10:06		656204-023
S-2 (8')	S	03.18.2020 10:07		656204-024
S-3 (2')	S	03.18.2020 10:15		656204-025
S-3 (5')	S	03.18.2020 10:16		656204-026
S-3 (8')	S	03.18.2020 10:20		656204-027
S-3 (10')	S	03.18.2020 10:21		656204-028

CASE NARRATIVE

Client Name: Larson and Associates, Inc.

Project Name: Skeen 2H Pumping Unit

Project ID: *20-0107-03*
Work Order Number(s): *656204*

Report Date: *03.26.2020*
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-3120695 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3120949 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-1 (2')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-001	Date Collected:	03.17.2020 12:55		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:05	Basis:	Wet Weight
Seq Number:	3120518				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**123**	49.7	mg/kg	03.20.2020 13:52		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120516				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.20.2020 13:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.20.2020 13:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.20.2020 13:04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.20.2020 13:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	03.20.2020 13:04	
o-Terphenyl	84-15-1	105	%	70-135	03.20.2020 13:04	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-1 (3')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-002	Date Collected:	03.17.2020 12:56		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	03.23.2020 11:00	Basis:	Wet Weight
Seq Number:	3120611				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.00**	4.98	mg/kg	03.23.2020 14:32		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120516				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.20.2020 14:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.20.2020 14:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.20.2020 14:07	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.20.2020 14:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	03.20.2020 14:07	
o-Terphenyl	84-15-1	93	%	70-135	03.20.2020 14:07	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-1 (5')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-003	Date Collected:	03.17.2020 13:05		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	03.23.2020 11:00	Basis:	Wet Weight
Seq Number:	3120611				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.88**	4.99	mg/kg	03.23.2020 14:38		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120516				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.20.2020 14:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.20.2020 14:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.20.2020 14:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.20.2020 14:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	03.20.2020 14:28	
o-Terphenyl	84-15-1	99	%	70-135	03.20.2020 14:28	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-1 (10')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-004	Date Collected:	03.17.2020 13:06		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	03.23.2020 11:00	Basis:	Wet Weight
Seq Number:	3120611				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.5**	4.97	mg/kg	03.23.2020 14:44		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120516				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.20.2020 14:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.20.2020 14:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.20.2020 14:49	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.20.2020 14:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	03.20.2020 14:49	
o-Terphenyl	84-15-1	103	%	70-135	03.20.2020 14:49	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-7 (2')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-005	Date Collected:	03.17.2020 13:18		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:05	Basis:	Wet Weight
Seq Number:	3120518				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**478**	50.5	mg/kg	03.20.2020 14:17		10

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Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-7 (3')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-006	Date Collected:	03.17.2020 13:19		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**61.6**	49.7	mg/kg	03.20.2020 15:21		10

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Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-7 (5')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-007	Date Collected:	03.17.2020 13:24		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	03.20.2020 18:38	U	1

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Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-7 (7.5')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-008	Date Collected:	03.17.2020 13:25		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	03.20.2020 18:44	U	1

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Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-9 (0.5')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-009	Date Collected:	03.17.2020 13:23		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	03.20.2020 18:50	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120516				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.20.2020 16:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.20.2020 16:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.20.2020 16:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.20.2020 16:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	03.20.2020 16:34	
o-Terphenyl	84-15-1	96	%	70-135	03.20.2020 16:34	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-9 (0.5')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-009	Date Collected:	03.17.2020 13:23		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.23.2020 16:00	Basis:	Wet Weight
Seq Number:	3120695				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.23.2020 22:49	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.23.2020 22:49	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.23.2020 22:49	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.23.2020 22:49	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.23.2020 22:49	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.23.2020 22:49	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.23.2020 22:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	03.23.2020 22:49	
4-Bromofluorobenzene	460-00-4	112	%	70-130	03.23.2020 22:49	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-9 (1')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-010	Date Collected:	03.17.2020 12:28		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.05	5.05	mg/kg	03.20.2020 18:57	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120516				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.20.2020 16:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.20.2020 16:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.20.2020 16:55	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.20.2020 16:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	03.20.2020 16:55	
o-Terphenyl	84-15-1	98	%	70-135	03.20.2020 16:55	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-9 (1')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-010	Date Collected:	03.17.2020 12:28		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.23.2020 16:00	Basis:	Wet Weight
Seq Number:	3120695				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.23.2020 23:09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.23.2020 23:09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.23.2020 23:09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.23.2020 23:09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.23.2020 23:09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.23.2020 23:09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.23.2020 23:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	03.23.2020 23:09	
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.23.2020 23:09	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-10 (0.5')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-011	Date Collected:	03.17.2020 13:12		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**26.5**	5.05	mg/kg	03.20.2020 19:03		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120516				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.20.2020 17:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.20.2020 17:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.20.2020 17:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.20.2020 17:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	03.20.2020 17:37	
o-Terphenyl	84-15-1	97	%	70-135	03.20.2020 17:37	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-10 (0.5')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-011	Date Collected:	03.17.2020 13:12		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.23.2020 16:00	Basis:	Wet Weight
Seq Number:	3120695				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.23.2020 23:30	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.23.2020 23:30	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.23.2020 23:30	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.23.2020 23:30	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.23.2020 23:30	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.23.2020 23:30	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.23.2020 23:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	03.23.2020 23:30	
4-Bromofluorobenzene	460-00-4	111	%	70-130	03.23.2020 23:30	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-10 (1')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-012	Date Collected:	03.17.2020 13:16		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.0**	5.05	mg/kg	03.20.2020 19:09		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120516				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.20.2020 17:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.20.2020 17:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.20.2020 17:58	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.20.2020 17:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	03.20.2020 17:58	
o-Terphenyl	84-15-1	92	%	70-135	03.20.2020 17:58	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-10 (1')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-012	Date Collected:	03.17.2020 13:16		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.25.2020 16:00	Basis:	Wet Weight
Seq Number:	3120949				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.25.2020 20:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.25.2020 20:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.25.2020 20:35	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.25.2020 20:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.25.2020 20:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.25.2020 20:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.25.2020 20:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	03.25.2020 20:35	
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.25.2020 20:35	

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Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-4 (2')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-013	Date Collected:	03.17.2020 13:44		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**114**	25.1	mg/kg	03.20.2020 16:18		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120516				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.20.2020 18:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.20.2020 18:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.20.2020 18:19	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.20.2020 18:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	03.20.2020 18:19	
o-Terphenyl	84-15-1	106	%	70-135	03.20.2020 18:19	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-4 (3')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-014	Date Collected:	03.17.2020 13:45		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**43.8**	4.97	mg/kg	03.20.2020 19:16		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120516				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.20.2020 18:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.20.2020 18:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.20.2020 18:39	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.20.2020 18:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	03.20.2020 18:39	
o-Terphenyl	84-15-1	93	%	70-135	03.20.2020 18:39	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-4 (5')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-015	Date Collected:	03.17.2020 14:01		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**61.3**	50.5	mg/kg	03.20.2020 16:50		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120516				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.20.2020 19:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.20.2020 19:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.20.2020 19:00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.20.2020 19:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	03.20.2020 19:00	
o-Terphenyl	84-15-1	107	%	70-135	03.20.2020 19:00	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-4 (7.5')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-016	Date Collected:	03.17.2020 14:02		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**40.1**	4.96	mg/kg	03.20.2020 19:22		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120516				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.20.2020 19:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.20.2020 19:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.20.2020 19:21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.20.2020 19:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	03.20.2020 19:21	
o-Terphenyl	84-15-1	103	%	70-135	03.20.2020 19:21	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-6 (2')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-017	Date Collected:	03.17.2020 14:14		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**387**	50.0	mg/kg	03.20.2020 17:15		10

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-6 (4')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-018	Date Collected:	03.17.2020 14:15		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**98.3**	50.3	mg/kg	03.20.2020 17:21		10

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-6 (5')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-019	Date Collected:	03.17.2020 14:17		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**307**	49.5	mg/kg	03.20.2020 17:28		10

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-6 (8')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-020	Date Collected:	03.17.2020 14:18		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**475**	49.5	mg/kg	03.20.2020 17:34		10

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-2 (2')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-021	Date Collected:	03.18.2020 10:02		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**591**	49.5	mg/kg	03.20.2020 17:40		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120514				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.20.2020 13:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.20.2020 13:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.20.2020 13:04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.20.2020 13:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-135	03.20.2020 13:04	
o-Terphenyl	84-15-1	83	%	70-135	03.20.2020 13:04	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-2 (3')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-022	Date Collected:	03.18.2020 10:03		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**373**	50.4	mg/kg	03.20.2020 17:47		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120514				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.20.2020 14:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.20.2020 14:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.20.2020 14:07	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.20.2020 14:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	03.20.2020 14:07	
o-Terphenyl	84-15-1	107	%	70-135	03.20.2020 14:07	

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Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-2 (5')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-023	Date Collected:	03.18.2020 10:06		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:15	Basis:	Wet Weight
Seq Number:	3120520				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**344**	49.9	mg/kg	03.20.2020 17:53		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120514				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.20.2020 14:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.20.2020 14:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.20.2020 14:28	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.20.2020 14:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	03.20.2020 14:28	
o-Terphenyl	84-15-1	96	%	70-135	03.20.2020 14:28	

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Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-2 (8')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-024	Date Collected:	03.18.2020 10:07		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.20.2020 11:05	Basis:	Wet Weight
Seq Number:	3120518				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**261**	49.9	mg/kg	03.20.2020 14:24		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120514				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.20.2020 14:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.20.2020 14:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.20.2020 14:49	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.20.2020 14:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	03.20.2020 14:49	
o-Terphenyl	84-15-1	92	%	70-135	03.20.2020 14:49	

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Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-3 (2')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-025	Date Collected:	03.18.2020 10:15		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	03.20.2020 17:00	Basis:	Wet Weight
Seq Number:	3120530				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**323**	4.98	mg/kg	03.21.2020 01:26		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120514				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.20.2020 15:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.20.2020 15:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.20.2020 15:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.20.2020 15:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	03.20.2020 15:10	
o-Terphenyl	84-15-1	97	%	70-135	03.20.2020 15:10	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-3 (5')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-026	Date Collected:	03.18.2020 10:16		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	03.20.2020 17:00	Basis:	Wet Weight
Seq Number:	3120530				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**95.4**	4.98	mg/kg	03.21.2020 01:47		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120514				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.20.2020 15:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.20.2020 15:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.20.2020 15:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.20.2020 15:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	03.20.2020 15:31	
o-Terphenyl	84-15-1	94	%	70-135	03.20.2020 15:31	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-3 (8')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-027	Date Collected:	03.18.2020 10:20		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	03.20.2020 17:00	Basis:	Wet Weight
Seq Number:	3120530				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19.6**	5.02	mg/kg	03.21.2020 01:54		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120514				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.20.2020 15:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.20.2020 15:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.20.2020 15:52	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.20.2020 15:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	03.20.2020 15:52	
o-Terphenyl	84-15-1	100	%	70-135	03.20.2020 15:52	

Certificate of Analytical Results 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

Sample Id:	**S-3 (10')**	Matrix:	Soil	Date Received:	03.19.2020 09:49
Lab Sample Id:	656204-028	Date Collected:	03.18.2020 10:21		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	03.20.2020 17:00	Basis:	Wet Weight
Seq Number:	3120530				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14.6**	5.03	mg/kg	03.21.2020 02:01		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	03.20.2020 11:00	Basis:	Wet Weight
Seq Number:	3120514				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.20.2020 16:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.20.2020 16:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.20.2020 16:13	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.20.2020 16:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	03.20.2020 16:13	
o-Terphenyl	84-15-1	105	%	70-135	03.20.2020 16:13	

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 656204

Larson and Associates, Inc.

Skeen 2H Pumping Unit

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120518 — Matrix: Solid — Date Prep: 03.20.2020
MB Sample Id: 7699379-1-BLK — LCS Sample Id: 7699379-1-BKS — LCSD Sample Id: 7699379-1-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	250	100	249	100	90-110	0	20	mg/kg	03.20.2020 11:20	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120520 — Matrix: Solid — Date Prep: 03.20.2020
MB Sample Id: 7699381-1-BLK — LCS Sample Id: 7699381-1-BKS — LCSD Sample Id: 7699381-1-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	250	100	250	100	90-110	0	20	mg/kg	03.20.2020 14:49	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120530 — Matrix: Solid — Date Prep: 03.20.2020
MB Sample Id: 7699443-1-BLK — LCS Sample Id: 7699443-1-BKS — LCSD Sample Id: 7699443-1-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	258	103	257	103	90-110	0	20	mg/kg	03.20.2020 23:05	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120611 — Matrix: Solid — Date Prep: 03.23.2020
MB Sample Id: 7699487-1-BLK — LCS Sample Id: 7699487-1-BKS — LCSD Sample Id: 7699487-1-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	253	101	255	102	90-110	1	20	mg/kg	03.23.2020 13:19	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120518 — Matrix: Soil — Date Prep: 03.20.2020
Parent Sample Id: 656195-004 — MS Sample Id: 656195-004 S — MSD Sample Id: 656195-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	766	1260	2060	103	2060	103	90-110	0	20	mg/kg	03.20.2020 18:00	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120518 — Matrix: Soil — Date Prep: 03.20.2020
Parent Sample Id: 656199-004 — MS Sample Id: 656199-004 S — MSD Sample Id: 656199-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1770	1250	3090	106	3100	106	90-110	0	20	mg/kg	03.20.2020 18:12	

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 656204

Larson and Associates, Inc.

Skeen 2H Pumping Unit

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120520 — Matrix: Soil — Date Prep: 03.20.2020
Parent Sample Id: 656199-008 — MS Sample Id: 656199-008 S — MSD Sample Id: 656199-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	58.9	249	303	98	305	99	90-110	1	20	mg/kg	03.20.2020 16:37	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120520 — Matrix: Soil — Date Prep: 03.20.2020
Parent Sample Id: 656251-002 — MS Sample Id: 656251-002 S — MSD Sample Id: 656251-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2.96	251	254	100	252	99	90-110	1	20	mg/kg	03.20.2020 15:08	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120530 — Matrix: Soil — Date Prep: 03.20.2020
Parent Sample Id: 656361-019 — MS Sample Id: 656361-019 S — MSD Sample Id: 656361-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	194	250	449	102	435	96	90-110	3	20	mg/kg	03.20.2020 23:26	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120530 — Matrix: Soil — Date Prep: 03.20.2020
Parent Sample Id: 656361-028 — MS Sample Id: 656361-028 S — MSD Sample Id: 656361-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	95.9	248	353	104	325	92	90-110	8	20	mg/kg	03.21.2020 01:05	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120611 — Matrix: Soil — Date Prep: 03.23.2020
Parent Sample Id: 656464-002 — MS Sample Id: 656464-002 S — MSD Sample Id: 656464-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	22.8	249	280	103	280	103	90-110	0	20	mg/kg	03.23.2020 15:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120611 — Matrix: Soil — Date Prep: 03.23.2020
Parent Sample Id: 656464-007 — MS Sample Id: 656464-007 S — MSD Sample Id: 656464-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	57.4	250	312	102	304	99	90-110	3	20	mg/kg	03.23.2020 13:37	

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 656204

Larson and Associates, Inc.

Skeen 2H Pumping Unit

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3120514 — Matrix: Solid — Date Prep: 03.20.2020
MB Sample Id: 7699386-1-BLK — LCS Sample Id: 7699386-1-BKS — LCSD Sample Id: 7699386-1-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	840	84	822	82	70-135	2	20	mg/kg	03.20.2020 12:21	
Diesel Range Organics (DRO)	<50.0	1000	864	86	862	86	70-135	0	20	mg/kg	03.20.2020 12:21	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	77		78		77		70-135	%	03.20.2020 12:21
o-Terphenyl	84		84		83		70-135	%	03.20.2020 12:21

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3120516 — Matrix: Solid — Date Prep: 03.20.2020
MB Sample Id: 7699382-1-BLK — LCS Sample Id: 7699382-1-BKS — LCSD Sample Id: 7699382-1-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	852	85	857	86	70-135	1	20	mg/kg	03.20.2020 12:21	
Diesel Range Organics (DRO)	<50.0	1000	936	94	919	92	70-135	2	20	mg/kg	03.20.2020 12:21	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		89		89		70-135	%	03.20.2020 12:21
o-Terphenyl	101		98		97		70-135	%	03.20.2020 12:21

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3120514 — Matrix: Solid — Date Prep: 03.20.2020
MB Sample Id: 7699386-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.20.2020 12:00	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3120516 — Matrix: Solid — Date Prep: 03.20.2020
MB Sample Id: 7699382-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.20.2020 12:00	

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

Final 1.000

QC Summary 656204

Larson and Associates, Inc.

Skeen 2H Pumping Unit

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3120514 | Matrix: Soil | Date Prep: 03.20.2020
Parent Sample Id: 656204-021 | MS Sample Id: 656204-021 S | MSD Sample Id: 656204-021 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	839	84	878	88	70-135	5	20	mg/kg	03.20.2020 13:25	
Diesel Range Organics (DRO)	<49.9	997	890	89	953	95	70-135	7	20	mg/kg	03.20.2020 13:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	85		88		70-135	%	03.20.2020 13:25
o-Terphenyl	90		96		70-135	%	03.20.2020 13:25

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3120516 | Matrix: Soil | Date Prep: 03.20.2020
Parent Sample Id: 656204-001 | MS Sample Id: 656204-001 S | MSD Sample Id: 656204-001 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	886	89	895	90	70-135	1	20	mg/kg	03.20.2020 13:25	
Diesel Range Organics (DRO)	<49.9	998	965	97	974	98	70-135	1	20	mg/kg	03.20.2020 13:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		98		70-135	%	03.20.2020 13:25
o-Terphenyl	103		104		70-135	%	03.20.2020 13:25

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3120695 | Matrix: Solid | Date Prep: 03.23.2020
MB Sample Id: 7699582-1-BLK | LCS Sample Id: 7699582-1-BKS | LCSD Sample Id: 7699582-1-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	0.0976	98	0.0896	90	70-130	9	35	mg/kg	03.23.2020 18:25	
Toluene	<0.00200	0.100	0.0978	98	0.0896	90	70-130	9	35	mg/kg	03.23.2020 18:25	
Ethylbenzene	<0.00200	0.100	0.0997	100	0.0912	91	70-130	9	35	mg/kg	03.23.2020 18:25	
m,p-Xylenes	<0.00400	0.200	0.198	99	0.181	91	70-130	9	35	mg/kg	03.23.2020 18:25	
o-Xylene	<0.00200	0.100	0.100	100	0.0921	92	70-130	8	35	mg/kg	03.23.2020 18:25	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		111		108		70-130	%	03.23.2020 18:25
4-Bromofluorobenzene	102		107		105		70-130	%	03.23.2020 18:25

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 656204

Larson and Associates, Inc.

Skeen 2H Pumping Unit

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3120949 — Matrix: Solid — Date Prep: 03.25.2020
MB Sample Id: 7699754-1-BLK — LCS Sample Id: 7699754-1-BKS — LCSD Sample Id: 7699754-1-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	0.101	101	0.0942	94	70-130	7	35	mg/kg	03.25.2020 18:13	
Toluene	<0.00200	0.100	0.0989	99	0.0924	92	70-130	7	35	mg/kg	03.25.2020 18:13	
Ethylbenzene	<0.00200	0.100	0.0985	99	0.0920	92	70-130	7	35	mg/kg	03.25.2020 18:13	
m,p-Xylenes	<0.00400	0.200	0.195	98	0.182	91	70-130	7	35	mg/kg	03.25.2020 18:13	
o-Xylene	<0.00200	0.100	0.0977	98	0.0916	92	70-130	6	35	mg/kg	03.25.2020 18:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		111		108		70-130	%	03.25.2020 18:13
4-Bromofluorobenzene	93		98		95		70-130	%	03.25.2020 18:13

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3120695 — Matrix: Soil — Date Prep: 03.23.2020
Parent Sample Id: 656199-003 — MS Sample Id: 656199-003 S — MSD Sample Id: 656199-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.0868	87	0.0880	87	70-130	1	35	mg/kg	03.23.2020 19:06	
Toluene	<0.00200	0.100	0.0859	86	0.0874	87	70-130	2	35	mg/kg	03.23.2020 19:06	
Ethylbenzene	<0.00200	0.100	0.0854	85	0.0884	88	70-130	3	35	mg/kg	03.23.2020 19:06	
m,p-Xylenes	<0.00401	0.200	0.169	85	0.175	87	70-130	3	35	mg/kg	03.23.2020 19:06	
o-Xylene	<0.00200	0.100	0.0861	86	0.0892	88	70-130	4	35	mg/kg	03.23.2020 19:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		109		70-130	%	03.23.2020 19:06
4-Bromofluorobenzene	106		107		70-130	%	03.23.2020 19:06

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3120949 — Matrix: Soil — Date Prep: 03.25.2020
Parent Sample Id: 656204-012 — MS Sample Id: 656204-012 S — MSD Sample Id: 656204-012 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	0.0911	91	0.0873	88	70-130	4	35	mg/kg	03.25.2020 18:54	
Toluene	<0.00200	0.100	0.0889	89	0.0849	85	70-130	5	35	mg/kg	03.25.2020 18:54	
Ethylbenzene	<0.00200	0.100	0.0868	87	0.0827	83	70-130	5	35	mg/kg	03.25.2020 18:54	
m,p-Xylenes	<0.00401	0.200	0.172	86	0.164	82	70-130	5	35	mg/kg	03.25.2020 18:54	
o-Xylene	<0.00200	0.100	0.0854	85	0.0818	82	70-130	4	35	mg/kg	03.25.2020 18:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		108		70-130	%	03.25.2020 18:54
4-Bromofluorobenzene	97		96		70-130	%	03.25.2020 18:54

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

№ 1124

E520204

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 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Skeen 2H pumping unit

LAI PROJECT #: 20-0107-03 COLLECTOR: DS/EC

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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
S-1 (2')		3/17/20	1255	S	1				X					X	X	X													X		
S-1 (3')			1256																												
S-1 (5')			1305																												
S-1 (10')			1306																												
S-7 (2')			1318																												
S-7 (3')			1319																												
S-7 (5')			1324																												
S-7 (7.5')			1325																												
S-9 (0.5')			1323								X			X	X	X															
S-9 (1')			1328																												
S-10 (0.5')			1312																												
S-10 (1')			1316																												
S-4 (2')			1344																												
S-4 (3')			1345																												
S-4 (5')			1401																												
TOTAL					15																										

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Rachel Owen	3-19-20 19:49	
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: 0.6/0.3 THERM#: 09
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Nº 1125

05/16/24

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 2 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Skeen 2H pumping unit

LAI PROJECT #: 20-0107-03 COLLECTOR: DS/EC

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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
S-4 (7.5')		3/17/20	1402	S	1				X		X X X	
S-6 (2')			1414									
S-6 (3')			1415									
S-6 (5')			1417									
S-6 (8')			1418									
S-2 (2')		3/18/20	1002								X X X	
S-2 (3')			1003									
S-2 (5')			1006									
S-2 (8')			1007									
S-3 (2')			1015									
S-3 (5')			1016									
S-3 (8')			1020									
S-3 (10')			1021									

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 ☐

TOTAL 13

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Rachel Owen	3-19-20 / 9:49	
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: [redacted] Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP: 0.6/0.3 THERM#: 129
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 09.49.00 AM

Work Order #: 656204

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)?	.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: 03.19.2020

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 03.24.2020

Holly Taylor

Certificate of Analysis Summary 661563

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H,Chevron

Project Id: 20-0107-03
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 05.14.2020 10:44
Report Date: 05.19.2020 14:02
Project Manager: Holly Taylor

Analysis Requested								
	Lab Id:	661563-001		661563-002				
	Field Id:	SP-11 (0-0.5')		SP-11 (0.5-1')				
	Depth:							
	Matrix:	SOIL		SOIL				
	Sampled:	05.13.2020 11:40		05.13.2020 11:43				
BTEX by EPA 8021B	***Extracted:***	05.18.2020 17:00		05.18.2020 17:00				
	Analyzed:	05.18.2020 21:14		05.18.2020 21:34				
	Units/RL:	mg/kg	RL	mg/kg	RL			
Benzene		<0.00202	0.00202	<0.00200	0.00200			
Toluene		<0.00202	0.00202	<0.00200	0.00200			
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200			
m,p-Xylenes		<0.00403	0.00403	<0.00399	0.00399			
o-Xylene		<0.00202	0.00202	<0.00200	0.00200			
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200			
Total BTEX		<0.00202	0.00202	<0.00200	0.00200			
Chloride by EPA 300	***Extracted:***	05.14.2020 15:05		05.14.2020 15:05				
	Analyzed:	05.15.2020 02:19		05.15.2020 02:25				
	Units/RL:	mg/kg	RL	mg/kg	RL			
Chloride		102	50.0	104	50.2			
TPH by SW8015 Mod	***Extracted:***	05.14.2020 17:00		05.14.2020 17:00				
	Analyzed:	05.15.2020 09:31		05.15.2020 10:28				
	Units/RL:	mg/kg	RL	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0			
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0			
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0			
Total TPH		<50.0	50.0	<50.0	50.0			

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

Holly Taylor
Project Manager

Analytical Report 661563

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Skeen 2H,Chevron

20-0107-03

05.19.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
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)

05.19.2020

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

Reference: XENCO Report No(s): **661563**
Skeen 2H,Chevron
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) 661563. 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. 661563 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 661563

Larson and Associates, Inc., Midland, TX

Skeen 2H,Chevron

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-11 (0-0.5')	S	05.13.2020 11:40		661563-001
SP-11 (0.5-1')	S	05.13.2020 11:43		661563-002

CASE NARRATIVE

Client Name: Larson and Associates, Inc.

Project Name: Skeen 2H,Chevron

Project ID: *20-0107-03*
Work Order Number(s): *661563*

Report Date: *05.19.2020*
Date Received: *05.14.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 661563

Larson and Associates, Inc., Midland, TX

Skeen 2H,Chevron

Sample Id: **SP-11 (0-0.5')** Matrix: Soil Date Received:05.14.2020 10:44

Lab Sample Id: 661563-001 Date Collected: 05.13.2020 11:40

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 05.14.2020 15:05 Basis: Wet Weight

Seq Number: 3126007

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**102**	50.0	mg/kg	05.15.2020 02:19		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 05.14.2020 17:00 Basis: Wet Weight

Seq Number: 3126160

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.15.2020 09:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.15.2020 09:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.15.2020 09:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.15.2020 09:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	05.15.2020 09:31	
o-Terphenyl	84-15-1	105	%	70-130	05.15.2020 09:31	

Certificate of Analytical Results 661563

Larson and Associates, Inc., Midland, TX

Skeen 2H,Chevron

Sample Id:	**SP-11 (0-0.5')**	Matrix:	Soil	Date Received:	05.14.2020 10:44
Lab Sample Id:	661563-001	Date Collected:	05.13.2020 11:40		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	05.18.2020 17:00	Basis:	Wet Weight
Seq Number:	3126326				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.18.2020 21:14	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.18.2020 21:14	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.18.2020 21:14	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.18.2020 21:14	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.18.2020 21:14	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.18.2020 21:14	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.18.2020 21:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	05.18.2020 21:14	
1,4-Difluorobenzene	540-36-3	115	%	70-130	05.18.2020 21:14	

Certificate of Analytical Results 661563

Larson and Associates, Inc., Midland, TX

Skeen 2H,Chevron

Sample Id:	**SP-11 (0.5-1')**	Matrix:	Soil	Date Received:	05.14.2020 10:44
Lab Sample Id:	661563-002	Date Collected:	05.13.2020 11:43		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	05.14.2020 15:05	Basis:	Wet Weight
Seq Number:	3126007				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**104**	50.2	mg/kg	05.15.2020 02:25		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	05.14.2020 17:00	Basis:	Wet Weight
Seq Number:	3126160				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.15.2020 10:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.15.2020 10:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.15.2020 10:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.15.2020 10:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	05.15.2020 10:28	
o-Terphenyl	84-15-1	102	%	70-130	05.15.2020 10:28	

Certificate of Analytical Results 661563

Larson and Associates, Inc., Midland, TX

Skeen 2H,Chevron

Sample Id:	**SP-11 (0.5-1')**	Matrix:	Soil	Date Received:	05.14.2020 10:44
Lab Sample Id:	661563-002	Date Collected:	05.13.2020 11:43		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	05.18.2020 17:00	Basis:	Wet Weight
Seq Number:	3126326				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.18.2020 21:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.18.2020 21:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.18.2020 21:34	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.18.2020 21:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.18.2020 21:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.18.2020 21:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.18.2020 21:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	05.18.2020 21:34	
1,4-Difluorobenzene	540-36-3	114	%	70-130	05.18.2020 21:34	

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 661563

Larson and Associates, Inc.

Skeen 2H,Chevron

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3126007 — Matrix: Solid — Date Prep: 05.14.2020
MB Sample Id: 7703342-1-BLK — LCS Sample Id: 7703342-1-BKS — LCSD Sample Id: 7703342-1-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	236	94	90-110	3	20	mg/kg	05.14.2020 23:35	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3126007 — Matrix: Soil — Date Prep: 05.14.2020
Parent Sample Id: 661555-004 — MS Sample Id: 661555-004 S — MSD Sample Id: 661555-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	58.4	252	298	95	292	93	90-110	2	20	mg/kg	05.14.2020 23:52	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3126007 — Matrix: Soil — Date Prep: 05.14.2020
Parent Sample Id: 661555-011 — MS Sample Id: 661555-011 S — MSD Sample Id: 661555-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	174	249	425	101	426	101	90-110	0	20	mg/kg	05.15.2020 01:16	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126160 — Matrix: Solid — Date Prep: 05.14.2020
MB Sample Id: 7703367-1-BLK — LCS Sample Id: 7703367-1-BKS — LCSD Sample Id: 7703367-1-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	928	93	70-130	1	20	mg/kg	05.15.2020 08:53	
Diesel Range Organics (DRO)	<50.0	1000	897	90	897	90	70-130	0	20	mg/kg	05.15.2020 08:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		117		117		70-130	%	05.15.2020 08:53
o-Terphenyl	107		111		112		70-130	%	05.15.2020 08:53

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126160 — Matrix: Solid — Date Prep: 05.14.2020
MB Sample Id: 7703367-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.15.2020 08:34	

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 661563

Larson and Associates, Inc.

Skeen 2H,Chevron

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126160 — Matrix: Soil — Date Prep: 05.14.2020
Parent Sample Id: 661563-001 — MS Sample Id: 661563-001 S — MSD Sample Id: 661563-001 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)	<49.8	996	923	93	933	94	70-130	1	20	mg/kg	05.15.2020 09:50	
Diesel Range Organics (DRO)	<49.8	996	903	91	913	92	70-130	1	20	mg/kg	05.15.2020 09:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		119		70-130	%	05.15.2020 09:50
o-Terphenyl	108		108		70-130	%	05.15.2020 09:50

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3126326 — Matrix: Solid — Date Prep: 05.18.2020
MB Sample Id: 7703598-1-BLK — LCS Sample Id: 7703598-1-BKS — LCSD Sample Id: 7703598-1-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	0.102	102	0.0982	98	70-130	4	35	mg/kg	05.18.2020 17:15	
Toluene	<0.00200	0.100	0.110	110	0.104	104	70-130	6	35	mg/kg	05.18.2020 17:15	
Ethylbenzene	<0.00200	0.100	0.105	105	0.0985	99	70-130	6	35	mg/kg	05.18.2020 17:15	
m,p-Xylenes	<0.00400	0.200	0.210	105	0.197	99	70-130	6	35	mg/kg	05.18.2020 17:15	
o-Xylene	<0.00200	0.100	0.101	101	0.0943	94	70-130	7	35	mg/kg	05.18.2020 17:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		104		104		70-130	%	05.18.2020 17:15
4-Bromofluorobenzene	90		101		100		70-130	%	05.18.2020 17:15

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3126326 — Matrix: Soil — Date Prep: 05.18.2020
Parent Sample Id: 661896-001 — MS Sample Id: 661896-001 S — MSD Sample Id: 661896-001 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	0.0996	0.0910	91	0.100	100	70-130	9	35	mg/kg	05.18.2020 18:08	
Toluene	<0.00199	0.0996	0.0856	86	0.0978	98	70-130	13	35	mg/kg	05.18.2020 18:08	
Ethylbenzene	<0.00199	0.0996	0.0700	70	0.0860	86	70-130	21	35	mg/kg	05.18.2020 18:08	
m,p-Xylenes	<0.00398	0.199	0.141	71	0.173	87	70-130	20	35	mg/kg	05.18.2020 18:08	
o-Xylene	<0.00199	0.0996	0.0668	67	0.0828	83	70-130	21	35	mg/kg	05.18.2020 18:08	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		108		70-130	%	05.18.2020 18:08
4-Bromofluorobenzene	99		94		70-130	%	05.18.2020 18:08

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

№1152

Lab1563

CHAIN-OF-CUSTODY

LArson & Associates, Inc.
Environmental Consultants

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

Data Reported to:

DATE: 5/14/20 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Skeen 2H, Chevron

LAI PROJECT #: 20-0107-03 COLLECTOR: RO

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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 ☐ M300	FIELD NOTES
SP-11 (0-0.5')		5/13/20	11:40	S	1				X		X		X	X	X														X	
SP-11 (0.5-1')		5/13/20	11:43	S	1				X		X		X	X	X														X	

TOTAL 2

RELINQUISHED BY:(Signature) Rachel Owen DATE/TIME 5-14-20/ 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: 3.4/3.3 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: 05.14.2020 10.44.00 AM

Work Order #: 661563

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)?	3.3	
#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**	BTEX was in bulk container
#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: 05.14.2020
Brianna Teel

Checklist reviewed by: Holly Taylor Date: 05.18.2020
Holly Taylor

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Certificate of Analysis Summary 678851

Larson and Associates, Inc., Midland, TX

Project Name: Hayhurst Soil Pile- Skeen Back Fill

Project Id: 20-0107-03
Contact: Mark Larson
Project Location:

Date Received in Lab: Mon 11.23.2020 16:36
Report Date: 11.30.2020 14:06
Project Manager: Holly Taylor

Analysis Requested							
	Lab Id:	678851-001					
	Field Id:	C-1					
	Depth:						
	Matrix:	SOIL					
	Sampled:	11.23.2020 09:30					
BTEX by EPA 8021B	***Extracted:***	11.24.2020 15:36					
	Analyzed:	11.24.2020 22:35					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00399 0.00399					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.002000 0.002000					
Total BTEX		<0.002000 0.002000					
Chloride by EPA 300	***Extracted:***	11.24.2020 14:00					
	Analyzed:	11.24.2020 18:54					
	Units/RL:	mg/kg RL					
Chloride		<49.9 49.9					
TPH by SW8015 Mod	***Extracted:***	11.24.2020 12:30					
	Analyzed:	11.24.2020 14:46					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1					
Diesel Range Organics (DRO)		<50.1 50.1					
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1					
Total TPH		<50.10 50.10					

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 678851

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Hayhurst Soil Pile- Skeen Back Fill

20-0107-03

11.30.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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 (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
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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11.30.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **678851**
Hayhurst Soil Pile- Skeen Back Fill
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) 678851. 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. 678851 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 678851

Larson and Associates, Inc., Midland, TX

Hayhurst Soil Pile- Skeen Back Fill

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
C-1	S	11.23.2020 09:30		678851-001

CASE NARRATIVE

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Client Name: Larson and Associates, Inc.

Project Name: Hayhurst Soil Pile- Skeen Back Fill

Project ID: *20-0107-03*
Work Order Number(s): *678851*

Report Date: *11.30.2020*
Date Received: *11.23.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 678851

Larson and Associates, Inc., Midland, TX

Hayhurst Soil Pile- Skeen Back Fill

Sample Id: **C-1** Matrix: Soil Date Received:11.23.2020 16:36

Lab Sample Id: 678851-001 Date Collected: 11.23.2020 09:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 11.24.2020 14:00 % Moisture:

Seq Number: 3143277 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<49.9	49.9	mg/kg	11.24.2020 18:54	U	5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.24.2020 12:30 % Moisture:

Seq Number: 3143273 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.24.2020 14:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.24.2020 14:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.24.2020 14:46	U	1
Total TPH	PHC635	<50.10	50.10	mg/kg	11.24.2020 14:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	11.24.2020 14:46	
o-Terphenyl	84-15-1	121	%	70-135	11.24.2020 14:46	

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Certificate of Analytical Results 678851

Larson and Associates, Inc., Midland, TX

Hayhurst Soil Pile- Skeen Back Fill

Sample Id:	**C-1**	Matrix:	Soil	Date Received:	11.23.2020 16:36
Lab Sample Id:	678851-001	Date Collected:	11.23.2020 09:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.24.2020 15:36	% Moisture:	
Seq Number:	3143258			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.24.2020 22:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.24.2020 22:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.24.2020 22:35	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.24.2020 22:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.24.2020 22:35	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.24.2020 22:35	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.24.2020 22:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	122	%	70-130	11.24.2020 22:35	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.24.2020 22:35	

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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 678851

Larson and Associates, Inc.

Hayhurst Soil Pile- Skeen Back Fill

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143277 — Matrix: Solid — Date Prep: 11.24.2020
MB Sample Id: 7715945-1-BLK — LCS Sample Id: 7715945-1-BKS — LCSD Sample Id: 7715945-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	240	96	238	95	90-110	1	20	mg/kg	11.24.2020 15:42	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143277 — Matrix: Soil — Date Prep: 11.24.2020
Parent Sample Id: 678846-001 — MS Sample Id: 678846-001 S — MSD Sample Id: 678846-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2690	200	2870	90	2890	101	90-110	1	20	mg/kg	11.24.2020 16:45	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143277 — Matrix: Soil — Date Prep: 11.24.2020
Parent Sample Id: 678848-005 — MS Sample Id: 678848-005 S — MSD Sample Id: 678848-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.8	201	219	97	220	97	90-110	0	20	mg/kg	11.24.2020 17:57	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143273 — Matrix: Solid — Date Prep: 11.24.2020
MB Sample Id: 7715953-1-BLK — LCS Sample Id: 7715953-1-BKS — LCSD Sample Id: 7715953-1-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	1030	103	1010	101	70-135	2	35	mg/kg	11.24.2020 14:06	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	1140	114	70-135	9	35	mg/kg	11.24.2020 14:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		107		114		70-135	%	11.24.2020 14:06
o-Terphenyl	111		105		100		70-135	%	11.24.2020 14:06

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143273 — Matrix: Solid — Date Prep: 11.24.2020
MB Sample Id: 7715953-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.24.2020 13:46	

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 678851

Larson and Associates, Inc.

Hayhurst Soil Pile- Skeen Back Fill

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3143273 Matrix: Soil Date Prep: 11.24.2020
Parent Sample Id: 678851-001 MS Sample Id: 678851-001 S MSD Sample Id: 678851-001 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)	<49.8	995	1150	116	1010	101	70-135	13	35	mg/kg	11.24.2020 15:06	
Diesel Range Organics (DRO)	<49.8	995	1090	110	1130	113	70-135	4	35	mg/kg	11.24.2020 15:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		115		70-135	%	11.24.2020 15:06
o-Terphenyl	107		104		70-135	%	11.24.2020 15:06

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3143258 Matrix: Solid Date Prep: 11.24.2020
MB Sample Id: 7715911-1-BLK LCS Sample Id: 7715911-1-BKS LCSD Sample Id: 7715911-1-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	0.107	107	0.104	104	70-130	3	35	mg/kg	11.24.2020 10:40	
Toluene	<0.00200	0.100	0.0982	98	0.0974	97	70-130	1	35	mg/kg	11.24.2020 10:40	
Ethylbenzene	<0.00200	0.100	0.101	101	0.101	101	71-129	0	35	mg/kg	11.24.2020 10:40	
m,p-Xylenes	<0.00400	0.200	0.208	104	0.205	103	70-135	1	35	mg/kg	11.24.2020 10:40	
o-Xylene	<0.00200	0.100	0.102	102	0.101	101	71-133	1	35	mg/kg	11.24.2020 10:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		102		100		70-130	%	11.24.2020 10:40
4-Bromofluorobenzene	121		110		108		70-130	%	11.24.2020 10:40

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3143258 Matrix: Soil Date Prep: 11.24.2020
Parent Sample Id: 678846-001 MS Sample Id: 678846-001 S MSD Sample Id: 678846-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.107	107	0.0881	88	70-130	19	35	mg/kg	11.24.2020 13:34	
Toluene	<0.00200	0.100	0.0960	96	0.0781	78	70-130	21	35	mg/kg	11.24.2020 13:34	
Ethylbenzene	<0.00200	0.100	0.0934	93	0.0728	73	71-129	25	35	mg/kg	11.24.2020 13:34	
m,p-Xylenes	<0.00401	0.200	0.192	96	0.144	72	70-135	29	35	mg/kg	11.24.2020 13:34	
o-Xylene	<0.00200	0.100	0.0928	93	0.0711	71	71-133	26	35	mg/kg	11.24.2020 13:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		101		70-130	%	11.24.2020 13:34
4-Bromofluorobenzene	105		112		70-130	%	11.24.2020 13:34

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

678851 №1426

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

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

DATE: 11/23/20 PAGE 1 OF 1
PO#: LAB WORK ORDER#:
PROJECT LOCATION OR NAME: Hayhurst Soil Pile - Skeen Back Fill
LAI PROJECT #: 20-0107-03 COLLECTOR: TJ

Data Reported to:

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 ☐; CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 / NaOH	ICE	UNPRESSERVED	BTEX	TRPH/TPH	GASOLINE MOD 8015	DIESEL MOD 8015	OIL MOD 8015	CHLORIDE	FIELD NOTES
C-1		11/23/20	0930	S	1				X		X		X	X	X	X	

TOTAL 1

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Trent Jackson	11/23/20 1636	Cloe Crifton 11-23-20 1636

LABORATORY: Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP: 1.6/1.4 THERM#: T-NM-007
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: 11.23.2020 04.36.00 PM

Work Order #: 678851

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

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.4	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#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**	Samples received in bulk containers.
#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)?	**No**	
#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: Cloe Clifton Date: 11.23.2020

Checklist reviewed by: Holly Taylor Date: 11.23.2020

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Certificate of Analysis Summary 678962

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H

Project Id: 20-0107-03
Contact: Mark Larson
Project Location:

Date Received in Lab: Tue 11.24.2020 15:31
Report Date: 12.18.2020 14:55
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	678962-001		678962-002		678962-003		678962-004		678962-005		678962-006	
	Field Id:	SW-N		SW-E		SW-S		SW-W		C-1		C-2	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.24.2020 10:40		11.24.2020 10:42		11.24.2020 10:44		11.24.2020 10:46		11.24.2020 10:48		11.24.2020 10:50	
BTEX by EPA 8021B	***Extracted:***	12.02.2020 08:00		12.02.2020 08:00		12.02.2020 08:00		12.02.2020 08:00		12.02.2020 08:00		12.02.2020 08:00	
	Analyzed:	12.02.2020 13:35		12.02.2020 13:55		12.02.2020 14:16		12.02.2020 14:36		12.02.2020 14:57		12.02.2020 15:18	
	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	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.002000	0.002000	<0.002000	0.002000	<0.002000	0.002000	<0.002000	0.002000	<0.002000	0.002000	<0.002000	0.002000
Total BTEX		<0.002000	0.002000	<0.002000	0.002000	<0.002000	0.002000	<0.002000	0.002000	<0.002000	0.002000	<0.002000	0.002000
Chloride by EPA 300	***Extracted:***	11.25.2020 09:45		11.25.2020 09:45		11.30.2020 15:35		11.25.2020 09:45		11.25.2020 09:45		11.25.2020 09:45	
	Analyzed:	11.25.2020 12:10		11.25.2020 12:32		12.01.2020 09:25		11.25.2020 13:02		11.25.2020 13:09		11.25.2020 13:16	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		116 X	50.0	289	49.6	22.1	4.95	253	50.2	180	49.7	184	49.6
TPH by SW8015 Mod	***Extracted:***	12.01.2020 17:00		12.01.2020 17:00		12.01.2020 17:00		12.01.2020 17:00		12.01.2020 17:00		12.01.2020 17:00	
	Analyzed:	12.02.2020 01:57		12.02.2020 02:55		12.02.2020 03:14		12.02.2020 03:33		12.02.2020 03:52		12.02.2020 04:12	
	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	<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	61.9	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9
Total TPH		<50.00	50.00	61.90	49.80	<50.00	50.00	<50.00	50.00	<50.00	50.00	<49.90	49.90

BRL - Below Reporting Limit

Holly Taylor

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

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Certificate of Analysis Summary 678962

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H

Project Id: 20-0107-03
Contact: Mark Larson
Project Location:

Date Received in Lab: Tue 11.24.2020 15:31
Report Date: 12.18.2020 14:55
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	678962-007		678962-008		678962-009		678962-010					
	Field Id:	C-3		C-4		C-5		C-6					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	11.24.2020 10:52		11.24.2020 10:54		11.24.2020 10:56		11.24.2020 10:58					
BTEX by EPA 8021B	***Extracted:***	12.02.2020 08:00		12.02.2020 08:00		12.01.2020 08:00		12.01.2020 08:00					
	Analyzed:	12.02.2020 15:48		12.02.2020 16:08		12.01.2020 13:40		12.01.2020 14:01					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
m,p-Xylenes		<0.00400	0.00400	<0.00400	0.00400	<0.00399	0.00399	<0.00398	0.00398				
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
Total Xylenes		<0.002000	0.002000	<0.002000	0.002000	<0.002000	0.002000	<0.001990	0.001990				
Total BTEX		<0.002000	0.002000	<0.002000	0.002000	<0.002000	0.002000	<0.001990	0.001990				
Chloride by EPA 300	***Extracted:***	11.25.2020 09:45		11.25.2020 09:45		11.25.2020 11:15		11.25.2020 11:15					
	Analyzed:	11.25.2020 13:24		11.25.2020 13:31		11.25.2020 16:33		11.25.2020 16:39					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		359	50.0	128	49.5	1300	50.3	216	50.1				
TPH by SW8015 Mod	***Extracted:***	12.01.2020 17:00		12.01.2020 17:00		12.01.2020 17:00		12.01.2020 17:00					
	Analyzed:	12.02.2020 04:31		12.02.2020 04:50		12.02.2020 05:09		12.02.2020 05:28					
	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	<49.9	49.9	<50.0	50.0				
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	216	49.9	<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0				
Total TPH		<50.00	50.00	<49.90	49.90	216.0	49.90	<50.00	50.00				

BRL - Below Reporting Limit

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

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Analytical Report 678962

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Skeen 2H

20-0107-03

12.18.2020

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 (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
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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12.18.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **678962**
Skeen 2H
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) 678962. 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. 678962 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 678962

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW-N	S	11.24.2020 10:40		678962-001
SW-E	S	11.24.2020 10:42		678962-002
SW-S	S	11.24.2020 10:44		678962-003
SW-W	S	11.24.2020 10:46		678962-004
C-1	S	11.24.2020 10:48		678962-005
C-2	S	11.24.2020 10:50		678962-006
C-3	S	11.24.2020 10:52		678962-007
C-4	S	11.24.2020 10:54		678962-008
C-5	S	11.24.2020 10:56		678962-009
C-6	S	11.24.2020 10:58		678962-010

CASE NARRATIVE

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Client Name: Larson and Associates, Inc.

Project Name: Skeen 2H

Project ID: *20-0107-03*
Work Order Number(s): *678962*

Report Date: *12.18.2020*
Date Received: *11.24.2020*

Sample receipt non conformances and comments:

12/18/2020 1.001 Revised to change sample IDs for 005-010 per Robert Nelson (email). HT

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3143457 Chloride by EPA 300

Lab Sample ID 678962-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 678962-001, -002, -004, -005, -006, -007, -008.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3143719 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 678962-004,678962-002.

Batch: LBA-3143802 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected;

Samples affected are: 678962-001.

Lab Sample ID 678962-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 678962-001, -002, -003, -004, -005, -006, -007, -008.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 678962

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **SW-N** Matrix: Soil Date Received:11.24.2020 15:31

Lab Sample Id: 678962-001 Date Collected: 11.24.2020 10:40

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.25.2020 09:45 % Moisture:

Seq Number: 3143457 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**116**	50.0	mg/kg	11.25.2020 12:10	X	10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:

Seq Number: 3143719 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.02.2020 01:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.02.2020 01:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.02.2020 01:57	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	12.02.2020 01:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-130	12.02.2020 01:57	
o-Terphenyl	84-15-1	126	%	70-130	12.02.2020 01:57	

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Certificate of Analytical Results 678962

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**SW-N**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-001	Date Collected:	11.24.2020 10:40		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.02.2020 13:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.02.2020 13:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.02.2020 13:35	UX	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.02.2020 13:35	UX	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.02.2020 13:35	UX	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	12.02.2020 13:35	U	1
Total BTEX		<0.002000	0.002000	mg/kg	12.02.2020 13:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	0	%	70-130	12.02.2020 13:35	**
1,4-Difluorobenzene	540-36-3	86	%	70-130	12.02.2020 13:35	

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Certificate of Analytical Results 678962

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**SW-E**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-002	Date Collected:	11.24.2020 10:42		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.25.2020 09:45	% Moisture:	
Seq Number:	3143457			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**289**	49.6	mg/kg	11.25.2020 12:32		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143719			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.02.2020 02:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	**61.9**	49.8	mg/kg	12.02.2020 02:55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.02.2020 02:55	U	1
Total TPH	PHC635	**61.90**	49.80	mg/kg	12.02.2020 02:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-130	12.02.2020 02:55	
o-Terphenyl	84-15-1	144	%	70-130	12.02.2020 02:55	**

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Certificate of Analytical Results 678962

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**SW-E**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-002	Date Collected:	11.24.2020 10:42		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.02.2020 13:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.02.2020 13:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.02.2020 13:55	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.02.2020 13:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.02.2020 13:55	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	12.02.2020 13:55	U	1
Total BTEX		<0.002000	0.002000	mg/kg	12.02.2020 13:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	88	%	70-130	12.02.2020 13:55	
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.02.2020 13:55	

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Certificate of Analytical Results 678962

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**SW-S**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-003	Date Collected:	11.24.2020 10:44		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	CHE	Date Prep:	11.30.2020 15:35	% Moisture:	
Seq Number:	3143554			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22.1**	4.95	mg/kg	12.01.2020 09:25		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143719			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.02.2020 03:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.02.2020 03:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.02.2020 03:14	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	12.02.2020 03:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	12.02.2020 03:14	
o-Terphenyl	84-15-1	120	%	70-130	12.02.2020 03:14	

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Certificate of Analytical Results 678962

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**SW-S**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-003	Date Collected:	11.24.2020 10:44		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.02.2020 14:16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.02.2020 14:16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.02.2020 14:16	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.02.2020 14:16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.02.2020 14:16	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	12.02.2020 14:16	U	1
Total BTEX		<0.002000	0.002000	mg/kg	12.02.2020 14:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	87	%	70-130	12.02.2020 14:16	
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.02.2020 14:16	

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Certificate of Analytical Results 678962

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **SW-W** Matrix: Soil Date Received:11.24.2020 15:31

Lab Sample Id: 678962-004 Date Collected: 11.24.2020 10:46

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.25.2020 09:45 % Moisture:

Seq Number: 3143457 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**253**	50.2	mg/kg	11.25.2020 13:02		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:

Seq Number: 3143719 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.02.2020 03:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.02.2020 03:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.02.2020 03:33	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	12.02.2020 03:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	12.02.2020 03:33	
o-Terphenyl	84-15-1	141	%	70-130	12.02.2020 03:33	**

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Certificate of Analytical Results 678962

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**SW-W**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-004	Date Collected:	11.24.2020 10:46		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.02.2020 14:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.02.2020 14:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.02.2020 14:36	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.02.2020 14:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.02.2020 14:36	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	12.02.2020 14:36	U	1
Total BTEX		<0.002000	0.002000	mg/kg	12.02.2020 14:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	81	%	70-130	12.02.2020 14:36	
4-Bromofluorobenzene	460-00-4	97	%	70-130	12.02.2020 14:36	

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Certificate of Analytical Results 678962

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **C-1** Matrix: Soil Date Received:11.24.2020 15:31

Lab Sample Id: 678962-005 Date Collected: 11.24.2020 10:48

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.25.2020 09:45 % Moisture:

Seq Number: 3143457 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**180**	49.7	mg/kg	11.25.2020 13:09		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:

Seq Number: 3143719 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.02.2020 03:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.02.2020 03:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.02.2020 03:52	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	12.02.2020 03:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	12.02.2020 03:52	
o-Terphenyl	84-15-1	120	%	70-130	12.02.2020 03:52	

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Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**C-1**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-005	Date Collected:	11.24.2020 10:48		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.02.2020 14:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.02.2020 14:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.02.2020 14:57	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.02.2020 14:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.02.2020 14:57	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	12.02.2020 14:57	U	1
Total BTEX		<0.002000	0.002000	mg/kg	12.02.2020 14:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	12.02.2020 14:57	
1,4-Difluorobenzene	540-36-3	87	%	70-130	12.02.2020 14:57	

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Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**C-2**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-006	Date Collected:	11.24.2020 10:50		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.25.2020 09:45	% Moisture:	
Seq Number:	3143457			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**184**	49.6	mg/kg	11.25.2020 13:16		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143719			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.02.2020 04:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.02.2020 04:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.02.2020 04:12	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	12.02.2020 04:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	12.02.2020 04:12	
o-Terphenyl	84-15-1	120	%	70-130	12.02.2020 04:12	

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Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**C-2**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-006	Date Collected:	11.24.2020 10:50		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.02.2020 15:18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.02.2020 15:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.02.2020 15:18	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.02.2020 15:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.02.2020 15:18	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	12.02.2020 15:18	U	1
Total BTEX		<0.002000	0.002000	mg/kg	12.02.2020 15:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.02.2020 15:18	
1,4-Difluorobenzene	540-36-3	85	%	70-130	12.02.2020 15:18	

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Certificate of Analytical Results 678962

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**C-3**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-007	Date Collected:	11.24.2020 10:52		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.25.2020 09:45	% Moisture:	
Seq Number:	3143457			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**359**	50.0	mg/kg	11.25.2020 13:24		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143719			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.02.2020 04:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.02.2020 04:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.02.2020 04:31	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	12.02.2020 04:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	12.02.2020 04:31	
o-Terphenyl	84-15-1	123	%	70-130	12.02.2020 04:31	

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Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**C-3**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-007	Date Collected:	11.24.2020 10:52		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.02.2020 15:48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.02.2020 15:48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.02.2020 15:48	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.02.2020 15:48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.02.2020 15:48	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	12.02.2020 15:48	U	1
Total BTEX		<0.002000	0.002000	mg/kg	12.02.2020 15:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	83	%	70-130	12.02.2020 15:48	
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.02.2020 15:48	

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Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **C-4** Matrix: Soil Date Received:11.24.2020 15:31

Lab Sample Id: 678962-008 Date Collected: 11.24.2020 10:54

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.25.2020 09:45 % Moisture:

Seq Number: 3143457 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**128**	49.5	mg/kg	11.25.2020 13:31		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:

Seq Number: 3143719 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.02.2020 04:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.02.2020 04:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.02.2020 04:50	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	12.02.2020 04:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	12.02.2020 04:50	
o-Terphenyl	84-15-1	122	%	70-130	12.02.2020 04:50	

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Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**C-4**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-008	Date Collected:	11.24.2020 10:54		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.02.2020 08:00	% Moisture:	
Seq Number:	3143802			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.02.2020 16:08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.02.2020 16:08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.02.2020 16:08	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.02.2020 16:08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.02.2020 16:08	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	12.02.2020 16:08	U	1
Total BTEX		<0.002000	0.002000	mg/kg	12.02.2020 16:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.02.2020 16:08	
1,4-Difluorobenzene	540-36-3	89	%	70-130	12.02.2020 16:08	

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Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**C-5**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-009	Date Collected:	11.24.2020 10:56		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	CHE	Date Prep:	11.25.2020 11:15	% Moisture:	
Seq Number:	3143454			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1300**	50.3	mg/kg	11.25.2020 16:33		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143719			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.02.2020 05:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	**216**	49.9	mg/kg	12.02.2020 05:09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.02.2020 05:09	U	1
Total TPH	PHC635	**216.0**	49.90	mg/kg	12.02.2020 05:09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-130	12.02.2020 05:09	
o-Terphenyl	84-15-1	129	%	70-130	12.02.2020 05:09	

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Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**C-5**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-009	Date Collected:	11.24.2020 10:56		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.01.2020 08:00	% Moisture:	
Seq Number:	3143691			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.01.2020 13:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.01.2020 13:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.01.2020 13:40	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.01.2020 13:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.01.2020 13:40	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	12.01.2020 13:40	U	1
Total BTEX		<0.002000	0.002000	mg/kg	12.01.2020 13:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	85	%	70-130	12.01.2020 13:40	
4-Bromofluorobenzene	460-00-4	97	%	70-130	12.01.2020 13:40	

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Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**C-6**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-010	Date Collected:	11.24.2020 10:58		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	CHE	Date Prep:	11.25.2020 11:15	% Moisture:	
Seq Number:	3143454			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**216**	50.1	mg/kg	11.25.2020 16:39		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.01.2020 17:00	% Moisture:	
Seq Number:	3143719			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.02.2020 05:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.02.2020 05:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.02.2020 05:28	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	12.02.2020 05:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	12.02.2020 05:28	
o-Terphenyl	84-15-1	118	%	70-130	12.02.2020 05:28	

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Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**C-6**	Matrix:	Soil	Date Received:	11.24.2020 15:31
Lab Sample Id:	678962-010	Date Collected:	11.24.2020 10:58		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	12.01.2020 08:00	% Moisture:	
Seq Number:	3143691			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.01.2020 14:01	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.01.2020 14:01	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.01.2020 14:01	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.01.2020 14:01	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.01.2020 14:01	U	1
Total Xylenes	1330-20-7	<0.001990	0.001990	mg/kg	12.01.2020 14:01	U	1
Total BTEX		<0.001990	0.001990	mg/kg	12.01.2020 14:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	89	%	70-130	12.01.2020 14:01	
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.01.2020 14:01	

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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 678962

Larson and Associates, Inc.

Skeen 2H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143457 — Matrix: Solid — Date Prep: 11.25.2020
MB Sample Id: 7715949-1-BLK — LCS Sample Id: 7715949-1-BKS — LCSD Sample Id: 7715949-1-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	265	106	265	106	90-110	0	20	mg/kg	11.25.2020 10:13	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143454 — Matrix: Solid — Date Prep: 11.25.2020
MB Sample Id: 7715962-1-BLK — LCS Sample Id: 7715962-1-BKS — LCSD Sample Id: 7715962-1-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	261	104	90-110	1	20	mg/kg	11.25.2020 14:05	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143554 — Matrix: Solid — Date Prep: 11.30.2020
MB Sample Id: 7716101-1-BLK — LCS Sample Id: 7716101-1-BKS — LCSD Sample Id: 7716101-1-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	270	108	270	108	90-110	0	20	mg/kg	12.01.2020 08:35	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143457 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 678865-001 — MS Sample Id: 678865-001 S — MSD Sample Id: 678865-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3100	2510	6010	116	5880	111	90-110	2	20	mg/kg	11.25.2020 10:35	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143457 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 678962-001 — MS Sample Id: 678962-001 S — MSD Sample Id: 678962-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	116	2500	3050	117	2960	114	90-110	3	20	mg/kg	11.25.2020 12:18	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143454 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 679025-001 — MS Sample Id: 679025-001 S — MSD Sample Id: 679025-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	989	248	1200	85	1200	85	90-110	0	20	mg/kg	11.25.2020 14:21	X

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 678962

Larson and Associates, Inc.

Skeen 2H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143454 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 679026-005 — MS Sample Id: 679026-005 S — MSD Sample Id: 679026-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	63.2	250	311	99	311	99	90-110	0	20	mg/kg	11.25.2020 15:35	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143554 — Matrix: Soil — Date Prep: 11.30.2020
Parent Sample Id: 679045-001 — MS Sample Id: 679045-001 S — MSD Sample Id: 679045-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.47	248	275	107	275	107	90-110	0	20	mg/kg	12.01.2020 08:54	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143719 — Matrix: Solid — Date Prep: 12.01.2020
MB Sample Id: 7716215-1-BLK — LCS Sample Id: 7716215-1-BKS — LCSD Sample Id: 7716215-1-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	1100	110	1100	110	70-130	0	20	mg/kg	12.02.2020 01:19	
Diesel Range Organics (DRO)	<50.0	1000	1130	113	1200	120	70-130	6	20	mg/kg	12.02.2020 01:19	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		130		101		70-130	%	12.02.2020 01:19
o-Terphenyl	122		129		122		70-130	%	12.02.2020 01:19

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143719 — Matrix: Solid — Date Prep: 12.01.2020
MB Sample Id: 7716215-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.02.2020 00:59	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143719 — Matrix: Soil — Date Prep: 12.01.2020
Parent Sample Id: 678962-001 — MS Sample Id: 678962-001 S — MSD Sample Id: 678962-001 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	1030	103	1080	108	70-130	5	20	mg/kg	12.02.2020 02:17	
Diesel Range Organics (DRO)	<49.9	998	1060	106	1170	117	70-130	10	20	mg/kg	12.02.2020 02:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	123		127		70-130	%	12.02.2020 02:17
o-Terphenyl	113		118		70-130	%	12.02.2020 02:17

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 678962

Larson and Associates, Inc.

Skeen 2H

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143691 — Matrix: Solid — Date Prep: 12.01.2020
MB Sample Id: 7716252-1-BLK — LCS Sample Id: 7716252-1-BKS — LCSD Sample Id: 7716252-1-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	0.0857	86	0.110	110	70-130	25	35	mg/kg	12.01.2020 10:57	
Toluene	<0.00200	0.100	0.0893	89	0.102	102	70-130	13	35	mg/kg	12.01.2020 10:57	
Ethylbenzene	<0.00200	0.100	0.0870	87	0.0988	99	70-130	13	35	mg/kg	12.01.2020 10:57	
m,p-Xylenes	<0.00400	0.200	0.169	85	0.190	95	70-130	12	35	mg/kg	12.01.2020 10:57	
o-Xylene	<0.00200	0.100	0.0866	87	0.0959	96	70-130	10	35	mg/kg	12.01.2020 10:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	82		88		94		70-130	%	12.01.2020 10:57
4-Bromofluorobenzene	92		93		91		70-130	%	12.01.2020 10:57

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143802 — Matrix: Solid — Date Prep: 12.02.2020
MB Sample Id: 7716344-1-BLK — LCS Sample Id: 7716344-1-BKS — LCSD Sample Id: 7716344-1-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	0.103	103	0.109	109	70-130	6	35	mg/kg	12.02.2020 11:11	
Toluene	<0.00200	0.100	0.0993	99	0.104	104	70-130	5	35	mg/kg	12.02.2020 11:11	
Ethylbenzene	<0.00200	0.100	0.102	102	0.107	107	70-130	5	35	mg/kg	12.02.2020 11:11	
m,p-Xylenes	<0.00400	0.200	0.192	96	0.203	102	70-130	6	35	mg/kg	12.02.2020 11:11	
o-Xylene	<0.00200	0.100	0.0949	95	0.101	101	70-130	6	35	mg/kg	12.02.2020 11:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	82		92		93		70-130	%	12.02.2020 11:11
4-Bromofluorobenzene	94		91		94		70-130	%	12.02.2020 11:11

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143691 — Matrix: Soil — Date Prep: 12.01.2020
Parent Sample Id: 678984-001 — MS Sample Id: 678984-001 S — MSD Sample Id: 678984-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0387	39	0.0759	76	70-130	65	35	mg/kg	12.01.2020 11:39	XF
Toluene	<0.00200	0.0998	0.0458	46	0.0683	68	70-130	39	35	mg/kg	12.01.2020 11:39	XF
Ethylbenzene	<0.00200	0.0998	0.0257	26	0.0383	38	70-130	39	35	mg/kg	12.01.2020 11:39	XF
m,p-Xylenes	<0.00399	0.200	0.0748	37	0.0985	49	70-130	27	35	mg/kg	12.01.2020 11:39	X
o-Xylene	<0.00200	0.0998	0.0505	51	0.0633	63	70-130	22	35	mg/kg	12.01.2020 11:39	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	76		91		70-130	%	12.01.2020 11:39
4-Bromofluorobenzene	105		98		70-130	%	12.01.2020 11:39

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 678962

Larson and Associates, Inc.

Skeen 2H

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

Seq Number: 3143802 Matrix: Soil Date Prep: 12.02.2020

Parent Sample Id: 678962-001 MS Sample Id: 678962-001 S MSD Sample Id: 678962-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.106	106	0.0851	85	70-130	22	35	mg/kg	12.02.2020 11:53	
Toluene	<0.00200	0.100	0.0837	84	0.0776	78	70-130	8	35	mg/kg	12.02.2020 11:53	
Ethylbenzene	<0.00200	0.100	0.0675	68	0.0616	62	70-130	9	35	mg/kg	12.02.2020 11:53	X
m,p-Xylenes	<0.00400	0.200	0.128	64	0.119	60	70-130	7	35	mg/kg	12.02.2020 11:53	X
o-Xylene	<0.00200	0.100	0.0652	65	0.0597	60	70-130	9	35	mg/kg	12.02.2020 11:53	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		85		70-130	%	12.02.2020 11:53
4-Bromofluorobenzene	96		101		70-130	%	12.02.2020 11:53

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	

№ 1427

6789162

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 11/24/20 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Skeen 2H

LAI PROJECT #: 20-0107-03 COLLECTOR: TJ

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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 ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
SW - N		11/24/20	1040	S	1				X		X		X	X	X													X		
SW - E			1042																											
SW - S			1044																											
SW - W			1046																											
S-1			1048																											
S-2			1050																											
S-3			1052																											
S-4			1054																											
S-5			1056																											
S-6			1058																											

TOTAL 10

RELINQUISHED BY:(Signature) Brad Dan DATE/TIME 11/24/20 1531 RECEIVED BY: (Signature) Kramer

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: 2.4/2.9 THERM#: R8
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: 11.24.2020 03.31.00 PM

Work Order #: 678962

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)?	2.9	
#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**	BTEX was in bulk container
#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: 11.24.2020
Brianna Teel

Checklist reviewed by: Holly Taylor Date: 11.29.2020
Holly Taylor

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Certificate of Analysis Summary 681077

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H

Project Id: 20-0107-03
Contact: Mark Larson
Project Location:

Date Received in Lab: Tue 12.15.2020 10:42
Report Date: 12.22.2020 08:56
Project Manager: Holly Taylor

Analysis Requested							
	Lab Id:	681077-001					
	Field Id:	C-5					
	Depth:						
	Matrix:	SOIL					
	Sampled:	12.14.2020 13:30					
BTEX by EPA 8021B	***Extracted:***	12.16.2020 14:00					
	Analyzed:	12.16.2020 19:22					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00400 0.00400					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Chloride by EPA 300	***Extracted:***	12.16.2020 10:20					
	Analyzed:	12.16.2020 11:39					
	Units/RL:	mg/kg RL					
Chloride		304 50.4					
TPH by SW8015 Mod	***Extracted:***	12.17.2020 14:00					
	Analyzed:	12.18.2020 00:08					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0					
Diesel Range Organics (DRO)		<50.0 50.0					
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0					
Total TPH		<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 681077

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Skeen 2H

20-0107-03

12.22.2020

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 (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
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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12.22.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **681077**
Skeen 2H
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) 681077. 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. 681077 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 681077

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
C-5	S	12.14.2020 13:30		681077-001

CASE NARRATIVE

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Client Name: Larson and Associates, Inc.

Project Name: Skeen 2H

Project ID: *20-0107-03*
Work Order Number(s): *681077*

Report Date: *12.22.2020*
Date Received: *12.15.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 681077

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**C-5**	Matrix:	Soil	Date Received:	12.15.2020 10:42
Lab Sample Id:	681077-001	Date Collected:	12.14.2020 13:30		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	12.16.2020 10:20	% Moisture:	
Seq Number:	3145163			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**304**	50.4	mg/kg	12.16.2020 11:39		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.17.2020 14:00	% Moisture:	
Seq Number:	3145320			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.18.2020 00:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.18.2020 00:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.18.2020 00:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.18.2020 00:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	12.18.2020 00:08	
o-Terphenyl	84-15-1	111	%	70-130	12.18.2020 00:08	

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Certificate of Analytical Results 681077

Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id:	**C-5**	Matrix:	Soil	Date Received:	12.15.2020 10:42
Lab Sample Id:	681077-001	Date Collected:	12.14.2020 13:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.16.2020 14:00	% Moisture:	
Seq Number:	3145180			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.16.2020 19:22	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.16.2020 19:22	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.16.2020 19:22	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.16.2020 19:22	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.16.2020 19:22	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.16.2020 19:22	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.16.2020 19:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	85	%	70-130	12.16.2020 19:22	
4-Bromofluorobenzene	460-00-4	101	%	70-130	12.16.2020 19:22	

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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

eurofins | Environment Testing Xenco

QC Summary 681077

Larson and Associates, Inc.

Skeen 2H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145163 — Matrix: Solid — Date Prep: 12.16.2020
MB Sample Id: 7717240-1-BLK — LCS Sample Id: 7717240-1-BKS — LCSD Sample Id: 7717240-1-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	12.16.2020 10:42	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145163 — Matrix: Soil — Date Prep: 12.16.2020
Parent Sample Id: 680993-005 — MS Sample Id: 680993-005 S — MSD Sample Id: 680993-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.1	248	272	104	273	105	90-110	0	20	mg/kg	12.16.2020 12:11	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145163 — Matrix: Soil — Date Prep: 12.16.2020
Parent Sample Id: 681035-003 — MS Sample Id: 681035-003 S — MSD Sample Id: 681035-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	325	251	572	98	575	100	90-110	1	20	mg/kg	12.16.2020 10:58	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3145320 — Matrix: Solid — Date Prep: 12.17.2020
MB Sample Id: 7717394-1-BLK — LCS Sample Id: 7717394-1-BKS — LCSD Sample Id: 7717394-1-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	956	96	971	97	70-130	2	20	mg/kg	12.17.2020 17:04	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1040	104	70-130	1	20	mg/kg	12.17.2020 17:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		129		128		70-130	%	12.17.2020 17:04
o-Terphenyl	121		98		97		70-130	%	12.17.2020 17:04

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3145320 — Matrix: Solid — Date Prep: 12.17.2020
MB Sample Id: 7717394-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.17.2020 16:46	

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

eurofins | Environment Testing Xenco

QC Summary 681077

Larson and Associates, Inc.

Skeen 2H

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3145320 — Matrix: Soil — Date Prep: 12.17.2020
Parent Sample Id: 680993-001 — MS Sample Id: 680993-001 S — MSD Sample Id: 680993-001 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)	<50.0	999	1160	116	1190	119	70-130	3	20	mg/kg	12.17.2020 18:00	
Diesel Range Organics (DRO)	<50.0	999	1150	115	1190	119	70-130	3	20	mg/kg	12.17.2020 18:00	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		119		70-130	%	12.17.2020 18:00
o-Terphenyl	97		128		70-130	%	12.17.2020 18:00

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3145180 — Matrix: Solid — Date Prep: 12.16.2020
MB Sample Id: 7717309-1-BLK — LCS Sample Id: 7717309-1-BKS — LCSD Sample Id: 7717309-1-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	0.0851	85	0.0832	83	70-130	2	35	mg/kg	12.16.2020 15:16	
Toluene	<0.00200	0.100	0.0942	94	0.0950	95	70-130	1	35	mg/kg	12.16.2020 15:16	
Ethylbenzene	<0.00200	0.100	0.0976	98	0.101	101	70-130	3	35	mg/kg	12.16.2020 15:16	
m,p-Xylenes	<0.00400	0.200	0.176	88	0.177	89	70-130	1	35	mg/kg	12.16.2020 15:16	
o-Xylene	<0.00200	0.100	0.0867	87	0.0875	88	70-130	1	35	mg/kg	12.16.2020 15:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	79		87		87		70-130	%	12.16.2020 15:16
4-Bromofluorobenzene	99		93		96		70-130	%	12.16.2020 15:16

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3145180 — Matrix: Soil — Date Prep: 12.16.2020
Parent Sample Id: 681035-003 — MS Sample Id: 681035-003 S — MSD Sample Id: 681035-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0664	66	0.0562	57	70-130	17	35	mg/kg	12.16.2020 15:57	X
Toluene	<0.00201	0.101	0.0830	82	0.0785	79	70-130	6	35	mg/kg	12.16.2020 15:57	
Ethylbenzene	<0.00201	0.101	0.0897	89	0.0886	89	70-130	1	35	mg/kg	12.16.2020 15:57	
m,p-Xylenes	<0.00402	0.201	0.153	76	0.153	77	70-130	0	35	mg/kg	12.16.2020 15:57	
o-Xylene	<0.00201	0.101	0.0827	82	0.0763	77	70-130	8	35	mg/kg	12.16.2020 15:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	82		76		70-130	%	12.16.2020 15:57
4-Bromofluorobenzene	95		94		70-130	%	12.16.2020 15:57

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

№1458

681077

CHAIN-OF-CUSTODY

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

DATE: 12/15/2020 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: SKEEN 2H

LAI PROJECT #: 20-0107-03 COLLECTOR: TJ

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
C-5		12/14/20	1330	S	1				X		X		X	X	X														X		

TA

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Tom Sell	12/15/2020 1042	
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

BORATORY: XENCO

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

LABORATORY USE ONLY:
RECEIVING TEMP: 0.9 THERM#: 128
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: 12.15.2020 10.42.00 AM

Work Order #: 681077

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)?	.9	
#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**	BTEX was in bulk container
#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: 12.15.2020
Brianna Teel

Checklist reviewed by: Holly Taylor Date: 12.18.2020
Holly Taylor

Appendix B

Photographs

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211125

Operator No.
Operators Name: Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No.: Skeen 22627 State 7-H
County
API No.: 30015 41097
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		Belly
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil	✓	Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name: JMT
Address
Phone No.

Driver's Name: Gregg Herrera
Print Name
Phone No.
Truck No.: 162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12-1-20 SHIPMENT DATE | DRIVER'S SIGNATURE | 12-1-20 DELIVERY DATE | DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: 3:33PM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. D1

Site Name/Permit No.: Red Bluff Facility/ STF-065
Phone No.: 432-448-4239
Address: 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride 8 Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ~~ACCEPTED~~ DENIED If denied, why? REJ

Mary Navarrete | 01-20 | | M Navarrete

NAME (PRINT) | DATE | TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

CHEVRON
MCBU

Carlsbad, NM

NO #CAR-3382 **NON-HAZARDOUS WASTE MANIFEST** 1. PAGE 1 OF 4 2. TRAILER NO. 162

GENERATOR

3. COMPANY NAME: CHEVRON CARLSBAD
PHONE NO.: 575-887-5676
4. ADDRESS: 3150 E. GREENE ST.
CITY / STATE / ZIP: CARLSBAD, NM 88220
5. PICK-UP DATE: 12-1-2020
6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
Contaminated Soil Oil + PW					
a. API - 3001541047000	1	BD	20yds		
b. Cost Code UCRE12000					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: Skeen 2 Wellsite Clean up
13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**
CHEVRON CARLSBAD
24-HOUR EMERGENCY NO. 575-887-5676

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

PRINTED TYPED NAME: Stephen Poe CVX
SIGNATURE: Steph Poe CVX
DATE: 12-1-2020

TRANSPORTERS

16. **TRANSPORTER (1)**
NAME: [illegible]
IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:

17. **TRANSPORTER (2)**
NAME
IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:

18. **TRANSPORTER** (1): Acknowledgment of receipt of material
PRINTED/TYPED NAME: [illegible]
SIGNATURE: [illegible] DATE: 12-1-2[illegible]

19. **TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME
SIGNATURE DATE

DISPOSAL FACILITY

ADDRESS: R360 Environmental Solutions - Red Bluff
5053 US Highway 285
Orla, TX 79770 432-448-4239
PHONE:

PERMIT NO.
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
Maria Navarrete	D1	12-01-20	3:33PM

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

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

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211131

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. Skeen 2267 Stat 7-H
County
API No. 30-015 41047
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Balls
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil	✓			
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name JHJ
Address
Phone No.

Driver's Name
Print Name
Phone No.
Truck No. 162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12-1-20 SHIPMENT DATE | DRIVER'S SIGNATURE

12-1-20 DELIVERY DATE | DRIVER'S SIGNATURE

TRUCK TIME STAMP
IN: 1:51PM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. D1

Site Name/Permit No. Red Bluff Facility/ STF-065
Phone No. 432-448-4239
Address 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Marcy Navarrete | 12-01-20 | ROC | M Navarrete

NAME (PRINT) | DATE | TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

CHEVRON
MCBU

Carlsbad, NM

NO #CAR- **NON-HAZARDOUS WASTE MANIFEST** 1. PAGE 1 OF 1 2. TRAILER NO.

GENERATOR

3. COMPANY NAME: CHEVRON CARLSBAD
PHONE NO. 575-887-5676

4. ADDRESS: 3150 E. GREENE ST.
CITY STATE ZIP: CARLSBAD, NM 88220

5. PICK-UP DATE
6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED: Contaminated Soil Oil + Pw	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. API - 30015 10 70001	1	BT	20yds		
b. Cost Code - UCRE 12000					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: Skeen 2 wellsite clean up

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT
CHEVRON CARLSBAD
24-HOUR EMERGENCY NO. 575-887-5676

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

PRINTED TYPED NAME: Stephen Poe CVX Rep
SIGNATURE: Stephen Poe CVX
DATE: 12-1-2020

TRANSPORTERS

16. **TRANSPORTER (1)**
NAME
IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:

17. **TRANSPORTER (2)**
NAME
IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:

18. **TRANSPORTER** (1): Acknowledgment of receipt of material
PRINTED/TYPED NAME
SIGNATURE DATE 12-1-20

19. **TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME
SIGNATURE DATE

DISPOSAL FACILITY

ADDRESS: R360 Environmental Solutions - Red Bluff
5053 US Highway 285
Orla, TX 79770 432-448-4239

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: Marla Navarrete
CELL NO. D
DATE 12-1-20
TIME 1:51

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

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

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211132

Operator No.
Operators Name: Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No.: Sloan 2227 State 7H
County
API No.: 30-015-47047
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)	
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)	Bolts
Water Based Cuttings		Produced Water (Non-Injectable)	
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms		INTERNAL USE ONLY	
E&P Contaminated Soil	4	Truck Washout (exempt waste)	
Gas Plant Waste			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name: JHT
Address
Phone No.

Driver's Name: Jorge Herrera
Print Name
Phone No.
Truck No.: 162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12-1-20 SHIPMENT DATE | DRIVER'S SIGNATURE | 12-1-20 DELIVERY DATE | DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 12:00AM OUT:

RECEIVING AREA Name/No. D1

Site Name/ Permit No.: Red Bluff Facility/ STF-065
Phone No.: 432-448-4239
Address: 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) ~~YES~~ NO
If YES, was reading > 50 micro roentgens? (circle one) YES ~~NO~~

Chemical Analysis (Mg/l) Chloride 80 Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ~~ACCEPTED~~ DENIED If denied, why?

Maria Nunez NAME (PRINT) | 12-01-20 DATE | Rec TITLE | Maria Nunez SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

CHEVRON
MCBU
Carlsbad, NM

NO #CAR- 3378 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE 1 OF 4 | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD PHONE NO. 575-887-5676	3150 E. GREENE ST. CITY CARLSBAD, STATE NM ZIP 88220	12-1-2020 6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
Contaminate Soil Oil + Pw					
a. API - 30015410470001	1	BD	20yds		
b. Cost Code - UCRE1200D					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: Well Site Clean up Screen 2

13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

CHEVRON CARLSBAD — 24-HOUR EMERGENCY NO. 575-887-5676

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

PRINTED TYPED NAME	SIGNATURE	DATE
Stephen Poe CVX	Stephen Poe CVX	12-1-2020

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME Rodriguez R&M	NAME
IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (432) 232-1580	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME Victor Lopez	PRINTED/TYPED NAME
SIGNATURE DATE 12-1-2	SIGNATURE DATE

DISPOSAL FACILITY

ADDRESS: R360 Environmental Solutions - Red Bluff 5053 US Highway 285 Orla, TX 79770 432-448-4239	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
Maria Navarrete	D1	12.01.20	12:00AM

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

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

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211133

Operator No.
Operators Name: Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No.: Skeen 22&27 State 2H
County
API No.: 30-015-41047
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)	Bollsdump
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings		Produced Water (Non-Injectable)	
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms		INTERNAL USE ONLY	
E&P Contaminated Soil		Truck Washout (exempt waste)	
Gas Plant Waste			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name: JHT
Address
Phone No.

Driver's Name: Fred Herrera
Print Name
Phone No.
Truck No.: 162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12-1-20 SHIPMENT DATE | DRIVER'S SIGNATURE | 12-1-20 DELIVERY DATE | DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: 10:35 AM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. D1

Site Name/Permit No.: Red Bluff Facility/ STF-065
Phone No.: 432-448-4239
Address: 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Maria Nunez 12-1-20 REC

NAME (PRINT) | DATE | TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

CHEVRON
MCBU

Carlsbad, NM

NO #CAR-

NON-HAZARDOUS WASTE MANIFEST

1. PAGE 1 OF 4
2. TRAILER NO.

GENERATOR

3. COMPANY NAME: CHEVRON CARLSBAD
PHONE NO. 575-887-5676

4. ADDRESS: 3150 E. GREENE ST.
CITY STATE ZIP: CARLSBAD, NM 88220

5. PICK-UP DATE: 12-1-2020

6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED: Contaminated Soil Oil & W	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. API - 3001541647000	1	BD	20		
b. ~~[illegible]~~ Cost Code UCBE 12000					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: Well site clean up

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT
CHEVRON CARLSBAD
24-HOUR EMERGENCY NO. 575-887-5676

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

PRINTED TYPED NAME: Stephen Poe CVX
SIGNATURE: [signature]
DATE: 12-1-2020

TRANSPORTERS

16. **TRANSPORTER (1)**
NAME: [illegible]
IN CASE OF EMERGENCY CONTACT: [illegible]
EMERGENCY PHONE: [illegible]

17. **TRANSPORTER (2)**
NAME:
IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:

18. **TRANSPORTER** (1): Acknowledgment of receipt of material
PRINTED/TYPED NAME: [illegible]
SIGNATURE: DATE:

19. **TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME:
SIGNATURE: DATE:

DISPOSAL FACILITY

R360 Environmental Solutions - Red Bluff
ADDRESS: 5053 US Highway 285
Orla, TX 79770 432-448-4239
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: Maria Navarrete
CELL NO. D1
DATE: 12-01-20
TIME: 10:38AM

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

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

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

NO. 212866

GENERATOR

Operator No.
Operators Name: Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.: Skeen 2627
Lease/Well Name & No.: State 241
County
API No.: 3001541047000 1
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil	20			Bell Y
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name: R+M
Address: SAT
Phone No.

Driver's Name: Fabian Contreras
Print Name
Phone No.
Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12-1-20 | JCat | 12-1-20 | JCat
SHIPMENT DATE | DRIVER'S SIGNATURE | DELIVERY DATE | DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: 3:30PM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. D1

Site Name/ Permit No.: Red Bluff Facility/ STF-065
Phone No.: 432-448-4239
Address: 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one) ACCEPTED DENIED If denied, why?

Maria Navarrete 12-1-20 Rej
NAME (PRINT) DATE TITLE SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

CHEVRON MCBU

Carlsbad, NM

NO #CAR- **NON-HAZARDOUS WASTE MANIFEST** 1. PAGE 1 OF 1 2. TRAILER NO.

GENERATOR

3. COMPANY NAME: CHEVRON CARLSBAD
PHONE NO.: 575-887-5676
4. ADDRESS: 3150 E. GREENE ST.
CITY STATE ZIP: CARLSBAD, NM 88220
5. PICK-UP DATE:
6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED: Contaminated Soil Oil & H2O	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. API 3001541047000	1				
b. Cost Code UCRL 12002					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS:
13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**
CHEVRON CARLSBAD
24-HOUR EMERGENCY NO. 575-887-5676

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

PRINTED TYPED NAME: Stephen Poe CVX
SIGNATURE: [signature]
DATE:

TRANSPORTERS

16. **TRANSPORTER (1)**
NAME
IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:

17. **TRANSPORTER (2)**
NAME
IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:

18. **TRANSPORTER** (1): Acknowledgment of receipt of material
PRINTED/TYPED NAME
SIGNATURE DATE

19. **TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME
SIGNATURE DATE

DISPOSAL FACILITY

ADDRESS: R360 Environmental Solutions - Red Bluff
5053 US Highway 285
Orla, TX 79770 432-448-4239
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
Maria Navarrete	D1	12-01-20	3:38PM

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

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

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 212869

Operator No. Chevron
Operators Name
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. Skeen 22 27 State 2H
County
API No. 30015-41047
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil		Truck Washout (exempt waste)		
Gas Plant Waste				

Bell Y

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name RXM
Address SHT
Phone No.

Driver's Name Fabian Contreras
Print Name
Phone No.
Truck No. 174

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12-1-20 SHIPMENT DATE | DRIVER'S SIGNATURE | 12-1-20 DELIVERY DATE | DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: 10:41AM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. D

Site Name/Permit No. Red Bluff Facility/ STF-065
Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ~~ACCEPTED~~ DENIED If denied, why?

Maria Navarrete | 12-01-20 | RoC | MNavarrete

NAME (PRINT) | DATE | TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

CHEVRON
MCBU

Carlsbad, NM

NO #CAR-[illegible] **NON-HAZARDOUS WASTE MANIFEST** 1. PAGE 1 OF 4 2. TRAILER NO. [illegible]

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD	3150 E. GREENE ST.	12-1-2020
PHONE NO. 575-887-5676	CITY STATE ZIP CARLSBAD, NM 88220	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED: Contaminated Soil Dirt Pile	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. API 30015410470021	1	[illegible]	20 yds		
b. Cost Code MCRE 12000					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: Well Site Clean up Skeard

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

CHEVRON CARLSBAD

24-HOUR EMERGENCY NO. 575-887-5676

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

PRINTED/TYPED NAME [signature] SIGNATURE DATE

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME [illegible]	NAME
IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: [illegible]	EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME [signature]	PRINTED/TYPED NAME
SIGNATURE [illegible] DATE [illegible]	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
Maria Navarrete	D1	10:40AM	12-1-20

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

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

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 212870

Operator No. Chevron
Operators Name
Address
City, State, Zip
Phone No.

Permit/RRC No. / Lease/Well Name & No. Skeen 2 State
County Eddy
API No. 3001541047 0001
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		Belly
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil	X	Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name R+R
Address SHT
Phone No.

Driver's Name Fabian Contreras
Print Name
Phone No.
Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12-1-20 (SHIPMENT DATE) M Contreras (DRIVER'S SIGNATURE) 12-1-20 (DELIVERY DATE) JCarl (DRIVER'S SIGNATURE)

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 1:54PM OUT:

RECEIVING AREA Name/No.

Site Name/Permit No. Red Bluff Facility/ STF-065
Phone No. 432-448-4239
Address 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ~~ACCEPTED~~ DENIED If denied, why?

Marcy Navarrete (NAME (PRINT)) 12-1-20 (DATE) Rec (TITLE) MNavarrete (SIGNATURE)

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

CHEVRON
MCBU

Carlsbad, NM

NO #CAR-3381 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE 1 OF 4 | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD	3150 E. GREENE ST.	12-1-2020
PHONE NO. 575-887-5676	CITY STATE ZIP: CARLSBAD, NM 88220	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	8. CONTAINERS Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
Contaminated Soil O,I + PW					
a. API 3001541647000 1	1	BD	20yds		
b. Cost Code UCRE12000					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: Skeen 2 wellsite clean up

13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

CHEVRON CARLSBAD — 24-HOUR EMERGENCY NO. 575-887-5676

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

PRINTED TYPED NAME	SIGNATURE	DATE
Stephen Poe	Steph Poe	12-1-2020

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME Fabian Contreras TRUCK	NAME
IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (432) 232-1503	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME Fabian Contreras	PRINTED/TYPED NAME
SIGNATURE DATE 12-1-20	SIGNATURE DATE

DISPOSAL FACILITY

	ADDRESS	PHONE:
R360 Environmental Solutions - Red Bluff	5053 US Highway 285 Orla, TX 79770 432-448-4239	
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
Maria Navarrete	D1	12-1-20	1:58PM

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

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

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 212871

Operator No. Chevron
Operators Name
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. Skeen 2627 State 2H
County Eddy
API No. 3001541047 0001
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		Belly
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil	—	Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name R+M
Address STH
Phone No.

Driver's Name Fabian Contreras
Print Name
Phone No.
Truck No. 179

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12-1-20 SHIPMENT DATE | DRIVER'S SIGNATURE | 12-1-20 DELIVERY DATE | DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: 12:22PM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No.

Site Name/Permit No. Red Bluff Facility/ STF-065
Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Maria Navarrete | 12-1-20 | REC | M Navarrete
NAME (PRINT) | DATE | TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

CHEVRON
MCBU

Carlsbad, NM

NO #CAR-3379 **NON-HAZARDOUS WASTE MANIFEST** 1. PAGE ___ OF ___ 2. TRAILER NO.

GENERATOR

3. COMPANY NAME: CHEVRON CARLSBAD
PHONE NO. 575-887-5676

4. ADDRESS: 3150 E. GREENE ST.
CITY STATE ZIP: CARLSBAD, NM 88220

5. PICK-UP DATE: 12-1-2020

6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED: Contaminated Soil	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. API 30015410477000	1	80	20 yds		
b. Cost Code UCRE 10000					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: Well Site Clean Up Skeen 2

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT
CHEVRON CARLSBAD
24-HOUR EMERGENCY NO. 575-887-5676

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

PRINTED TYPED NAME: Stephen Poe
SIGNATURE: Steph Poe CVX
DATE: 12-1-2020

TRANSPORTERS

16. **TRANSPORTER (1)**
NAME
IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:

17. **TRANSPORTER (2)**
NAME
IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:

18. **TRANSPORTER** (1): Acknowledgment of receipt of material
PRINTED/TYPED NAME
SIGNATURE DATE

19. **TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME
SIGNATURE DATE

DISPOSAL FACILITY

ADDRESS: R360 Environmental Solutions
5053 US Highway 285
Orla, TX 79770 2046 432-448-4235

PHONE:

PERMIT NO.

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: Maria Navarrete
CELL NO. D1
DATE 12-01-20
TIME 12:24PM

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

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

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name Joe Perez
Phone No.

GENERATOR

NO. 214104

Operator No. Enrique Acosta
Operators Name CHEVRON
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. SKeen 2H
County
API No. 3001541047
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Belly
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil	✓			
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

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☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name FS trucking WHP# 4856
Address
Phone No.

Driver's Name Enrique Acosta
Print Name
Phone No. N/A
Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12-14-20 Enrique Acosta (SHIPMENT DATE / DRIVER'S SIGNATURE) 12-14-20 Enrique Acosta (DELIVERY DATE / DRIVER'S SIGNATURE)

TRUCK TIME STAMP IN: 3:24PM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. D-1

Site Name/Permit No. Red Bluff Facility/ STF-065
Phone No. 432-448-4239
Address 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) (YES) NO If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride Conductivity (mmhos/cm) 7 pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): (ACCEPTED) DENIED If denied, why?

Vernice Calderon (NAME (PRINT)) 12/14/20 (DATE) Rec (TITLE) V. Calderon (SIGNATURE)

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

CHEVRON
MCBU
Carlsbad, NM

NO #CAR-3426 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE 1 OF 1 | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD	3150 E. GREENE ST.	12-14-2020
PHONE NO. 575-887-5676	CITY CARLSBAD STATE NM ZIP 88220	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Contaminated Dirt	1	Dump Truck	20 YDS		
b. Skeen 2H Skeen 2 26 27 State 2H					
c. API-30015410470001					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: Skeen 2H Remediation

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

CHEVRON CARLSBAD — 24-HOUR EMERGENCY NO. 575-887-5676

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

PRINTED TYPED NAME: Joe R Perez — SIGNATURE: Joe R Perez — DATE: 12-14-2020

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME ENRIQUE ACOSTA 432 2023057	NAME
IN CASE OF EMERGENCY CONTACT: Victor Leyva	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: 432-232-1580	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. R360 Environmental Solutions - Red Bluff

5053 US Highway 285

Ona, TX 79770 432-448-4239

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
J. Calhoun		12/14/20	3:24 PM

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

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

CHEVRON
MCBU

Carlsbad, NM

NO #CAR- 3426 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE 1 OF 1 | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD	3150 E. GREENE ST.	12-14-2020
PHONE NO. 575-887-5676	CITY CARLSBAD, STATE NM, ZIP 88220	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	8. CONTAINERS Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Contaminated Dirt	1	Dump Truck	20 YDS		
b. Skeen 2H Skeen 2 26 27 Stack 2H					
c. API-30015410470001					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: Skeen 2H Remediation

13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

CHEVRON CARLSBAD — 24-HOUR EMERGENCY NO. 575-887-5676

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

PRINTED TYPED NAME: Joe R Perez — SIGNATURE — DATE: 12-14-2020

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME ENRIQUE ACOSTA 432 202 3057	NAME
IN CASE OF EMERGENCY CONTACT: Victor Lopez	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: 432 232 1572	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:
	R360 Environmental Solutions - Red Bluff 5053 US Highway 285 Orla, TX 79770 432-448-4239	
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
J. Calduch		12/14/20	3:24 PM

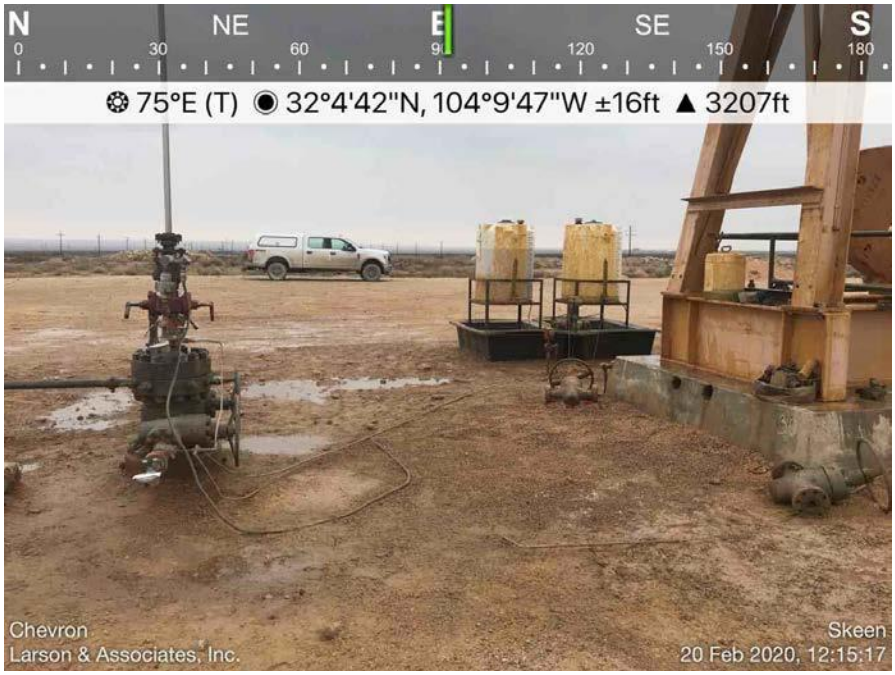
Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

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

Appendix C

Photographs

nRM2004350563
Closure Report
Chevron USA, Inc., Skeen 2H Pumping Unit
Produced Water Release
December 29, 2020

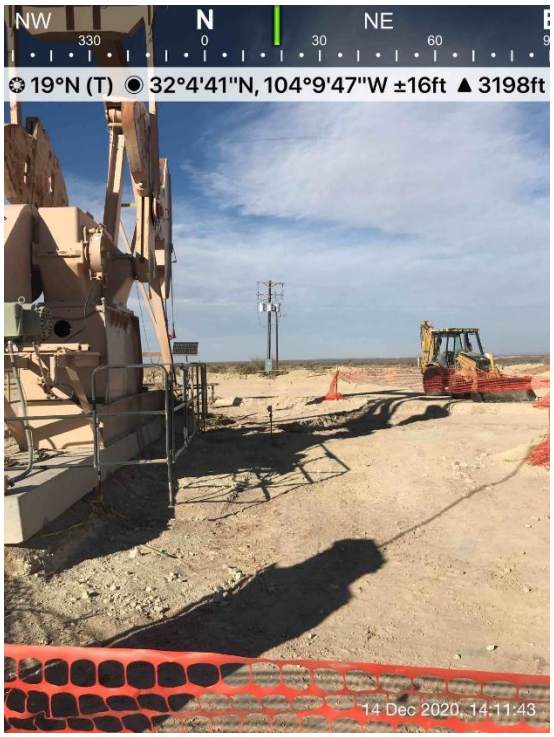


Impacted area viewing east, February 20, 2020

Impacted area viewing west, February 20, 2020

nRM2004350563
Closure Report
Chevron USA, Inc., Skeen 2H Pumping Unit
Produced Water Release
December 29, 2020

Impacted area viewing west/southwest, February 20, 2020



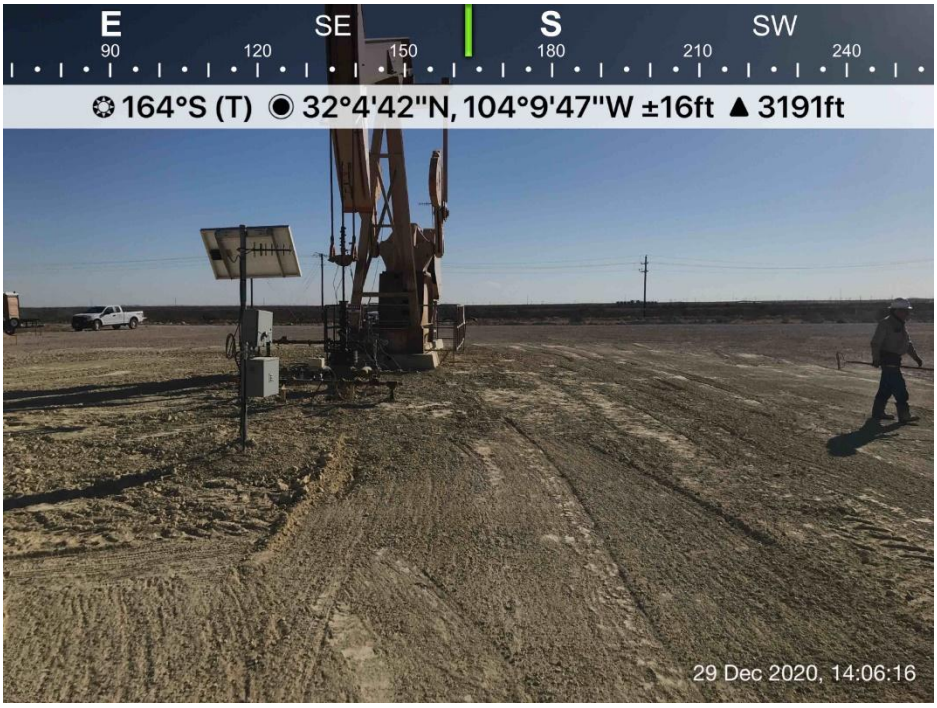
Excavated soil viewing north/northeast, December 14, 2020

nRM2004350563
Closure Report
Chevron USA, Inc., Skeen 2H Pumping Unit
Produced Water Release
December 29, 2020

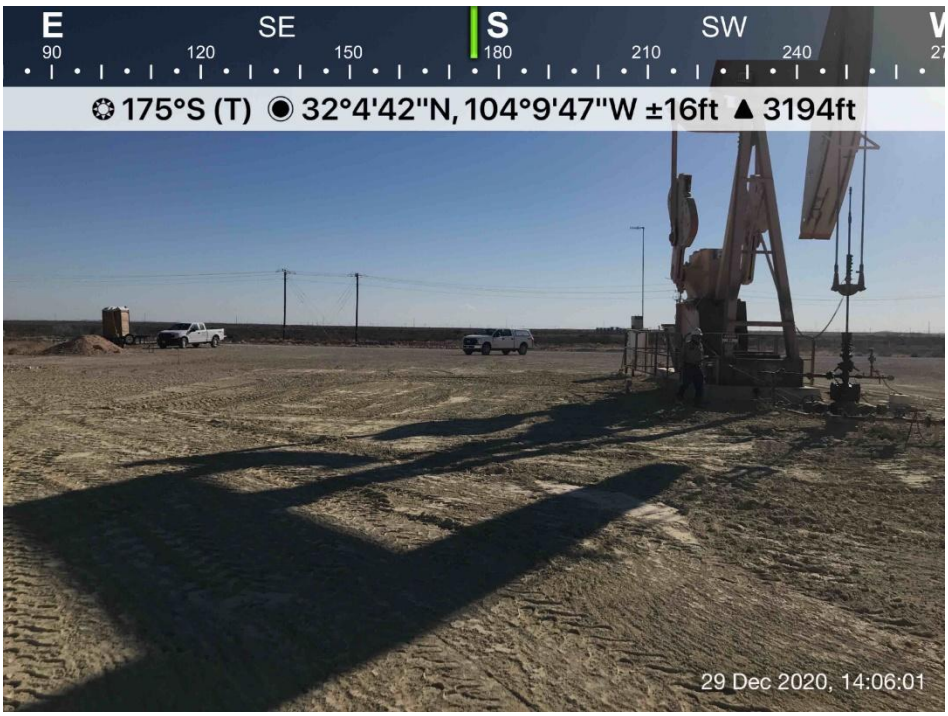
Additional 1 foot excavated from C-5 viewing southwest, December 14, 2020

Excavated soil viewing south, December 14, 2020

nRM2004350563
Closure Report
Chevron USA, Inc., Skeen 2H Pumping Unit
Produced Water Release
December 29, 2020



Backfilled excavation viewing south, December 29, 2020



Backfilled excavation viewing south, December 29, 2020

nRM2004350563
Closure Report
Chevron USA, Inc., Skeen 2H Pumping Unit
Produced Water Release
December 29, 2020

Backfilled Excavation viewing west, December 29, 2020

Backfilled excavation viewing north, December 29, 2020

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 14350

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
CHEVRON U S A INC	6301 Deauville Blvd	Midland, TX79706	4323	14350	C-141

OCD Reviewer	Condition
kcollins	None