State of New Mexico
Oil Conservation Division

Incident ID	nAPP2034962750
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?	>101.5 (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.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2034962750
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amy Barnhill Title: Lead Environmental Specialist

Signature: Amy Barnhill Date: 5-5-22

email: ABarnhill@chevron.com Telephone:432-687-7723

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2034962750
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.***

- [X] Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- [X] Extents of contamination must be fully delineated.
- [X] 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: 5-5-22

email: ABarnhill@chevron.com Telephone: 432-687-7723

OCD Only

Received by: _____ Date: _____

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

Signature: Jennifer Nobui Date: 05/25/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2034962750
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: 5-5-22

email: ABarnhill@chevron.com Telephone: 432-687-7723

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: nAPP2034962750
Closure Report
Salado Draw 24 CTB Produced Water Spill
Produced Water Release
Lea County, New Mexico

Latitude: N 32.022671°
Longitude: W -103.633424°

LAI Project No. 21-0100-01

May 5, 2022

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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1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this closure report on behalf of Chevron USA Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (OCD) District I for a produced water release at the Salado Draw 24 CTB (Site) located in Unit M (SW/4, SW/4), Section 24, Township 26 South, Range 32 East, in Lea County, New Mexico. The geodetic position is North 32.022671° and West -103.633424°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on December 2, 2020, and occurred due to a leak in a 12" ball valve on a water trunk line from the Salado Draw 24 Tank Battery to the Saltwater Disposal (SWD) 13. Chevron reported that 123 barrels (bbls) of produced water were released and 97 bbls were recovered. The affected area measures approximately 6,073 square feet. The surface owner is the Bureau of Land Management (BLM). The initial C-141 was submitted to OCD District I on December 14, 2020, and assigned incident number nAPP2034962750. Appendix A presents the Chevron spill calculation.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,135 feet above mean sea level (msl).
- The surface topography slopes gradually to the southwest.
- There are no surface water features within 1,000 feet of the Site.
- Karst data provided by the USGS describes this site as "medium Risk" potential.
- The soils are designated as Pyote soil and dune land, 0 to 3 percent slopes, consisting of 0 to 30 inches of fine sand, underlain by 30 to 60 inches of a fine sand loam.
- The surface geology consists Quaternary age sand and silt, and locally includes cover sand (USGS).
- Groundwater occurs at a depth greater than 101.5 feet below ground surface (bgs) based on depth to groundwater measurements 72 hours after drilling a groundwater bore (SB-1) on April 14, 2020.

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

1.3 Remediation Levels

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

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

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

2.0 DELINEATION

The release was fully delineated between January 20, 2021, and March 4, 2021. The delineation was reported to the NMOCD in the document titled "Tracking Number: nAPP2034962750, Delineation Report and Remediation Plan, Salado Draw 24 CTB Produced Water Release, Lea County, New Mexico, April 26, 2021" and recommended the following remediation:

- Excavate soil from an area measuring approximately 5,527 square feet encompassing sample locations S-2 through S-5 to approximately 4.1 feet bgs.
- Collect five (5) point composite bottom and sidewall confirmation soil samples every 200 square feet of excavation and analyze for BTEX, TPH and chloride.
- Backfill excavations with clean topsoil with the ROW assuming achievement of OCD remediation levels.
- Seed the backfilled area with BLM mix #2.
- Prepare closure report with photographs for submittal to OCD District I.

NMOCD approved the remediation plan on July 30, 2021. Table 1 presents the delineation soil sample analytical data summary. Appendix D presents NMOCD communications.

3.0 REMEDIATION

On February 21, 2022, Bullseye Testing, LLC. (Bullseye), under supervision from LAI personnel, utilized a hydrovac to daylight underground utility lines prior to conducting the excavation. The hydrovac media (i.e., soil, water, and rock) was stockpiled in a lined containment on a pad west of the excavation Site and transported with contaminated soil to R360 Halfway Facility between Carlsbad and Hobbs, New Mexico.

On February 22, 2022, Bullseye, under supervision from LAI personnel, began to excavate soil from the spill area measuring approximately 5,527 square feet encompassing sample locations S-2 through S-5. Soil was excavated to approximately 4.1 feet bgs. Contaminated soil was stockpiled on a liner in the same area as where the hydrovac material was stockpiled. Approximately 900 cubic yards of soil were hauled to R360 Halfway Facility.

On March 2, 2022, LAI personnel collected thirty-eight (38) confirmation soil samples from the bottom and sidewalls of the excavation. The soil samples were delivered under chain of custody and preservation to the Eurofins-Xenco Laboratories (Xenco) in Midland, Texas. The laboratory analyzed the samples for BTEX, TPH, and chloride by EPA SW-846 Methods 8021B, 8015M, and 300.0E, respectively. Benzene, BTEX, and TPH reported below the NMOCD remediation standards in all confirmation composite soil samples. Chloride reported above the NMOCD remediation standard of 600 mg/Kg in the following samples:

Sample ID	Location	Depth (Feet)	Chloride (mg/Kg)
SW-1	Sidewall	0 – 4.1	4,310
SW-3	Sidewall	0 – 4.1	904
SW-5	Sidewall	0 – 4.1	25,200
SW-6	Sidewall	0 – 4.1	5,910
SW-7	Sidewall	0 – 4.1	1,380
SW-8	Sidewall	0 – 4.1	4,800

SW-9	Sidewall	0 – 4.1	906

On March 17, 2022, Bullseye excavated an additional one (1) foot from the sidewalls encompassing sample locations SW-1, SW-3, SW-5, and SW-6. Laboratory analysis reported benzene, BTEX, TPH, and chloride below the NMOCD remediation standards in all confirmation soil samples listed in Table 1 of 19.15.29 NMAC. Figure 3 presents the soil excavation areas and confirmation sample locations. Table 2 presents the confirmation and backfill sample analytical data summary. Appendix F presents the laboratory reports.

On March 23, 2022, Bullseye backfilled the excavation with clean caliche. LAI personnel collected three (3) composite samples (BF-1 through BF-3) of clean topsoil from a nearby burrow pit. Xenco analyzed the samples for benzene, BTEX, TPH, and chloride. Benzene, BTEX, and TPH were below the analytical method reporting limits (RLs) and chloride was less than 600 mg/Kg.

On April 5, 2022, the excavation area was seeded with BLM Mix #2. Appendix F presents Waste Manifests. Appendix G presents photographs.

4.0 DEFERRAL REQUEST

Chevron requests deferral for chloride at sidewall sample locations C-7, C-8, and C-9 where an aboveground pipeline riser, connecting the Salado Draw 24 tank battery to the Salado Draw 13 SWD is located. Further excavation of these areas risks jeopardizing the integrity of the flowline resulting in additional environmental impacts. Figure 5 presents an aerial map showing the deferral locations.

Tables

Table 1
Soil Sample Analytical Data Summary
Salado Draw 24 CTB Produced Water Spill
Lea County, New Mexico
32° 01' 21.79" North, 103° 38' 00.39" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100/2,500**	**600/20,000**
S-1	0.5	1/20/2021	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	5.74
	1	1/20/2021	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	9.01
S-2	0.5	1/20/2021	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	**3,380**
	1	1/20/2021	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	**3,780**
	1	3/4/2021	In-Situ	--	--	--	--	--	--	**3,840**
	3	3/4/2021	In-Situ	--	--	--	--	--	--	**6,820**
	5	3/4/2021	In-Situ	--	--	--	--	--	--	10,900
	10	3/4/2021	In-Situ	--	--	--	--	--	--	199
S-3	0.5	1/20/2021	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	**5,400**
	1	1/20/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	**5,030**
	1	3/4/2021	In-Situ	--	--	--	--	--	--	**3,320**
	3	3/4/2021	In-Situ	--	--	--	--	--	--	**3,810**
	5	3/4/2021	In-Situ	--	--	--	--	--	--	5,980
	10	3/4/2021	In-Situ	--	--	--	--	--	--	2,050
S-4	0.5	1/20/2021	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	**2,820**
	1	1/20/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	**3,750**
	1	3/4/2021	In-Situ	--	--	--	--	--	--	**3,670**
	3	3/4/2021	In-Situ	--	--	--	--	--	--	**4,610**
	5	3/4/2021	In-Situ	--	--	--	--	--	--	753
	10	3/4/2021	In-Situ	--	--	--	--	--	--	45.2
S-5	0.5	1/20/2021	In-Situ	<0.00200	<0.00200	<49.9	64.6	<49.9	64.6	**3,750**

Table 1
Soil Sample Analytical Data Summary
Salado Draw 24 CTB Produced Water Spill
Lea County, New Mexico
32° 01' 21.79" North, 103° 38' 00.39" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100/2,500**	**600/20,000**
	1	1/20/2021	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	**3,080**
	1	3/4/2021	In-Situ	--	--	--	--	--	--	**761**
	3	3/4/2021	In-Situ	--	--	--	--	--	--	**5,150**
	5	3/4/2021	In-Situ	--	--	--	--	--	--	2,990
	10	3/4/2021	In-Situ	--	--	--	--	--	--	41.5
S-6	0.5	1/20/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	13.6
	1	1/20/2021	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	6.52
S-7	0.5	1/20/2021	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	110
	1	1/20/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	32.7
S-8	0.5	1/20/2021	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<5.00
	1	1/20/2021	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	11.7
S-9	0.5	1/20/2021	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<4.99
	1	1/20/2021	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<4.99

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

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Salado Draw 24 CTB Produced Water Release
Lea County, New Mexico
North 32.022671 West -103.633424

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					**10**	**50**				**100/2,500**	**600/20,000**
BH-1	Bottom	4.1	3/2/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	15,200
BH-2	Bottom	4.1	3/2/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	8,080
BH-3	Bottom	4.1	3/2/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	19,400
BH-4	Bottom	4.1	3/2/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	6,560
BH-5	Bottom	4.1	3/2/2022	In-Situ	<0.00199	<0.00398	<50.0	110	<50.0	110	1,410
BH-6	Bottom	4.1	3/2/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	652
BH-7	Bottom	4.1	3/2/2022	In-Situ	<0.00199	0.00505	<49.9	<49.9	<49.9	<49.9	9,270
BH-8	Bottom	4.1	3/2/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	6,050
BH-9	Bottom	4.1	3/2/2022	In-Situ	<0.00200	0.00673	<49.9	<49.9	<49.9	<49.9	5,930
BH-10	Bottom	4.1	3/2/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	4,000
BH-11	Bottom	4.1	3/2/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	6,530
BH-12	Bottom	4.1	3/2/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	8,510
BH-13	Bottom	4.1	3/2/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	4,150
BH-14	Bottom	4.1	3/2/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	4,540
BH-15	Bottom	4.1	3/2/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	4,310
BH-16	Bottom	4.1	3/2/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	5,110
BH-17	Bottom	4.1	3/2/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	6,460
BH-18	Bottom	4.1	3/2/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	4,970
BH-19	Bottom	4.1	3/2/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	9,760
BH-20	Bottom	4.1	3/2/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	5,180
BH-21	Bottom	4.1	3/2/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	181
BH-22	Bottom	4.1	3/2/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	3,380
BH-23	Bottom	4.1	3/2/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	2,370
BH-24	Bottom	4.1	3/2/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	5,790
BH-25	Bottom	4.1	3/2/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	2,650
BH-26	Bottom	4.1	3/2/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	1,240
BH-27	Bottom	4.1	3/2/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	3,230
BH-28	Bottom	4.1	3/2/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,300
BH-29	Bottom	4.1	3/18/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	492
BH-30	Bottom	4.1	3/18/2022	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	59.7

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Salado Draw 24 CTB Produced Water Release
Lea County, New Mexico
North 32.022671 West -103.633424

SW-1	Sidewall	0 - 4.1	3/2/2022	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**4,310**
			3/18/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	308
SW-2	Sidewall	0 - 4.1	3/2/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	184
SW-3	Sidewall	0 - 4.1	3/2/2022	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**904**
			3/18/2022	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	156
SW-4	Sidewall	0 - 4.1	3/2/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	595
SW-5	Sidewall	0 - 4.1	3/2/2022	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**25,200**
			3/18/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	185
SW-6	Sidewall	0 - 4.1	3/2/2022	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**5,910**
			3/18/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	187
SW-7	Sidewall	0 - 4.1	3/2/2022	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	**1,380**
SW-8	Sidewall	0 - 4.1	3/2/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**4,800**
SW-9	Sidewall	0 - 4.1	3/2/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**906**
SW-10	Sidewall	0 - 4.1	3/2/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	215
Backfill-1	--	--	3/18/2022	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	3.51
Backfill-3	--	--	3/18/2022	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	4.05
Backfill-3	--	--	3/18/2022	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	3.58

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

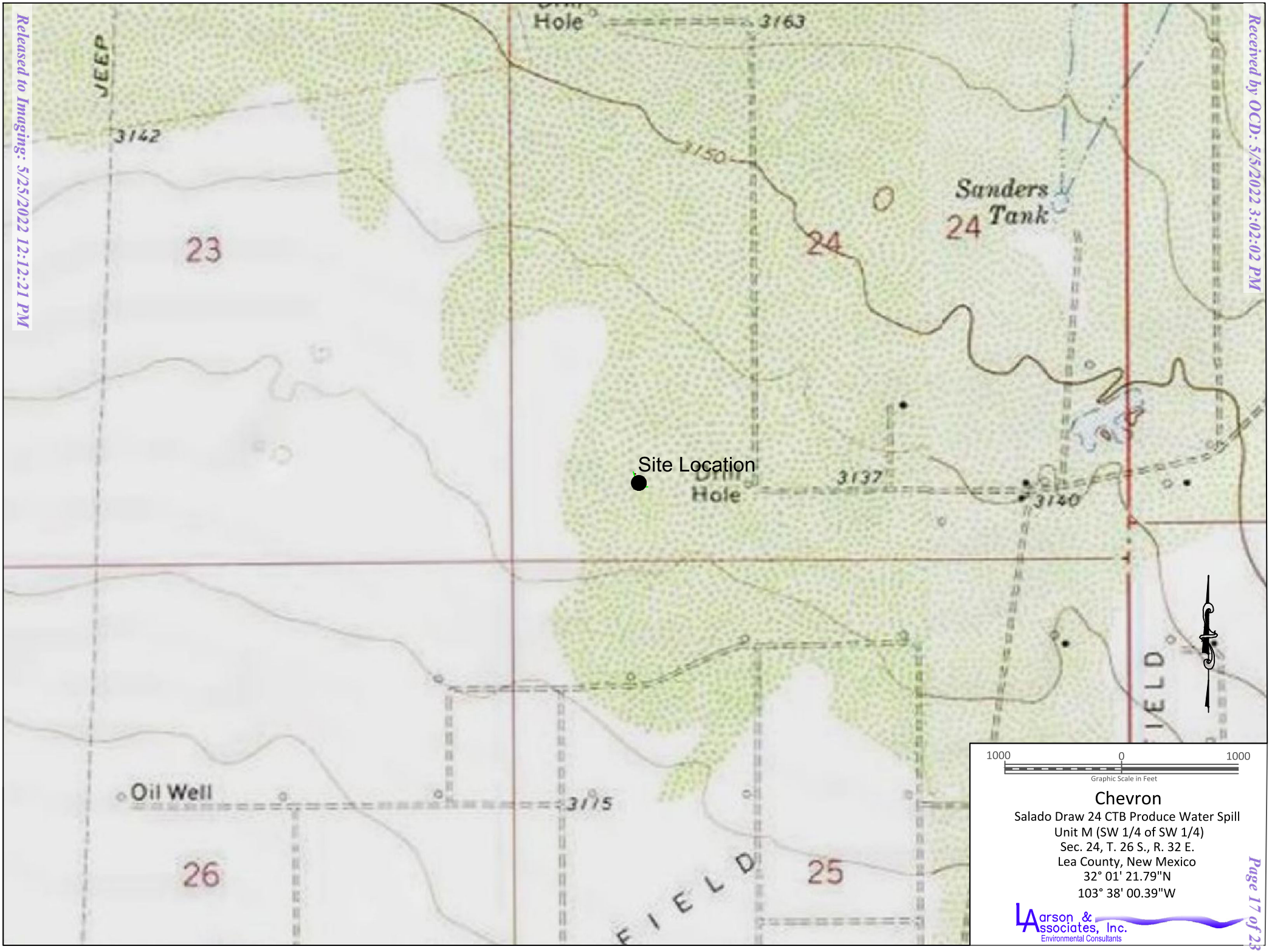

Figure 1 - Topographic Map

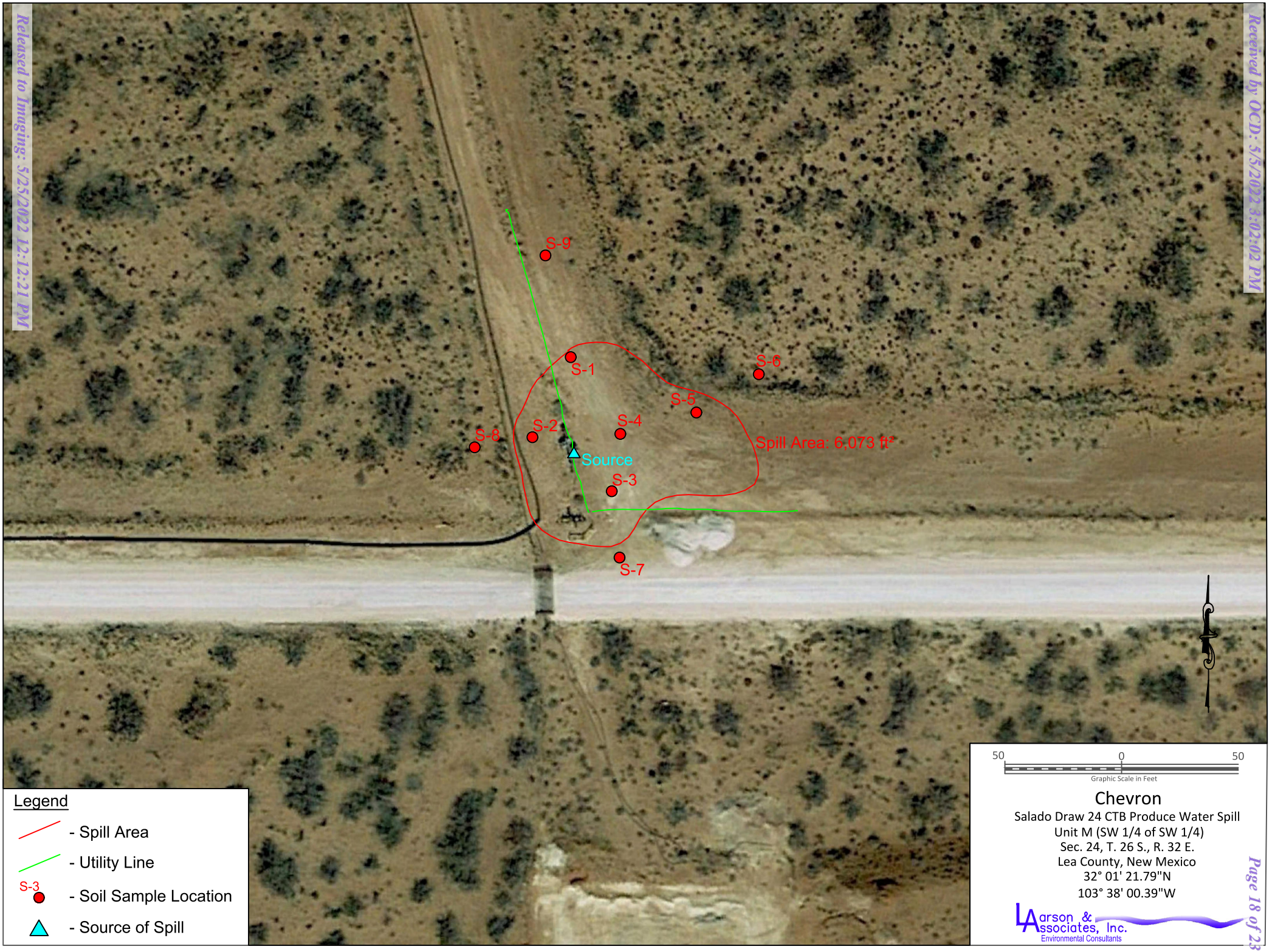

Figure 2 - Aerial Map

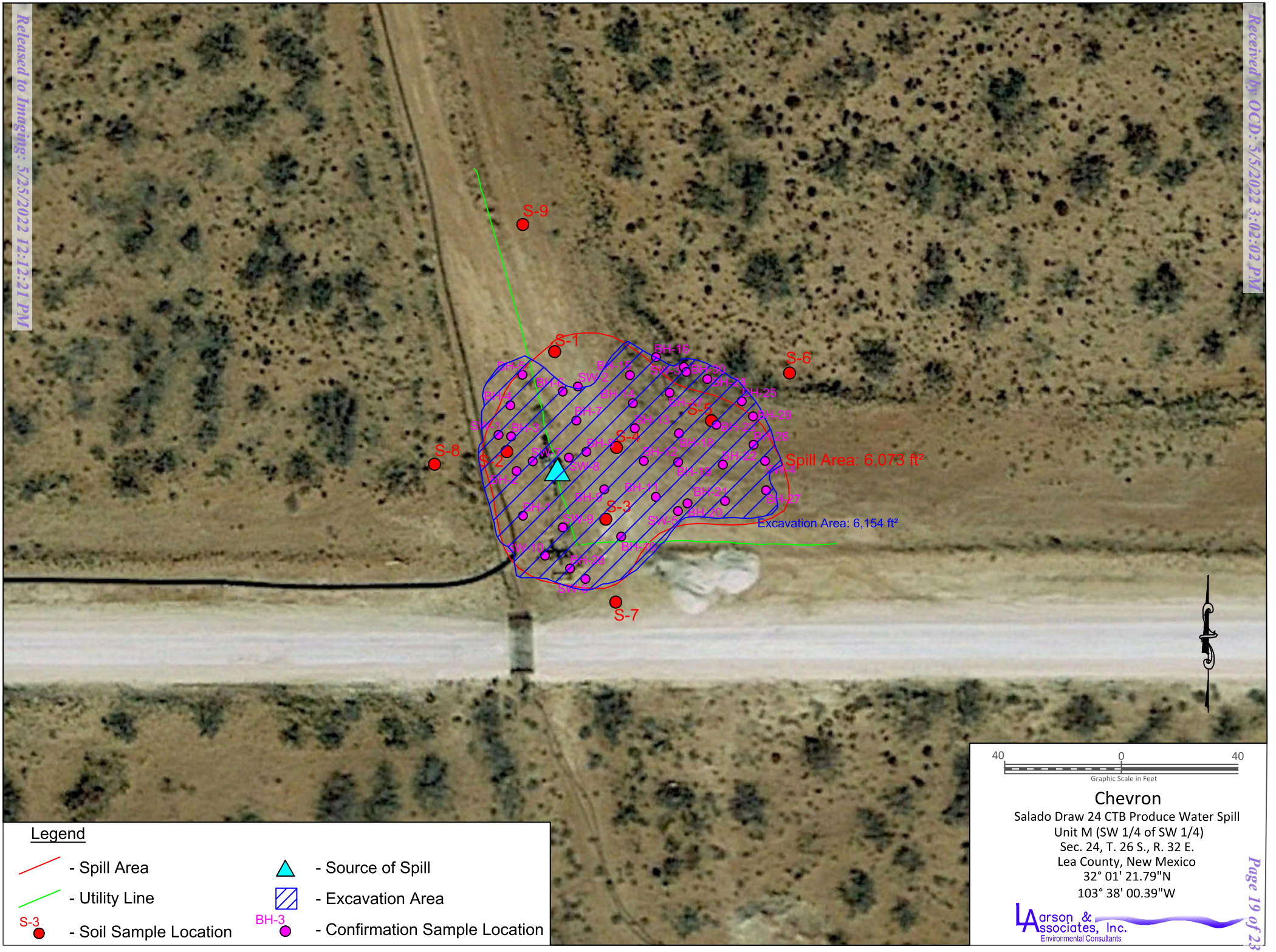

Figure 3 - Aerial Map Showing Excavation and Confirmation Sample Locations

Figure 4 - Aerial Map Showing Soil Boring Location

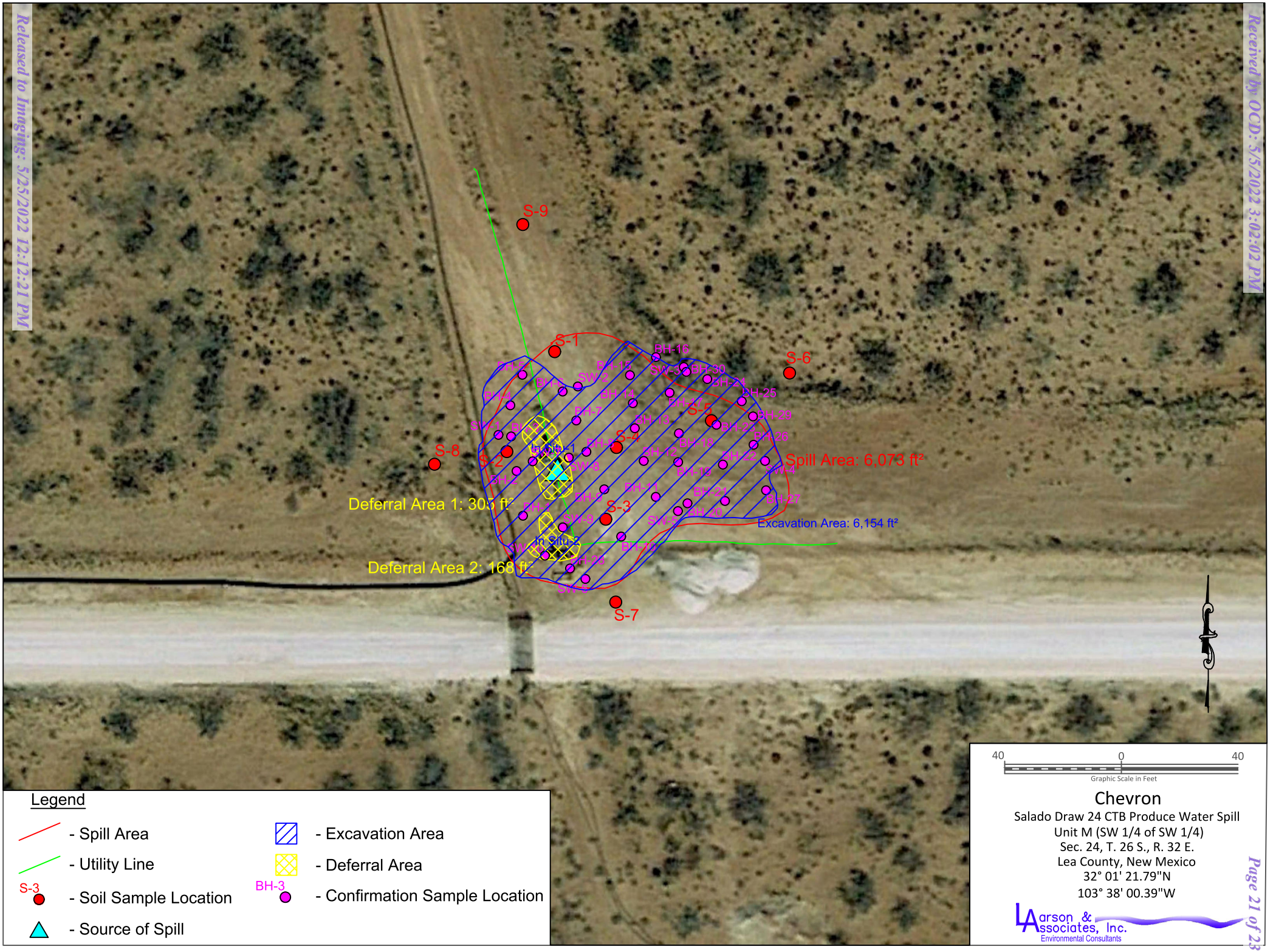

Figure 5 - Aerial Map Showing Deferral Area

Appendix A

Chevron Initial C-141

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

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Chevron U.S.A., Inc.	OGRID 4323
Contact Name Jessica Zemen	Contact Telephone 432-530-9187
Contact email jessicazemen@chevron.com	Incident # *(assigned by OCD)*
Contact mailing address 6301 Deauville Blvd. Midland, TX 79706	

Location of Release Source

Latitude 32.02162 Longitude -103.63290
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Salado Draw 24 TB	Site Type: Tank Battery
Date Release Discovered: 12/2/2020	API# *(if applicable):* N/A

Unit Letter	Section	Township	Range	County
M	24	26S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 123	Volume Recovered (bbls) 97
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A leak occurred on the 12" ball valve on water truck line from Salado Draw 24 Tank Battery to the Saltwater Disposal (SWD) 13. 123 bbls of produced water were released to land and 97 bbls of produced water were recovered.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Release greater than 25 bbls.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Jessica Zemen sent an email to EMNRD-OCD-District1spills@state.nm.us on Wednesday, December 2, 2020 at 6:33 PM.

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: _____Jessica Zemen_____ Title: _____HSE Environmental Compliance Specialist_____

Signature: Jessica K Zemen _____ Date: ____12/8/2020_____

email: _____jessicazemen@chevron.com_____ Telephone: ____432-530-9187_____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

All volumes in following table in barrels

Area	Standing Liquid	In Soil	dimensions / shape	Oil Volume	Water Volume
1		0.4167	36X60 Rectangle		24.05
2	0.25		36X60 Rectangle		96.18
3		0.4167	10X5 Rectangle		2.23
4	0.25		10X5 Rectangle		0.56
5					
6					
7					
8					
			Total Fluid	0	123

Appendix B

Karst Risk Potential


Medium
Salado Draw 24 CTB Prodcued Water Spill

Appendix C

Soil Boring Log

BORING RECORD

Start: 10:35 MDT
Finish: 15:15

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG
	0	Silty Sand, 5YR 5/4, Reddish Brown, Very Fine Grained Quartz Sand, Poorly Sorted, Dry	ML	
	5			
	10	Caliche, 2.5YR 8/3, Pink, Very Fine Grained, Poorly Sorted, Dry	Caliche	
	15			
	20			
	25	Silty Sand, 5YR 5/4, Reddish Brown, Fine Grained Quartz Sand with Caliche Clasts (~10mm), Poorly Sorted	ML	
	30	Caliche, 2.5YR 8/3, Pink, Very Fine Grained, Poorly Sorted with Subangular Clasts (~10mm)	Caliche	
	35			
	40	Silty Sand, 5YR 6/4, Light Reddish Brown, Very Fine Grained Quartz Sand, Poorly Sorted with Subangular Caliche Clasts (~10mm)	ML	
	45			
	50			
	55			
	60			

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

SAMPLE NUMBER	PID READING	RECOVERY	DEPTH
1			7
2			25
3			30
4			39

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/ 19-0180-01
HOLE DIAMETER : 2"
LOCATION : Salado Draw 24 CTB
LAI GEOLOGIST : E. Chavez
DRILLING CONTRACTOR : Scarborough
DRILLING METHOD : Air Rotary

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 04-14-2020

BORING NUMBER : SB-01

BORING RECORD

Start: 10:35 MDT
Finish: 15:15

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING (PPM X 1)	SAMPLE NUMBER	SAMPLE PID READING	SAMPLE RECOVERY	SAMPLE DEPTH	REMARKS BACKGROUND PID READING
	65	Silty Sand, 5YR 5/6, Yellowish Red, Very Fine Grained, Poorly Sorted with Subangular Caliche and Black Chert Clasts (~0.5mm)	ML			5			66	SOIL : PPM SOIL : PPM
	70								70	
	75								75	
	80								80	
	85								85	
	90	Silty Sand, 5YR 4/6, Yellowish Red, Fine Grained, Poorly Sorted with Subangular Caliche (~2mm)	ML						90	
	95								95	
	100								100	
		TD:101.5' *Dry After 72 Hours*				6			101.5	
	105								105	

PID READING scale: 2 4 6 8 10 12 14 16 18

- 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

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 04-14-2020

BORING NUMBER : SB-01

JOB NUMBER : Chevron/ 19-0180-01
HOLE DIAMETER : 2"
LOCATION : Salado Draw 24 CTB
LAI GEOLOGIST : E. Chavez
DRILLING CONTRACTOR : Scarborough
DRILLING METHOD : Air Rotary

Appendix D

NMOCD Communications

From: Hensley, Chad, EMNRD
To: Mark Larson; Amy Barnhill; Robert Nelson
Subject: RE: [EXTERNAL] Salado Draw 24 CTB Produced Water Spill (nAPP2034962750) Excavation Backfill Notification
Date: Monday, March 21, 2022 4:32:02 PM
Attachments: image001.png

Approved for backfill.

NOTE: The OCD requires a copy of all correspondence relative to remedial projects be included in all proposal and/or final closure reports. Correspondence required to be included in reports may include, but not necessarily limited to, extension requests, liner inspection notifications, sample event notifications, spill/release/fire notifications, and variance requests. This will allow for notifications and requests to become a documented part of the incident file.

Cheers,

Chad Hensley ● Environmental Science & Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
811 First St. | Artesia, NM 88210
Office: 575.748.1283 | Cell: 575-703-1723
chad.hensley@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Daniel St. Germain <dstgermain@laenvironmental.com>
Sent: Monday, March 21, 2022 3:08 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Cc: Mark Larson <Mark@laenvironmental.com>; Amy Barnhill (abarnhill@chevron.com) <abarnhill@chevron.com>; Robert Nelson <rnelson@laenvironmental.com>
Subject: [EXTERNAL] Salado Draw 24 CTB Produced Water Spill (nAPP2034962750) Excavation Backfill Notification

Hello Mr. Hamlet and Ms. Venegas,

Larson & Associates, Inc. (LAI), on behalf of Chevron USA, submits the attached confirmation (post remediation) laboratory analytical data and sample location map to the New Mexico Oil Conservation Division (OCD) District I to provide two (2) business days notification prior to backfilling the excavation at the Salado Draw 24 CTB Produced Water Spill (nAPP2034962750) in Lea County, New Mexico. A deferral for sidewall samples SW-7 through SW-9 has been requested based on proximity to production equipment. Please feel free to contact Amy Barnhill with Chevron at (432) 687-7108 or ABarnhill@chevron.com, Mark Larson (432) 556-8656 or mark@laenvironmental.com, or me with any questions or concerns.

Thank you,

Daniel St. Germain
Geologist
Office: (432) 687-0901
Cell: (432) 664-5357
dstgermain@laenvironmental.com

Larson & Associates, Inc.
Environmental Consultants

Appendix E

Laboratory Reports

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Certificate of Analysis Summary 685471

Larson and Associates, Inc., Midland, TX

Project Name: Salado Draw 24 TB

Project Id: 21-0100-01
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 01.21.2021 08:20
Report Date: 01.28.2021 13:02
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	685471-001		685471-002		685471-003		685471-004		685471-005		685471-006	
	Field Id:	S-1 .5'		S-1 1'		S-2 .5'		S-2 1'		S-3 .5'		S-3 1'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	01.20.2021 11:12		01.20.2021 11:20		01.20.2021 10:56		01.20.2021 11:00		01.20.2021 11:11		01.20.2021 11:14	
BTEX by EPA 8021B	***Extracted:***	01.21.2021 17:15		01.21.2021 17:15		01.21.2021 17:15		01.26.2021 08:00		01.26.2021 08:00		01.26.2021 08:00	
	Analyzed:	01.22.2021 14:37		01.22.2021 14:58		01.22.2021 15:19		01.26.2021 18:33		01.26.2021 20:15		01.26.2021 20:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Toluene		<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Ethylbenzene		<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
m,p-Xylenes		<0.00396	0.00396	<0.00398	0.00398	<0.00398	0.00398	<0.00402	0.00402	<0.00402	0.00402	<0.00401	0.00401
o-Xylene		<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Total Xylenes		<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Total BTEX		<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	01.21.2021 16:30		01.21.2021 16:30		01.21.2021 16:30		01.21.2021 16:30		01.21.2021 16:30		01.21.2021 16:30	
	Analyzed:	01.21.2021 18:39		01.21.2021 18:54		01.21.2021 19:00		01.21.2021 19:05		01.21.2021 19:10		01.21.2021 19:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5.74	5.03	9.01	5.04	3380	25.1	3780	25.0	5400	50.1	5030	49.6
TPH by SW8015 Mod	***Extracted:***	01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00	
	Analyzed:	01.22.2021 12:50		01.22.2021 13:56		01.22.2021 14:18		01.22.2021 14:39		01.22.2021 15:01		01.22.2021 15:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9
Total TPH		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9

BRL - Below Reporting Limit

Holly Taylor

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

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Certificate of Analysis Summary 685471

Larson and Associates, Inc., Midland, TX

Project Name: Salado Draw 24 TB

Project Id: 21-0100-01
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 01.21.2021 08:20
Report Date: 01.28.2021 13:02
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	685471-007		685471-008		685471-009		685471-010		685471-011		685471-012	
	Field Id:	S-4 .5'		S-4 1'		S-5 .5'		S-5 1'		S-6 .5'		S-6 1'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	01.20.2021 10:55		01.20.2021 11:00		01.20.2021 11:02		01.20.2021 11:05		01.20.2021 11:06		01.20.2021 11:08	
BTEX by EPA 8021B	***Extracted:***	01.26.2021 08:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00	
	Analyzed:	01.26.2021 21:07		01.22.2021 20:03		01.22.2021 20:23		01.22.2021 20:44		01.22.2021 21:04		01.22.2021 21:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00399	0.00399	<0.00399	0.00399	<0.00398	0.00398	<0.00400	0.00400	<0.00401	0.00401
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	01.21.2021 16:30		01.21.2021 16:30		01.21.2021 16:30		01.21.2021 16:30		01.21.2021 16:30		01.21.2021 16:30	
	Analyzed:	01.21.2021 19:31		01.21.2021 19:36		01.21.2021 19:41		01.21.2021 19:46		01.21.2021 19:52		01.21.2021 20:07	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2820	24.9	3750	24.8	3750	25.2	3080	25.3	13.6	5.00	6.52	4.99
TPH by SW8015 Mod	***Extracted:***	01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00	
	Analyzed:	01.22.2021 15:44		01.22.2021 16:16		01.22.2021 16:37		01.22.2021 16:59		01.22.2021 17:44		01.22.2021 18:06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	64.6	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Total TPH		<50.0	50.0	<50.0	50.0	64.6	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9

BRL - Below Reporting Limit

Holly Taylor

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

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Certificate of Analysis Summary 685471

Larson and Associates, Inc., Midland, TX

Project Name: Salado Draw 24 TB

Project Id: 21-0100-01
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 01.21.2021 08:20
Report Date: 01.28.2021 13:02
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	685471-013		685471-014		685471-015		685471-016		685471-017		685471-018	
	Field Id:	S-7 .5'		S-7 1'		S-8 .5'		S-8 1'		S-9 .5'		S-9 1'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	01.20.2021 11:19		01.20.2021 11:21		01.20.2021 11:04		01.20.2021 11:06		01.20.2021 11:22		01.20.2021 11:25	
BTEX by EPA 8021B	***Extracted:***	01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00	
	Analyzed:	01.22.2021 21:45		01.22.2021 22:06		01.22.2021 22:26		01.22.2021 22:46		01.22.2021 23:07		01.23.2021 00:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200
Toluene		<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200
Ethylbenzene		<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200
m,p-Xylenes		<0.00402	0.00402	<0.00401	0.00401	<0.00402	0.00402	<0.00403	0.00403	<0.00404	0.00404	<0.00401	0.00401
o-Xylene		<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200
Total Xylenes		<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200
Total BTEX		<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	01.21.2021 16:30		01.21.2021 16:30		01.21.2021 16:30		01.21.2021 16:30		01.21.2021 16:30		01.21.2021 16:30	
	Analyzed:	01.21.2021 20:12		01.21.2021 20:28		01.22.2021 09:05		01.22.2021 09:10		01.21.2021 20:43		01.21.2021 20:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		110	4.96	32.7	4.99	<5.00	5.00	11.7	4.97	<4.99	4.99	<4.99	4.99
TPH by SW8015 Mod	***Extracted:***	01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00		01.22.2021 12:00	
	Analyzed:	01.22.2021 18:27		01.22.2021 18:49		01.22.2021 19:10		01.22.2021 19:31		01.22.2021 19:53		01.22.2021 20:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Total TPH		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0

BRL - Below Reporting Limit

Holly Taylor

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Analytical Report 685471

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Salado Draw 24 TB

21-0100-01

01.28.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

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01.28.2021

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

Reference: Eurofins Xenco, LLC Report No(s): **685471**
Salado Draw 24 TB
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) 685471. 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. 685471 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

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Sample Cross Reference 685471

Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 .5'	S	01.20.2021 11:12		685471-001
S-1 1'	S	01.20.2021 11:20		685471-002
S-2 .5'	S	01.20.2021 10:56		685471-003
S-2 1'	S	01.20.2021 11:00		685471-004
S-3 .5'	S	01.20.2021 11:11		685471-005
S-3 1'	S	01.20.2021 11:14		685471-006
S-4 .5'	S	01.20.2021 10:55		685471-007
S-4 1'	S	01.20.2021 11:00		685471-008
S-5 .5'	S	01.20.2021 11:02		685471-009
S-5 1'	S	01.20.2021 11:05		685471-010
S-6 .5'	S	01.20.2021 11:06		685471-011
S-6 1'	S	01.20.2021 11:08		685471-012
S-7 .5'	S	01.20.2021 11:19		685471-013
S-7 1'	S	01.20.2021 11:21		685471-014
S-8 .5'	S	01.20.2021 11:04		685471-015
S-8 1'	S	01.20.2021 11:06		685471-016
S-9 .5'	S	01.20.2021 11:22		685471-017
S-9 1'	S	01.20.2021 11:25		685471-018

CASE NARRATIVE

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Client Name: Larson and Associates, Inc.

Project Name: Salado Draw 24 TB

Project ID: *21-0100-01*
Work Order Number(s): *685471*

Report Date: *01.28.2021*
Date Received: *01.21.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3148612 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7719781-1-BLK.

Batch: LBA-3148943 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered below QC limits . Samples affected are: 7720018-1-BLK.

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Certificate of Analytical Results 685471

Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id:	**S-1 .5'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-001	Date Collected:	01.20.2021 11:12		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.21.2021 16:30	% Moisture:	
Seq Number:	3148568			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.74**	5.03	mg/kg	01.21.2021 18:39		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148775			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.22.2021 12:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.22.2021 12:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.22.2021 12:50	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.22.2021 12:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	01.22.2021 12:50	
o-Terphenyl	84-15-1	112	%	70-130	01.22.2021 12:50	

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Certificate of Analytical Results 685471

Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id:	**S-1 .5'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-001	Date Collected:	01.20.2021 11:12		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.21.2021 17:15	% Moisture:	
Seq Number:	3148612			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.22.2021 14:37	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.22.2021 14:37	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.22.2021 14:37	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	01.22.2021 14:37	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.22.2021 14:37	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.22.2021 14:37	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.22.2021 14:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.22.2021 14:37	
1,4-Difluorobenzene	540-36-3	112	%	70-130	01.22.2021 14:37	

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Certificate of Analytical Results 685471

Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id: **S-1 1'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-002 Date Collected: 01.20.2021 11:20

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.21.2021 16:30 % Moisture:

Seq Number: 3148568 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.01**	5.04	mg/kg	01.21.2021 18:54		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148775 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.22.2021 13:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.22.2021 13:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.22.2021 13:56	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.22.2021 13:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	01.22.2021 13:56	
o-Terphenyl	84-15-1	117	%	70-130	01.22.2021 13:56	

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Certificate of Analytical Results 685471

Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id:	**S-1 1'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-002	Date Collected:	01.20.2021 11:20		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.21.2021 17:15	% Moisture:	
Seq Number:	3148612			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.22.2021 14:58	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.22.2021 14:58	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.22.2021 14:58	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.22.2021 14:58	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.22.2021 14:58	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.22.2021 14:58	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.22.2021 14:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	01.22.2021 14:58	
1,4-Difluorobenzene	540-36-3	107	%	70-130	01.22.2021 14:58	

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Certificate of Analytical Results 685471

Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id:	**S-2 .5'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-003	Date Collected:	01.20.2021 10:56		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.21.2021 16:30	% Moisture:	
Seq Number:	3148568			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3380**	25.1	mg/kg	01.21.2021 19:00		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148775			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.22.2021 14:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.22.2021 14:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.22.2021 14:18	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.22.2021 14:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	01.22.2021 14:18	
o-Terphenyl	84-15-1	113	%	70-130	01.22.2021 14:18	

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Certificate of Analytical Results 685471

Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id:	**S-2 .5'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-003	Date Collected:	01.20.2021 10:56		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.21.2021 17:15	% Moisture:	
Seq Number:	3148612			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.22.2021 15:19	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.22.2021 15:19	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.22.2021 15:19	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.22.2021 15:19	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.22.2021 15:19	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.22.2021 15:19	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.22.2021 15:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.22.2021 15:19	
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.22.2021 15:19	

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Certificate of Analytical Results 685471

Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id: **S-2 1'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-004 Date Collected: 01.20.2021 11:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.21.2021 16:30 % Moisture:

Seq Number: 3148568 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3780**	25.0	mg/kg	01.21.2021 19:05		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148775 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.22.2021 14:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.22.2021 14:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.22.2021 14:39	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.22.2021 14:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	01.22.2021 14:39	
o-Terphenyl	84-15-1	119	%	70-130	01.22.2021 14:39	

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Certificate of Analytical Results 685471

Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id:	**S-2 1'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-004	Date Collected:	01.20.2021 11:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.26.2021 08:00	% Moisture:	
Seq Number:	3148943			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.26.2021 18:33	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.26.2021 18:33	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.26.2021 18:33	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.26.2021 18:33	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.26.2021 18:33	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.26.2021 18:33	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.26.2021 18:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	78	%	70-130	01.26.2021 18:33	
1,4-Difluorobenzene	540-36-3	83	%	70-130	01.26.2021 18:33	

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Certificate of Analytical Results 685471

Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id:	**S-3 .5'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-005	Date Collected:	01.20.2021 11:11		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.21.2021 16:30	% Moisture:	
Seq Number:	3148568			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5400**	50.1	mg/kg	01.21.2021 19:10		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148775			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.22.2021 15:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.22.2021 15:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.22.2021 15:01	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.22.2021 15:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	01.22.2021 15:01	
o-Terphenyl	84-15-1	121	%	70-130	01.22.2021 15:01	

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Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id:	**S-3 .5'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-005	Date Collected:	01.20.2021 11:11		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.26.2021 08:00	% Moisture:	
Seq Number:	3148943			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.26.2021 20:15	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.26.2021 20:15	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.26.2021 20:15	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.26.2021 20:15	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.26.2021 20:15	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.26.2021 20:15	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.26.2021 20:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	01.26.2021 20:15	
1,4-Difluorobenzene	540-36-3	92	%	70-130	01.26.2021 20:15	

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Salado Draw 24 TB

Sample Id:	**S-3 1'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-006	Date Collected:	01.20.2021 11:14		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.21.2021 16:30	% Moisture:	
Seq Number:	3148568			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5030**	49.6	mg/kg	01.21.2021 19:26		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148775			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.22.2021 15:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.22.2021 15:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.22.2021 15:23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.22.2021 15:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	01.22.2021 15:23	
o-Terphenyl	84-15-1	120	%	70-130	01.22.2021 15:23	

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Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id:	**S-3 1'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-006	Date Collected:	01.20.2021 11:14		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.26.2021 08:00	% Moisture:	
Seq Number:	3148943			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.26.2021 20:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.26.2021 20:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.26.2021 20:41	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.26.2021 20:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.26.2021 20:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.26.2021 20:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.26.2021 20:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	01.26.2021 20:41	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.26.2021 20:41	

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Salado Draw 24 TB

Sample Id: **S-4 .5'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-007 Date Collected: 01.20.2021 10:55

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.21.2021 16:30 % Moisture:

Seq Number: 3148568 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2820**	24.9	mg/kg	01.21.2021 19:31		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148775 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.22.2021 15:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.22.2021 15:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.22.2021 15:44	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.22.2021 15:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	01.22.2021 15:44	
o-Terphenyl	84-15-1	116	%	70-130	01.22.2021 15:44	

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Salado Draw 24 TB

Sample Id:	**S-4 .5'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-007	Date Collected:	01.20.2021 10:55		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.26.2021 08:00	% Moisture:	
Seq Number:	3148943			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.26.2021 21:07	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.26.2021 21:07	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.26.2021 21:07	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.26.2021 21:07	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.26.2021 21:07	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.26.2021 21:07	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.26.2021 21:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.26.2021 21:07	
4-Bromofluorobenzene	460-00-4	106	%	70-130	01.26.2021 21:07	

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Salado Draw 24 TB

Sample Id: **S-4 1'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-008 Date Collected: 01.20.2021 11:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.21.2021 16:30 % Moisture:

Seq Number: 3148568 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3750**	24.8	mg/kg	01.21.2021 19:36		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148775 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.22.2021 16:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.22.2021 16:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.22.2021 16:16	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.22.2021 16:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	01.22.2021 16:16	
o-Terphenyl	84-15-1	119	%	70-130	01.22.2021 16:16	

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Salado Draw 24 TB

Sample Id:	**S-4 1'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-008	Date Collected:	01.20.2021 11:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148704			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.22.2021 20:03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.22.2021 20:03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.22.2021 20:03	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.22.2021 20:03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.22.2021 20:03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.22.2021 20:03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.22.2021 20:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	01.22.2021 20:03	
1,4-Difluorobenzene	540-36-3	97	%	70-130	01.22.2021 20:03	

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Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id:	**S-5 .5'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-009	Date Collected:	01.20.2021 11:02		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.21.2021 16:30	% Moisture:	
Seq Number:	3148568			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3750**	25.2	mg/kg	01.21.2021 19:41		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148775			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.22.2021 16:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	**64.6**	49.9	mg/kg	01.22.2021 16:37		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.22.2021 16:37	U	1
Total TPH	PHC635	**64.6**	49.9	mg/kg	01.22.2021 16:37		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	01.22.2021 16:37	
o-Terphenyl	84-15-1	117	%	70-130	01.22.2021 16:37	

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Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id:	**S-5 .5'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-009	Date Collected:	01.20.2021 11:02		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148704			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.22.2021 20:23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.22.2021 20:23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.22.2021 20:23	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.22.2021 20:23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.22.2021 20:23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.22.2021 20:23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.22.2021 20:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.22.2021 20:23	
4-Bromofluorobenzene	460-00-4	97	%	70-130	01.22.2021 20:23	

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Salado Draw 24 TB

Sample Id: **S-5 1'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-010 Date Collected: 01.20.2021 11:05

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.21.2021 16:30 % Moisture:

Seq Number: 3148568 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3080**	25.3	mg/kg	01.21.2021 19:46		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148775 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.22.2021 16:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.22.2021 16:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.22.2021 16:59	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.22.2021 16:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	01.22.2021 16:59	
o-Terphenyl	84-15-1	116	%	70-130	01.22.2021 16:59	

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Salado Draw 24 TB

Sample Id:	**S-5 1'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-010	Date Collected:	01.20.2021 11:05		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148704			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.22.2021 20:44	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.22.2021 20:44	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.22.2021 20:44	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.22.2021 20:44	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.22.2021 20:44	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.22.2021 20:44	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.22.2021 20:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.22.2021 20:44	
4-Bromofluorobenzene	460-00-4	104	%	70-130	01.22.2021 20:44	

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Salado Draw 24 TB

Sample Id: **S-6 .5'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-011 Date Collected: 01.20.2021 11:06

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.21.2021 16:30 % Moisture:

Seq Number: 3148568 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.6**	5.00	mg/kg	01.21.2021 19:52		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148775 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.22.2021 17:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.22.2021 17:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.22.2021 17:44	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.22.2021 17:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	01.22.2021 17:44	
o-Terphenyl	84-15-1	112	%	70-130	01.22.2021 17:44	

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Salado Draw 24 TB

Sample Id:	**S-6 .5'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-011	Date Collected:	01.20.2021 11:06		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148704			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.22.2021 21:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.22.2021 21:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.22.2021 21:04	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.22.2021 21:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.22.2021 21:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.22.2021 21:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.22.2021 21:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	01.22.2021 21:04	
1,4-Difluorobenzene	540-36-3	92	%	70-130	01.22.2021 21:04	

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Certificate of Analytical Results 685471

Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id: **S-6 1'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-012 Date Collected: 01.20.2021 11:08

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.21.2021 16:30 % Moisture:

Seq Number: 3148568 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6.52**	4.99	mg/kg	01.21.2021 20:07		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148775 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.22.2021 18:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.22.2021 18:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.22.2021 18:06	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.22.2021 18:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	01.22.2021 18:06	
o-Terphenyl	84-15-1	115	%	70-130	01.22.2021 18:06	

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Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id:	**S-6 1'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-012	Date Collected:	01.20.2021 11:08		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148704			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.22.2021 21:25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.22.2021 21:25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.22.2021 21:25	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.22.2021 21:25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.22.2021 21:25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.22.2021 21:25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.22.2021 21:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	01.22.2021 21:25	
4-Bromofluorobenzene	460-00-4	100	%	70-130	01.22.2021 21:25	

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Larson and Associates, Inc., Midland, TX

Salado Draw 24 TB

Sample Id: **S-7 .5'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-013 Date Collected: 01.20.2021 11:19

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.21.2021 16:30 % Moisture:

Seq Number: 3148568 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**110**	4.96	mg/kg	01.21.2021 20:12		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148775 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.22.2021 18:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.22.2021 18:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.22.2021 18:27	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.22.2021 18:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	01.22.2021 18:27	
o-Terphenyl	84-15-1	111	%	70-130	01.22.2021 18:27	

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Salado Draw 24 TB

Sample Id:	**S-7 .5'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-013	Date Collected:	01.20.2021 11:19		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148704			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.22.2021 21:45	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.22.2021 21:45	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.22.2021 21:45	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.22.2021 21:45	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.22.2021 21:45	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.22.2021 21:45	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.22.2021 21:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	70-130	01.22.2021 21:45	
4-Bromofluorobenzene	460-00-4	114	%	70-130	01.22.2021 21:45	

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Salado Draw 24 TB

Sample Id: **S-7 1'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-014 Date Collected: 01.20.2021 11:21

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.21.2021 16:30 % Moisture:

Seq Number: 3148568 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**32.7**	4.99	mg/kg	01.21.2021 20:28		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148775 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.22.2021 18:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.22.2021 18:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.22.2021 18:49	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.22.2021 18:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	01.22.2021 18:49	
o-Terphenyl	84-15-1	115	%	70-130	01.22.2021 18:49	

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Salado Draw 24 TB

Sample Id:	**S-7 1'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-014	Date Collected:	01.20.2021 11:21		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148704			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.22.2021 22:06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.22.2021 22:06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.22.2021 22:06	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.22.2021 22:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.22.2021 22:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.22.2021 22:06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.22.2021 22:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	01.22.2021 22:06	
1,4-Difluorobenzene	540-36-3	97	%	70-130	01.22.2021 22:06	

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Salado Draw 24 TB

Sample Id: **S-8 .5'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-015 Date Collected: 01.20.2021 11:04

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.21.2021 16:30 % Moisture:

Seq Number: 3148568 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	01.22.2021 09:05	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148775 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.22.2021 19:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.22.2021 19:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.22.2021 19:10	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.22.2021 19:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	01.22.2021 19:10	
o-Terphenyl	84-15-1	110	%	70-130	01.22.2021 19:10	

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Salado Draw 24 TB

Sample Id: **S-8 .5'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-015 Date Collected: 01.20.2021 11:04

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

Tech: MNR

Analyst: MNR Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148704 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.22.2021 22:26	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.22.2021 22:26	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.22.2021 22:26	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.22.2021 22:26	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.22.2021 22:26	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.22.2021 22:26	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.22.2021 22:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	01.22.2021 22:26	
4-Bromofluorobenzene	460-00-4	97	%	70-130	01.22.2021 22:26	

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Salado Draw 24 TB

Sample Id: **S-8 1'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-016 Date Collected: 01.20.2021 11:06

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.21.2021 16:30 % Moisture:

Seq Number: 3148568 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11.7**	4.97	mg/kg	01.22.2021 09:10		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148775 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.22.2021 19:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.22.2021 19:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.22.2021 19:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.22.2021 19:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	01.22.2021 19:31	
o-Terphenyl	84-15-1	107	%	70-130	01.22.2021 19:31	

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Salado Draw 24 TB

Sample Id:	**S-8 1'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-016	Date Collected:	01.20.2021 11:06		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148704			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.22.2021 22:46	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.22.2021 22:46	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.22.2021 22:46	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.22.2021 22:46	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.22.2021 22:46	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.22.2021 22:46	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.22.2021 22:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	01.22.2021 22:46	
1,4-Difluorobenzene	540-36-3	95	%	70-130	01.22.2021 22:46	

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Salado Draw 24 TB

Sample Id: **S-9 .5'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-017 Date Collected: 01.20.2021 11:22

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.21.2021 16:30 % Moisture:

Seq Number: 3148568 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	01.21.2021 20:43	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148775 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.22.2021 19:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.22.2021 19:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.22.2021 19:53	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.22.2021 19:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	01.22.2021 19:53	
o-Terphenyl	84-15-1	106	%	70-130	01.22.2021 19:53	

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Salado Draw 24 TB

Sample Id:	**S-9 .5'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-017	Date Collected:	01.20.2021 11:22		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148704			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.22.2021 23:07	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.22.2021 23:07	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.22.2021 23:07	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	01.22.2021 23:07	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.22.2021 23:07	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.22.2021 23:07	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.22.2021 23:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.22.2021 23:07	
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.22.2021 23:07	

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Salado Draw 24 TB

Sample Id: **S-9 1'** Matrix: Soil Date Received:01.21.2021 08:20

Lab Sample Id: 685471-018 Date Collected: 01.20.2021 11:25

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.21.2021 16:30 % Moisture:

Seq Number: 3148568 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	01.21.2021 20:49	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.22.2021 12:00 % Moisture:

Seq Number: 3148775 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.22.2021 20:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.22.2021 20:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.22.2021 20:15	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.22.2021 20:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	01.22.2021 20:15	
o-Terphenyl	84-15-1	106	%	70-130	01.22.2021 20:15	

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Salado Draw 24 TB

Sample Id:	**S-9 1'**	Matrix:	Soil	Date Received:	01.21.2021 08:20
Lab Sample Id:	685471-018	Date Collected:	01.20.2021 11:25		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.22.2021 12:00	% Moisture:	
Seq Number:	3148704			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.23.2021 00:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.23.2021 00:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.23.2021 00:30	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.23.2021 00:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.23.2021 00:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.23.2021 00:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.23.2021 00:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.23.2021 00:30	
4-Bromofluorobenzene	460-00-4	104	%	70-130	01.23.2021 00:30	

eurofins | Environment Testing Xenco

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

Larson and Associates, Inc.

Salado Draw 24 TB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148568 — Matrix: Solid — Date Prep: 01.21.2021
MB Sample Id: 7719739-1-BLK — LCS Sample Id: 7719739-1-BKS — LCSD Sample Id: 7719739-1-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	263	105	263	105	90-110	0	20	mg/kg	01.21.2021 18:28	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148568 — Matrix: Soil — Date Prep: 01.21.2021
Parent Sample Id: 685471-001 — MS Sample Id: 685471-001 S — MSD Sample Id: 685471-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.74	252	269	104	269	104	90-110	0	20	mg/kg	01.21.2021 18:44	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148568 — Matrix: Soil — Date Prep: 01.21.2021
Parent Sample Id: 685471-011 — MS Sample Id: 685471-011 S — MSD Sample Id: 685471-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.6	250	276	105	276	105	90-110	0	20	mg/kg	01.21.2021 19:57	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148775 — Matrix: Solid — Date Prep: 01.22.2021
MB Sample Id: 7719880-1-BLK — LCS Sample Id: 7719880-1-BKS — LCSD Sample Id: 7719880-1-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	964	96	1140	114	70-130	17	20	mg/kg	01.22.2021 12:06	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1170	117	70-130	11	20	mg/kg	01.22.2021 12:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		106		118		70-130	%	01.22.2021 12:06
o-Terphenyl	115		110		122		70-130	%	01.22.2021 12:06

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148775 — Matrix: Solid — Date Prep: 01.22.2021
MB Sample Id: 7719880-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.22.2021 11:44	

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

Larson and Associates, Inc.

Salado Draw 24 TB

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148775 — Matrix: Soil — Date Prep: 01.22.2021
Parent Sample Id: 685471-001 — MS Sample Id: 685471-001 S — MSD Sample Id: 685471-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1120	112	1060	106	70-130	6	20	mg/kg	01.22.2021 13:12	
Diesel Range Organics (DRO)	<49.9	997	1100	110	1110	111	70-130	1	20	mg/kg	01.22.2021 13:12	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		113		70-130	%	01.22.2021 13:12
o-Terphenyl	110		114		70-130	%	01.22.2021 13:12

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3148612 — Matrix: Solid — Date Prep: 01.21.2021
MB Sample Id: 7719781-1-BLK — LCS Sample Id: 7719781-1-BKS — LCSD Sample Id: 7719781-1-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	0.115	115	0.112	112	70-130	3	35	mg/kg	01.22.2021 05:16	
Toluene	<0.00200	0.100	0.111	111	0.108	108	70-130	3	35	mg/kg	01.22.2021 05:16	
Ethylbenzene	<0.00200	0.100	0.114	114	0.107	107	70-130	6	35	mg/kg	01.22.2021 05:16	
m,p-Xylenes	<0.00400	0.200	0.206	103	0.199	100	70-130	3	35	mg/kg	01.22.2021 05:16	
o-Xylene	<0.00200	0.100	0.110	110	0.106	106	70-130	4	35	mg/kg	01.22.2021 05:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		102		104		70-130	%	01.22.2021 05:16
4-Bromofluorobenzene	134	**	103		100		70-130	%	01.22.2021 05:16

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3148704 — Matrix: Solid — Date Prep: 01.22.2021
MB Sample Id: 7719830-1-BLK — LCS Sample Id: 7719830-1-BKS — LCSD Sample Id: 7719830-1-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	0.108	108	0.110	110	70-130	2	35	mg/kg	01.22.2021 17:42	
Toluene	<0.00200	0.100	0.103	103	0.104	104	70-130	1	35	mg/kg	01.22.2021 17:42	
Ethylbenzene	<0.00200	0.100	0.106	106	0.107	107	70-130	1	35	mg/kg	01.22.2021 17:42	
m,p-Xylenes	<0.00400	0.200	0.214	107	0.218	109	70-130	2	35	mg/kg	01.22.2021 17:42	
o-Xylene	<0.00200	0.100	0.104	104	0.107	107	70-130	3	35	mg/kg	01.22.2021 17:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		101		101		70-130	%	01.22.2021 17:42
4-Bromofluorobenzene	104		96		98		70-130	%	01.22.2021 17:42

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

Larson and Associates, Inc.

Salado Draw 24 TB

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3148943 Matrix: Solid Date Prep: 01.26.2021
MB Sample Id: 7720018-1-BLK LCS Sample Id: 7720018-1-BKS LCSD Sample Id: 7720018-1-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	0.0911	91	0.0933	93	70-130	2	35	mg/kg	01.26.2021 10:28	
Toluene	<0.00200	0.100	0.0887	89	0.0911	91	70-130	3	35	mg/kg	01.26.2021 10:28	
Ethylbenzene	<0.00200	0.100	0.0888	89	0.0905	91	70-130	2	35	mg/kg	01.26.2021 10:28	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.187	94	70-130	3	35	mg/kg	01.26.2021 10:28	
o-Xylene	<0.00200	0.100	0.0894	89	0.0914	91	70-130	2	35	mg/kg	01.26.2021 10:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		90		98		70-130	%	01.26.2021 10:28
4-Bromofluorobenzene	69	**	93		97		70-130	%	01.26.2021 10:28

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3148612 Matrix: Soil Date Prep: 01.21.2021
Parent Sample Id: 685451-007 MS Sample Id: 685451-007 S MSD Sample Id: 685451-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0990	0.119	120	0.128	128	70-130	7	35	mg/kg	01.22.2021 05:57	
Toluene	<0.00198	0.0990	0.109	110	0.118	118	70-130	8	35	mg/kg	01.22.2021 05:57	
Ethylbenzene	<0.00198	0.0990	0.0982	99	0.108	108	70-130	10	35	mg/kg	01.22.2021 05:57	
m,p-Xylenes	<0.00396	0.198	0.177	89	0.209	105	70-130	17	35	mg/kg	01.22.2021 05:57	
o-Xylene	<0.00198	0.0990	0.103	104	0.118	118	70-130	14	35	mg/kg	01.22.2021 05:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		107		70-130	%	01.22.2021 05:57
4-Bromofluorobenzene	116		118		70-130	%	01.22.2021 05:57

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3148704 Matrix: Soil Date Prep: 01.22.2021
Parent Sample Id: 685471-008 MS Sample Id: 685471-008 S MSD Sample Id: 685471-008 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	0.103	103	0.0876	88	70-130	16	35	mg/kg	01.22.2021 18:23	
Toluene	<0.00200	0.0998	0.0958	96	0.0829	83	70-130	14	35	mg/kg	01.22.2021 18:23	
Ethylbenzene	<0.00200	0.0998	0.0986	99	0.0866	87	70-130	13	35	mg/kg	01.22.2021 18:23	
m,p-Xylenes	<0.00399	0.200	0.195	98	0.172	86	70-130	13	35	mg/kg	01.22.2021 18:23	
o-Xylene	<0.00200	0.0998	0.0951	95	0.0842	84	70-130	12	35	mg/kg	01.22.2021 18:23	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		101		70-130	%	01.22.2021 18:23
4-Bromofluorobenzene	99		102		70-130	%	01.22.2021 18:23

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

Larson and Associates, Inc.

Salado Draw 24 TB

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

Seq Number: 3148943 Matrix: Soil Date Prep: 01.26.2021

Parent Sample Id: 685779-003 MS Sample Id: 685779-003 S MSD Sample Id: 685779-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0666	67	0.0659	66	70-130	1	35	mg/kg	01.26.2021 11:21	X
Toluene	<0.00200	0.100	0.0576	58	0.0649	65	70-130	12	35	mg/kg	01.26.2021 11:21	X
Ethylbenzene	<0.00200	0.100	0.0518	52	0.0521	52	70-130	1	35	mg/kg	01.26.2021 11:21	X
m,p-Xylenes	<0.00401	0.200	0.0776	39	0.0758	38	70-130	2	35	mg/kg	01.26.2021 11:21	X
o-Xylene	<0.00200	0.100	0.0539	54	0.0632	63	70-130	16	35	mg/kg	01.26.2021 11:21	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	75		95		70-130	%	01.26.2021 11:21
4-Bromofluorobenzene	103		98		70-130	%	01.26.2021 11:21

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

№1408

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 1-20-21 PAGE 1 OF 2

PO#: LAB WORK ORDER#: 685471

PROJECT LOCATION OR NAME: Salado Draw 24 TB

LAI PROJECT #: 21-0100-01 COLLECTOR: TJ + DS

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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

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

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TBLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-1 .5'		1-20-21	1112	S	1				X		X			X	X	X													X		
S-1 1'			1120																												
S-2 .5'			1056																												
S-2 1'			1100																												
S-3 .5'			1111																												
S-3 1'			1114																												
S-4 .5'			1055																												
S-4 1'			1100																												
S-5 .5'			1102																												
S-5 1'			1105																												
S-6 .5'			1106																												
S-6 1'			1108																												
S-7 .5'			1119																												
S-7 1'			1121																												
S-8 .5'			1104																												
TOTAL 15																															

RELINQUISHED BY:(Signature) DATE/TIME 1/21/21 8:20 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: -5.4 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

№1409

CHAIN-OF-CUSTODY

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

DATE: 1-20-21 PAGE 2 OF 2
PO#: LAB WORK ORDER#: 685471
PROJECT LOCATION OR NAME: Salado Draw 24 TB
LAI PROJECT #: 21-0100-01 COLLECTOR: JT & DS

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 ☐ | TCLP VOC ☐ | TBLP - METALS (RCRA) ☐ | 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 Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP VOC ☐	TBLP - METALS (RCRA) ☐	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-8 1'		1-20-21	1106	S	1				X		X				X	X	X																							X					
S-9 .5'		1	1122	1	1				1		1				1	1	1																							1					
S-9 1'		1	1125	1	1				1		1				1	1	1																							1					

TOTAL 3

RELINQUISHED BY:(Signature) DATE/TIME 1/21/21 8:20 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: -5.4 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 01.21.2021 08.20.00 AM

Work Order #: 685471

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)?	-5.4
#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: Brianna Teel Date: 01.21.2021
Brianna Teel

Checklist reviewed by: Holly Taylor Date: 01.21.2021
Holly Taylor

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Certificate of Analysis Summary 690682

Larson and Associates, Inc., Midland, TX

Project Name: SD 24 CTB

Project Id: 21-0100-01
Contact: Mark Larson
Project Location:

Date Received in Lab: Fri 03.05.2021 15:57
Report Date: 03.12.2021 12:23
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	690682-001		690682-002		690682-003		690682-004		690682-005		690682-006	
	Field Id:	S-2 1'		S-2 3'		S-2 5'		S-2 10'		S-3 1'		S-3 3'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	03.04.2021 10:50		03.04.2021 10:55		03.04.2021 10:58		03.04.2021 11:00		03.04.2021 10:32		03.04.2021 10:35	
Chloride by EPA 300	***Extracted:***	03.10.2021 12:00		03.10.2021 12:00		03.10.2021 12:00		03.10.2021 12:00		03.10.2021 12:00		03.10.2021 12:00	
	Analyzed:	03.10.2021 13:34		03.10.2021 16:19		03.10.2021 16:24		03.10.2021 16:41		03.10.2021 16:46		03.10.2021 16:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3840	25.0	6820	50.5	10900	99.6	199	4.95	3320	25.1	3810	25.0

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 690682

Larson and Associates, Inc., Midland, TX

Project Name: SD 24 CTB

Project Id: 21-0100-01
Contact: Mark Larson
Project Location:

Date Received in Lab: Fri 03.05.2021 15:57
Report Date: 03.12.2021 12:23
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	690682-007		690682-008		690682-009		690682-010		690682-011		690682-012	
	Field Id:	S-3 5'		S-3 10'		S-4 1'		S-4 3'		S-4 5'		S-4 10'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	03.04.2021 10:40		03.04.2021 10:42		03.04.2021 10:15		03.04.2021 10:20		03.04.2021 10:25		03.04.2021 10:30	
Chloride by EPA 300	***Extracted:***	03.10.2021 12:00		03.10.2021 12:00		03.10.2021 12:00		03.10.2021 12:00		03.10.2021 12:00		03.10.2021 12:00	
	Analyzed:	03.10.2021 16:57		03.10.2021 17:03		03.10.2021 17:08		03.10.2021 17:14		03.10.2021 12:22		03.10.2021 13:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5980	49.7	2050	25.2	3670	25.0	4610	49.6	753 X	5.00	45.2	5.00

BRL - Below Reporting Limit

Holly Taylor

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Certificate of Analysis Summary 690682

Larson and Associates, Inc., Midland, TX

Project Name: SD 24 CTB

Project Id: 21-0100-01
Contact: Mark Larson
Project Location:

Date Received in Lab: Fri 03.05.2021 15:57
Report Date: 03.12.2021 12:23
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	690682-013		690682-014		690682-015		690682-016					
	Field Id:	S-5 1'		S-5 3'		S-5 5'		S-5 10'					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	03.04.2021 09:50		03.04.2021 09:55		03.04.2021 10:00		03.04.2021 10:05					
Chloride by EPA 300	***Extracted:***	03.10.2021 13:04		03.10.2021 13:04		03.10.2021 13:04		03.10.2021 13:04					
	Analyzed:	03.10.2021 14:14		03.10.2021 14:29		03.10.2021 14:34		03.10.2021 14:39					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		761	5.05	5150	50.2	2990	25.0	41.5	5.04				

BRL - Below Reporting Limit

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Analytical Report 690682

for

Larson and Associates, Inc.

Project Manager: Mark Larson

SD 24 CTB

21-0100-01

03.12.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

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03.12.2021

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

Reference: Eurofins Xenco, LLC Report No(s): **690682**
SD 24 CTB
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) 690682. 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. 690682 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

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Sample Cross Reference 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-2 1'	S	03.04.2021 10:50		690682-001
S-2 3'	S	03.04.2021 10:55		690682-002
S-2 5'	S	03.04.2021 10:58		690682-003
S-2 10'	S	03.04.2021 11:00		690682-004
S-3 1'	S	03.04.2021 10:32		690682-005
S-3 3'	S	03.04.2021 10:35		690682-006
S-3 5'	S	03.04.2021 10:40		690682-007
S-3 10'	S	03.04.2021 10:42		690682-008
S-4 1'	S	03.04.2021 10:15		690682-009
S-4 3'	S	03.04.2021 10:20		690682-010
S-4 5'	S	03.04.2021 10:25		690682-011
S-4 10'	S	03.04.2021 10:30		690682-012
S-5 1'	S	03.04.2021 09:50		690682-013
S-5 3'	S	03.04.2021 09:55		690682-014
S-5 5'	S	03.04.2021 10:00		690682-015
S-5 10'	S	03.04.2021 10:05		690682-016

CASE NARRATIVE

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Client Name: Larson and Associates, Inc.

Project Name: SD 24 CTB

Project ID: *21-0100-01*
Work Order Number(s): *690682*

Report Date: *03.12.2021*
Date Received: *03.05.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3153261 Chloride by EPA 300

Lab Sample ID 690682-012 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride 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: 690682-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012.

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

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-2 1'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-001	Date Collected:	03.04.2021 10:50		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 12:00	% Moisture:	
Seq Number:	3153261			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3840**	25.0	mg/kg	03.10.2021 13:34		5

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-2 3'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-002	Date Collected:	03.04.2021 10:55		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 12:00	% Moisture:	
Seq Number:	3153261			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6820**	50.5	mg/kg	03.10.2021 16:19		10

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-2 5'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-003	Date Collected:	03.04.2021 10:58		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 12:00	% Moisture:	
Seq Number:	3153261			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10900**	99.6	mg/kg	03.10.2021 16:24		20

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-2 10'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-004	Date Collected:	03.04.2021 11:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 12:00	% Moisture:	
Seq Number:	3153261			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**199**	4.95	mg/kg	03.10.2021 16:41		1

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-3 1'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-005	Date Collected:	03.04.2021 10:32		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 12:00	% Moisture:	
Seq Number:	3153261			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3320**	25.1	mg/kg	03.10.2021 16:46		5

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-3 3'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-006	Date Collected:	03.04.2021 10:35		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 12:00	% Moisture:	
Seq Number:	3153261			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3810**	25.0	mg/kg	03.10.2021 16:52		5

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-3 5'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-007	Date Collected:	03.04.2021 10:40		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 12:00	% Moisture:	
Seq Number:	3153261			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5980**	49.7	mg/kg	03.10.2021 16:57		10

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-3 10'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-008	Date Collected:	03.04.2021 10:42		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 12:00	% Moisture:	
Seq Number:	3153261			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2050**	25.2	mg/kg	03.10.2021 17:03		5

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-4 1'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-009	Date Collected:	03.04.2021 10:15		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 12:00	% Moisture:	
Seq Number:	3153261			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3670**	25.0	mg/kg	03.10.2021 17:08		5

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-4 3'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-010	Date Collected:	03.04.2021 10:20		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 12:00	% Moisture:	
Seq Number:	3153261			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4610**	49.6	mg/kg	03.10.2021 17:14		10

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-4 5'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-011	Date Collected:	03.04.2021 10:25		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 12:00	% Moisture:	
Seq Number:	3153261			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**753**	5.00	mg/kg	03.10.2021 12:22	X	1

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-4 10'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-012	Date Collected:	03.04.2021 10:30		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 12:00	% Moisture:	
Seq Number:	3153261			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**45.2**	5.00	mg/kg	03.10.2021 13:39		1

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-5 1'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-013	Date Collected:	03.04.2021 09:50		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 13:04	% Moisture:	
Seq Number:	3153262			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**761**	5.05	mg/kg	03.10.2021 14:14		1

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-5 3'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-014	Date Collected:	03.04.2021 09:55		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 13:04	% Moisture:	
Seq Number:	3153262			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5150**	50.2	mg/kg	03.10.2021 14:29		10

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-5 5'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-015	Date Collected:	03.04.2021 10:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 13:04	% Moisture:	
Seq Number:	3153262			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2990**	25.0	mg/kg	03.10.2021 14:34		5

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Certificate of Analytical Results 690682

Larson and Associates, Inc., Midland, TX

SD 24 CTB

Sample Id:	**S-5 10'**	Matrix:	Soil	Date Received:	03.05.2021 15:57
Lab Sample Id:	690682-016	Date Collected:	03.04.2021 10:05		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.10.2021 13:04	% Moisture:	
Seq Number:	3153262			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**41.5**	5.04	mg/kg	03.10.2021 14:39		1

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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

Larson and Associates, Inc.

SD 24 CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3153261 — Matrix: Solid — Date Prep: 03.10.2021
MB Sample Id: 7723010-1-BLK — LCS Sample Id: 7723010-1-BKS — LCSD Sample Id: 7723010-1-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	242	97	243	97	90-110	0	20	mg/kg	03.10.2021 12:11	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3153262 — Matrix: Solid — Date Prep: 03.10.2021
MB Sample Id: 7723014-1-BLK — LCS Sample Id: 7723014-1-BKS — LCSD Sample Id: 7723014-1-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	249	100	250	100	90-110	0	20	mg/kg	03.10.2021 14:04	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3153261 — Matrix: Soil — Date Prep: 03.10.2021
Parent Sample Id: 690682-011 — MS Sample Id: 690682-011 S — MSD Sample Id: 690682-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	753	500	1200	89	1200	89	90-110	0	20	mg/kg	03.10.2021 12:27	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3153261 — Matrix: Soil — Date Prep: 03.10.2021
Parent Sample Id: 690682-012 — MS Sample Id: 690682-012 S — MSD Sample Id: 690682-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	45.2	500	531	97	526	96	90-110	1	20	mg/kg	03.10.2021 16:08	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3153262 — Matrix: Soil — Date Prep: 03.10.2021
Parent Sample Id: 690682-013 — MS Sample Id: 690682-013 S — MSD Sample Id: 690682-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	761	253	989	90	992	91	90-110	0	20	mg/kg	03.10.2021 14:19	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3153262 — Matrix: Soil — Date Prep: 03.10.2021
Parent Sample Id: 690834-003 — MS Sample Id: 690834-003 S — MSD Sample Id: 690834-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	20.0	496	516	100	517	100	90-110	0	20	mg/kg	03.10.2021 15:29	

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

№ 1534

690682

CHAIN-OF-CUSTODY

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

DATE: 3/5/21 PAGE 1 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: SD 24 CTB

LAI PROJECT #: 21-0100-01 COLLECTOR: TJ & MB

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 ☐ | TCLP - 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	ANALYSES	FIELD NOTES
S-2 1'		3/4/21	1050	S	1				X			Chloride only
S-2 3'			1055									
S-2 5'			1058									
S-2 10'			1100									
S-3 1'			1032									
S-3 3'			1035									
S-3 5'			1040									
S-3 10'			1042									
S-4 1'			1015									
S-4 3'			1020									
S-4 5'			1025									
S-4 10'			1030									
S-5 1'			0950									
S-5 3'			0955									
S-5 5'			1000									

TOTAL 15

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Maryan	3/5/21 1557	Stramer
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP: 5-1/5-6 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

6906852 1535

CHAIN-OF-CUSTODY

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

DATE: 3/5/21 PAGE 2 OF 2
PO#: LAB WORK ORDER#:
PROJECT LOCATION OR NAME: SD24 CTB
LAI PROJECT #: 21-0100-01 COLLECTOR: TJ & MB

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 ☐ | pH ☐ | CYANIDE ☐ | EXPLOSIVES ☐ | HEXAVALENT CHROMIUM ☐ | CHLORIDE ☑ | PECHLORATE ☐ | ANIONS ☐ | ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4	NaOH	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
S-5 10'		3/4/21	1005	S	4					X		BTEX ☑ MTBE ☐	Chloride only

TOTAL 1

RELINQUISHED BY:(Signature) DATE/TIME 3/5/21 1557 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: 5.1/5.6 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 03.05.2021 03.57.00 PM

Work Order #: 690682

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)?	5.6
#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: 03.05.2021
Brianna Teel

Checklist reviewed by: Holly Taylor Date: 03.11.2021
Holly Taylor

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-11990-1
Laboratory Sample Delivery Group: 21-0100-01
Client Project/Site: Salado Draw 24 CTB Produced Water

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
3/10/2022 4:34:30 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

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

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

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Job ID: 880-11990-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-11990-1

Comments
No additional comments.

Receipt
The samples were received on 3/3/2022 9:23 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.5º C.

GC VOA
Method 8021B: Batch preparation batch 880-21114 and analytical batch 880-21110 is reported without a matrix spike/matrix spike duplicate (MS/MSD). The batch MS/MSD was originally performed on another client's sample, and this test was not reportable. This MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B NM: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-20831 and analytical batch 880-21198 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: BH-5 4.1' (880-11990-5), BH-12 4.1' (880-11990-12), BH-16 4.1' (880-11990-16) and (880-11990-A-1-E MS). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-1 4.1'

Date Collected: 03/02/22 08:02
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199		mg/Kg		03/07/22 12:42	03/07/22 23:23	1
Toluene	<0.00199	U F2 F1	0.00199		mg/Kg		03/07/22 12:42	03/07/22 23:23	1
Ethylbenzene	<0.00199	U F2 F1	0.00199		mg/Kg		03/07/22 12:42	03/07/22 23:23	1
m,p-Xylenes	<0.00398	U F2 F1	0.00398		mg/Kg		03/07/22 12:42	03/07/22 23:23	1
o-Xylene	<0.00199	U F2 F1	0.00199		mg/Kg		03/07/22 12:42	03/07/22 23:23	1
Xylenes, Total	<0.00398	U F2 F1	0.00398		mg/Kg		03/07/22 12:42	03/07/22 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/07/22 12:42*	*03/07/22 23:23*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/07/22 12:42*	*03/07/22 23:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	50.0		mg/Kg		03/03/22 15:56	03/09/22 22:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/09/22 22:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/09/22 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*03/03/22 15:56*	*03/09/22 22:06*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*03/03/22 15:56*	*03/09/22 22:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15200**		249		mg/Kg			03/08/22 13:28	50

Client Sample ID: BH-2 4.1'

Date Collected: 03/02/22 08:04
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/07/22 23:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/07/22 23:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/07/22 23:43	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/07/22 12:42	03/07/22 23:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/07/22 23:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 12:42	03/07/22 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/07/22 12:42*	*03/07/22 23:43*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/07/22 12:42*	*03/07/22 23:43*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-2 4.1'

Lab Sample ID: 880-11990-2
Matrix: Solid
Date Collected: 03/02/22 08:04
Date Received: 03/03/22 09:23

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/09/22 23:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/09/22 23:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/09/22 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*03/03/22 15:56*	*03/09/22 23:12*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*03/03/22 15:56*	*03/09/22 23:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8080**		99.8		mg/Kg			03/08/22 13:34	20

Client Sample ID: BH-3 4.1'

Lab Sample ID: 880-11990-3
Matrix: Solid
Date Collected: 03/02/22 08:06
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 00:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 00:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 00:04	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		03/07/22 12:42	03/08/22 00:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 00:04	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/22 12:42	03/08/22 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/07/22 12:42*	*03/08/22 00:04*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/07/22 12:42*	*03/08/22 00:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/09/22 23:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/09/22 23:34	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-3 4.1'

Lab Sample ID: 880-11990-3
Matrix: Solid
Date Collected: 03/02/22 08:06
Date Received: 03/03/22 09:23

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/09/22 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*03/03/22 15:56*	*03/09/22 23:34*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*03/03/22 15:56*	*03/09/22 23:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19400**		249		mg/Kg			03/08/22 13:39	50

Client Sample ID: BH-4 4.1'

Lab Sample ID: 880-11990-4
Matrix: Solid
Date Collected: 03/02/22 08:08
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 00:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 00:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 00:24	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		03/07/22 12:42	03/08/22 00:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 00:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/22 12:42	03/08/22 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/07/22 12:42*	*03/08/22 00:24*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/07/22 12:42*	*03/08/22 00:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/09/22 23:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/09/22 23:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/09/22 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*03/03/22 15:56*	*03/09/22 23:54*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*03/03/22 15:56*	*03/09/22 23:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6560**		50.4		mg/Kg			03/08/22 13:57	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-5 4.1'

Date Collected: 03/02/22 08:10
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 00:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 00:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 00:44	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/07/22 12:42	03/08/22 00:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 00:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:42	03/08/22 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*03/07/22 12:42*	*03/08/22 00:44*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*03/07/22 12:42*	*03/08/22 00:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**110**		50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 07:00	1
Diesel Range Organics (Over C10-C28)	**110**		50.0		mg/Kg		03/03/22 15:56	03/10/22 07:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 07:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*126*		*70 - 130*	*03/03/22 15:56*	*03/10/22 07:00*	*1*
o-Terphenyl (Surr)	*137*	*S1+*	*70 - 130*	*03/03/22 15:56*	*03/10/22 07:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1410**		24.9		mg/Kg			03/08/22 14:03	5

Client Sample ID: BH-6 4.1'

Date Collected: 03/02/22 08:12
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 01:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 01:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 01:05	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		03/07/22 12:42	03/08/22 01:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 01:05	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/07/22 12:42	03/08/22 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/07/22 12:42*	*03/08/22 01:05*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/07/22 12:42*	*03/08/22 01:05*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-6 4.1'

Lab Sample ID: 880-11990-6
Matrix: Solid
Date Collected: 03/02/22 08:12
Date Received: 03/03/22 09:23

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 07:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 07:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 07:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*03/03/22 15:56*	*03/10/22 07:20*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*03/03/22 15:56*	*03/10/22 07:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**652**		4.95		mg/Kg			03/08/22 14:31	1

Client Sample ID: BH-7 4.1'

Lab Sample ID: 880-11990-7
Matrix: Solid
Date Collected: 03/02/22 08:14
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 01:25	1
Toluene	**0.00301**		0.00199		mg/Kg		03/07/22 12:42	03/08/22 01:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 01:25	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/07/22 12:42	03/08/22 01:25	1
o-Xylene	**0.00204**		0.00199		mg/Kg		03/07/22 12:42	03/08/22 01:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:42	03/08/22 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*03/07/22 12:42*	*03/08/22 01:25*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/07/22 12:42*	*03/08/22 01:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00505**		0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 07:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 07:40	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-7 4.1'

Lab Sample ID: 880-11990-7
Matrix: Solid
Date Collected: 03/02/22 08:14
Date Received: 03/03/22 09:23

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 07:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*03/03/22 15:56*	*03/10/22 07:40*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*03/03/22 15:56*	*03/10/22 07:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9270**		99.6		mg/Kg			03/08/22 14:37	20

Client Sample ID: BH-8 4.1'

Lab Sample ID: 880-11990-8
Matrix: Solid
Date Collected: 03/02/22 08:16
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 01:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 01:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 01:46	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		03/07/22 12:42	03/08/22 01:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 01:46	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/07/22 12:42	03/08/22 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/07/22 12:42*	*03/08/22 01:46*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/07/22 12:42*	*03/08/22 01:46*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 08:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 08:00	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 08:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*03/03/22 15:56*	*03/10/22 08:00*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*03/03/22 15:56*	*03/10/22 08:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6050**		49.5		mg/Kg			03/08/22 14:43	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-9 4.1'

Date Collected: 03/02/22 08:18
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-9

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 02:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 02:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 02:06	1
m,p-Xylenes	**0.00425**		0.00399		mg/Kg		03/07/22 12:42	03/08/22 02:06	1
o-Xylene	**0.00248**		0.00200		mg/Kg		03/07/22 12:42	03/08/22 02:06	1
Xylenes, Total	**0.00673**		0.00399		mg/Kg		03/07/22 12:42	03/08/22 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/22 12:42*	*03/08/22 02:06*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/07/22 12:42*	*03/08/22 02:06*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00673**		0.00399		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 08:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 08:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 08:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*03/03/22 15:56*	*03/10/22 08:21*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*03/03/22 15:56*	*03/10/22 08:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5930**		50.4		mg/Kg			03/08/22 14:49	10

Client Sample ID: BH-10 4.1'

Date Collected: 03/02/22 08:20
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 02:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 02:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 02:27	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/07/22 12:42	03/08/22 02:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 02:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 12:42	03/08/22 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/07/22 12:42*	*03/08/22 02:27*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*03/07/22 12:42*	*03/08/22 02:27*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-10 4.1'

Date Collected: 03/02/22 08:20
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-10
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 08:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 08:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*03/03/22 15:56*	*03/10/22 08:41*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*03/03/22 15:56*	*03/10/22 08:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4000**		50.4		mg/Kg			03/08/22 15:07	10

Client Sample ID: BH-11 4.1'

Date Collected: 03/02/22 08:22
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 03:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 03:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 03:49	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		03/07/22 12:42	03/08/22 03:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:42	03/08/22 03:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/22 12:42	03/08/22 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/07/22 12:42*	*03/08/22 03:49*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/07/22 12:42*	*03/08/22 03:49*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 09:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 09:24	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-11 4.1'

Lab Sample ID: 880-11990-11
Matrix: Solid
Date Collected: 03/02/22 08:22
Date Received: 03/03/22 09:23

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*03/03/22 15:56*	*03/10/22 09:24*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*03/03/22 15:56*	*03/10/22 09:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6530		99.0		mg/Kg			03/08/22 15:13	20

Client Sample ID: BH-12 4.1'

Lab Sample ID: 880-11990-12
Matrix: Solid
Date Collected: 03/02/22 08:24
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 04:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 04:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 04:09	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/07/22 12:42	03/08/22 04:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 04:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:42	03/08/22 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/07/22 12:42*	*03/08/22 04:09*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/07/22 12:42*	*03/08/22 04:09*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 09:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 09:45	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 09:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*129*		*70 - 130*	*03/03/22 15:56*	*03/10/22 09:45*	*1*
o-Terphenyl (Surr)	*133*	*S1+*	*70 - 130*	*03/03/22 15:56*	*03/10/22 09:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8510		101		mg/Kg			03/08/22 15:30	20

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-13 4.1'

Date Collected: 03/02/22 08:26
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-13
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 04:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 04:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 04:30	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/07/22 12:42	03/08/22 04:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 04:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:42	03/08/22 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/07/22 12:42*	*03/08/22 04:30*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/07/22 12:42*	*03/08/22 04:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 10:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 10:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 10:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*03/03/22 15:56*	*03/10/22 10:07*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*03/03/22 15:56*	*03/10/22 10:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4150**		49.5		mg/Kg			03/08/22 15:36	10

Client Sample ID: BH-14 4.1'

Date Collected: 03/02/22 08:28
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-14
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 04:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 04:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 04:50	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/07/22 12:42	03/08/22 04:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:42	03/08/22 04:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:42	03/08/22 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/07/22 12:42*	*03/08/22 04:50*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/07/22 12:42*	*03/08/22 04:50*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-14 4.1'

Date Collected: 03/02/22 08:28
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-14
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 10:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 10:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 10:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*125*		*70 - 130*	*03/03/22 15:56*	*03/10/22 10:28*	*1*
o-Terphenyl (Surr)	*128*		*70 - 130*	*03/03/22 15:56*	*03/10/22 10:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4540**		50.0		mg/Kg			03/08/22 15:42	10

Client Sample ID: BH-15 4.1'

Date Collected: 03/02/22 08:30
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-15
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 05:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 05:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 05:11	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		03/07/22 12:42	03/08/22 05:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 05:11	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/07/22 12:42	03/08/22 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/07/22 12:42*	*03/08/22 05:11*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/07/22 12:42*	*03/08/22 05:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 11:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 11:10	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-15 4.1'

Date Collected: 03/02/22 08:30
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*03/03/22 15:56*	*03/10/22 11:10*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*03/03/22 15:56*	*03/10/22 11:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4310**		49.5		mg/Kg			03/08/22 15:48	10

Client Sample ID: BH-16 4.1'

Date Collected: 03/02/22 08:32
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-16
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 05:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 05:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 05:31	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/07/22 12:42	03/08/22 05:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 05:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/07/22 12:42	03/08/22 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/07/22 12:42*	*03/08/22 05:31*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/07/22 12:42*	*03/08/22 05:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 11:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 11:31	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*144*	*S1+*	*70 - 130*	*03/03/22 15:56*	*03/10/22 11:31*	*1*
o-Terphenyl (Surr)	*150*	*S1+*	*70 - 130*	*03/03/22 15:56*	*03/10/22 11:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5110**		50.0		mg/Kg			03/08/22 15:54	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-17 4.1'

Lab Sample ID: 880-11990-17
Date Collected: 03/02/22 08:34
Matrix: Solid
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 05:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 05:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 05:52	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/07/22 12:42	03/08/22 05:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/08/22 05:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/07/22 12:42	03/08/22 05:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/07/22 12:42*	*03/08/22 05:52*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/07/22 12:42*	*03/08/22 05:52*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 11:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 11:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*03/03/22 15:56*	*03/10/22 11:51*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*03/03/22 15:56*	*03/10/22 11:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6460**		49.6		mg/Kg			03/08/22 16:00	10

Client Sample ID: BH-18 4.1'

Lab Sample ID: 880-11990-18
Date Collected: 03/02/22 08:36
Matrix: Solid
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 06:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 06:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 06:12	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		03/07/22 12:42	03/08/22 06:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 06:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/07/22 12:42	03/08/22 06:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/07/22 12:42*	*03/08/22 06:12*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/07/22 12:42*	*03/08/22 06:12*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-18 4.1'

Lab Sample ID: 880-11990-18
Matrix: Solid
Date Collected: 03/02/22 08:36
Date Received: 03/03/22 09:23

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 12:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 12:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*128*		*70 - 130*	*03/03/22 15:56*	*03/10/22 12:12*	*1*
o-Terphenyl (Surr)	*133*	*S1+*	*70 - 130*	*03/03/22 15:56*	*03/10/22 12:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4970**		50.5		mg/Kg			03/08/22 16:06	10

Client Sample ID: BH-19 4.1'

Lab Sample ID: 880-11990-19
Matrix: Solid
Date Collected: 03/02/22 08:38
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 06:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 06:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 06:33	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		03/07/22 12:42	03/08/22 06:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:42	03/08/22 06:33	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/07/22 12:42	03/08/22 06:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/07/22 12:42*	*03/08/22 06:33*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/07/22 12:42*	*03/08/22 06:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 12:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 12:32	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-19 4.1'

Lab Sample ID: 880-11990-19
Date Collected: 03/02/22 08:38
Matrix: Solid
Date Received: 03/03/22 09:23

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/10/22 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*141*	*S1+*	*70 - 130*	*03/03/22 15:56*	*03/10/22 12:32*	*1*
o-Terphenyl (Surr)	*147*	*S1+*	*70 - 130*	*03/03/22 15:56*	*03/10/22 12:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9760**		99.2		mg/Kg			03/08/22 09:03	20

Client Sample ID: BH-20 4.1'

Lab Sample ID: 880-11990-20
Date Collected: 03/02/22 08:40
Matrix: Solid
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:42	03/08/22 06:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:42	03/08/22 06:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:42	03/08/22 06:53	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/07/22 12:42	03/08/22 06:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:42	03/08/22 06:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/22 12:42	03/08/22 06:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/07/22 12:42*	*03/08/22 06:53*	*1*
1,4-Difluorobenzene (Surr)	*34*	*S1-*	*70 - 130*	*03/07/22 12:42*	*03/08/22 06:53*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 12:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 12:52	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/03/22 15:56	03/10/22 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*03/03/22 15:56*	*03/10/22 12:52*	*1*
o-Terphenyl (Surr)	*119*		*70 - 130*	*03/03/22 15:56*	*03/10/22 12:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5180**		50.4		mg/Kg			03/08/22 09:29	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-21 4.1'

Lab Sample ID: 880-11990-21
Date Collected: 03/02/22 08:42
Matrix: Solid
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 17:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 17:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 17:18	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/22 08:59	03/08/22 17:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 17:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/22 08:59	03/08/22 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/08/22 08:59*	*03/08/22 17:18*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/08/22 08:59*	*03/08/22 17:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 12:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 12:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*03/04/22 09:34*	*03/07/22 12:47*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*03/04/22 09:34*	*03/07/22 12:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**181**		5.00		mg/Kg			03/08/22 09:38	1

Client Sample ID: BH-22 4.1'

Lab Sample ID: 880-11990-22
Date Collected: 03/02/22 08:44
Matrix: Solid
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 17:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 17:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 17:38	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/22 08:59	03/08/22 17:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 17:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/22 08:59	03/08/22 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/08/22 08:59*	*03/08/22 17:38*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/08/22 08:59*	*03/08/22 17:38*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-22 4.1'

Lab Sample ID: 880-11990-22
Matrix: Solid
Date Collected: 03/02/22 08:44
Date Received: 03/03/22 09:23

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 13:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 13:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*03/04/22 09:34*	*03/07/22 13:50*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*03/04/22 09:34*	*03/07/22 13:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3380**		49.8		mg/Kg			03/08/22 09:47	10

Client Sample ID: BH-23 4.1'

Lab Sample ID: 880-11990-23
Matrix: Solid
Date Collected: 03/02/22 08:46
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:59	03/08/22 20:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:59	03/08/22 20:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:59	03/08/22 20:30	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/08/22 08:59	03/08/22 20:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:59	03/08/22 20:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/08/22 08:59	03/08/22 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/08/22 08:59*	*03/08/22 20:30*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/08/22 08:59*	*03/08/22 20:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 14:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 14:10	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-23 4.1'

Lab Sample ID: 880-11990-23
Date Collected: 03/02/22 08:46
Matrix: Solid
Date Received: 03/03/22 09:23

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*03/04/22 09:34*	*03/07/22 14:10*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*03/04/22 09:34*	*03/07/22 14:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2370**		24.8		mg/Kg			03/08/22 09:56	5

Client Sample ID: BH-24 4.1'

Lab Sample ID: 880-11990-24
Date Collected: 03/02/22 08:48
Matrix: Solid
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 20:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 20:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 20:50	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/22 08:59	03/08/22 20:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 20:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/22 08:59	03/08/22 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/08/22 08:59*	*03/08/22 20:50*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/08/22 08:59*	*03/08/22 20:50*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 14:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 14:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*03/04/22 09:34*	*03/07/22 14:30*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*03/04/22 09:34*	*03/07/22 14:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5790**		49.7		mg/Kg			03/08/22 10:22	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-25 4.1'

Date Collected: 03/02/22 08:50
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-25
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/08/22 08:59	03/08/22 21:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/08/22 08:59	03/08/22 21:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/08/22 08:59	03/08/22 21:11	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		03/08/22 08:59	03/08/22 21:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/08/22 08:59	03/08/22 21:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/08/22 08:59	03/08/22 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/08/22 08:59*	*03/08/22 21:11*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/08/22 08:59*	*03/08/22 21:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 14:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 14:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*03/04/22 09:34*	*03/07/22 14:51*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*03/04/22 09:34*	*03/07/22 14:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2650**		25.0		mg/Kg			03/08/22 10:31	5

Client Sample ID: BH-26 4.1'

Date Collected: 03/02/22 08:52
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-26
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/08/22 08:59	03/08/22 21:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/08/22 08:59	03/08/22 21:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/08/22 08:59	03/08/22 21:31	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/08/22 08:59	03/08/22 21:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/08/22 08:59	03/08/22 21:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/08/22 08:59	03/08/22 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/08/22 08:59*	*03/08/22 21:31*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/08/22 08:59*	*03/08/22 21:31*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-26 4.1'

Lab Sample ID: 880-11990-26
Matrix: Solid
Date Collected: 03/02/22 08:52
Date Received: 03/03/22 09:23

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 15:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 15:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*03/04/22 09:34*	*03/07/22 15:11*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*03/04/22 09:34*	*03/07/22 15:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1240**		25.0		mg/Kg			03/08/22 10:40	5

Client Sample ID: BH-27 4.1'

Lab Sample ID: 880-11990-27
Matrix: Solid
Date Collected: 03/02/22 08:54
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 21:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 21:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 21:52	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/22 08:59	03/08/22 21:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:59	03/08/22 21:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/22 08:59	03/08/22 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/08/22 08:59*	*03/08/22 21:52*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/08/22 08:59*	*03/08/22 21:52*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 15:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 15:32	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-27 4.1'

Lab Sample ID: 880-11990-27
Matrix: Solid
Date Collected: 03/02/22 08:54
Date Received: 03/03/22 09:23

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*03/04/22 09:34*	*03/07/22 15:32*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*03/04/22 09:34*	*03/07/22 15:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3230**		25.0		mg/Kg			03/08/22 10:49	5

Client Sample ID: BH-28 4.1'

Lab Sample ID: 880-11990-28
Matrix: Solid
Date Collected: 03/02/22 08:56
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:30	03/08/22 16:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:30	03/08/22 16:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:30	03/08/22 16:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/22 08:30	03/08/22 16:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:30	03/08/22 16:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/22 08:30	03/08/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/08/22 08:30*	*03/08/22 16:31*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/08/22 08:30*	*03/08/22 16:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 15:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 15:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*03/04/22 09:34*	*03/07/22 15:53*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*03/04/22 09:34*	*03/07/22 15:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		25.0		mg/Kg			03/08/22 10:58	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: SW-1 0-4.1'

Lab Sample ID: 880-11990-29
Date Collected: 03/02/22 08:58
Matrix: Solid
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:30	03/08/22 16:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:30	03/08/22 16:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:30	03/08/22 16:51	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/22 08:30	03/08/22 16:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/22 08:30	03/08/22 16:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/22 08:30	03/08/22 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*03/08/22 08:30*	*03/08/22 16:51*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/08/22 08:30*	*03/08/22 16:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 16:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 16:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*03/04/22 09:34*	*03/07/22 16:14*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*03/04/22 09:34*	*03/07/22 16:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4310**		50.5		mg/Kg			03/08/22 11:07	10

Client Sample ID: SW-2 0-4.1'

Lab Sample ID: 880-11990-30
Date Collected: 03/02/22 09:00
Matrix: Solid
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/08/22 08:30	03/08/22 17:12	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/08/22 08:30	03/08/22 17:12	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/08/22 08:30	03/08/22 17:12	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		03/08/22 08:30	03/08/22 17:12	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/08/22 08:30	03/08/22 17:12	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/08/22 08:30	03/08/22 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/08/22 08:30*	*03/08/22 17:12*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/08/22 08:30*	*03/08/22 17:12*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: SW-2 0-4.1'

Lab Sample ID: 880-11990-30
Date Collected: 03/02/22 09:00
Matrix: Solid
Date Received: 03/03/22 09:23

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 16:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 16:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*03/04/22 09:34*	*03/07/22 16:36*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*03/04/22 09:34*	*03/07/22 16:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**184**		4.95		mg/Kg			03/08/22 11:33	1

Client Sample ID: SW-3 0-4.1'

Lab Sample ID: 880-11990-31
Date Collected: 03/02/22 09:02
Matrix: Solid
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/22 09:57	03/09/22 10:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/22 09:57	03/09/22 10:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/22 09:57	03/09/22 10:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/22 09:57	03/09/22 10:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/22 09:57	03/09/22 10:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/22 09:57	03/09/22 10:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/08/22 09:57*	*03/09/22 10:31*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/08/22 09:57*	*03/09/22 10:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 17:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 17:19	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: SW-3 0-4.1'

Lab Sample ID: 880-11990-31
Date Collected: 03/02/22 09:02
Matrix: Solid
Date Received: 03/03/22 09:23

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*03/04/22 09:34*	*03/07/22 17:19*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*03/04/22 09:34*	*03/07/22 17:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**904**		4.97		mg/Kg			03/08/22 11:42	1

Client Sample ID: SW-4 0-4.1'

Lab Sample ID: 880-11990-32
Date Collected: 03/02/22 09:04
Matrix: Solid
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/08/22 09:57	03/09/22 10:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/08/22 09:57	03/09/22 10:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/08/22 09:57	03/09/22 10:51	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/08/22 09:57	03/09/22 10:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/08/22 09:57	03/09/22 10:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/08/22 09:57	03/09/22 10:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/08/22 09:57*	*03/09/22 10:51*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/08/22 09:57*	*03/09/22 10:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 17:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 17:40	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*03/04/22 09:34*	*03/07/22 17:40*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*03/04/22 09:34*	*03/07/22 17:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**595**		5.00		mg/Kg			03/08/22 12:09	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: SW-5 0-4.1'

Lab Sample ID: 880-11990-33
Matrix: Solid
Date Collected: 03/02/22 09:06
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/22 09:57	03/09/22 11:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/22 09:57	03/09/22 11:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/22 09:57	03/09/22 11:12	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/22 09:57	03/09/22 11:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/22 09:57	03/09/22 11:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/22 09:57	03/09/22 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/08/22 09:57*	*03/09/22 11:12*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*03/08/22 09:57*	*03/09/22 11:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 18:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 18:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*03/04/22 09:34*	*03/07/22 18:02*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*03/04/22 09:34*	*03/07/22 18:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25200**		250		mg/Kg			03/08/22 12:17	50

Client Sample ID: SW-6 0-4.1'

Lab Sample ID: 880-11990-34
Matrix: Solid
Date Collected: 03/02/22 09:08
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 18:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 18:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 18:34	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/08/22 08:30	03/08/22 18:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 18:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/08/22 08:30	03/08/22 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/08/22 08:30*	*03/08/22 18:34*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/08/22 08:30*	*03/08/22 18:34*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: SW-6 0-4.1'

Lab Sample ID: 880-11990-34
Matrix: Solid
Date Collected: 03/02/22 09:08
Date Received: 03/03/22 09:23

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 18:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 18:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*03/04/22 09:34*	*03/07/22 18:23*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*03/04/22 09:34*	*03/07/22 18:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5910**		49.8		mg/Kg			03/08/22 12:26	10

Client Sample ID: SW-7 0-4.1'

Lab Sample ID: 880-11990-35
Matrix: Solid
Date Collected: 03/02/22 09:10
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 18:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 18:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 18:54	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/08/22 08:30	03/08/22 18:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 18:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/08/22 08:30	03/08/22 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/08/22 08:30*	*03/08/22 18:54*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/08/22 08:30*	*03/08/22 18:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/04/22 09:34	03/07/22 18:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/04/22 09:34	03/07/22 18:45	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: SW-7 0-4.1'

Lab Sample ID: 880-11990-35
Matrix: Solid
Date Collected: 03/02/22 09:10
Date Received: 03/03/22 09:23

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/04/22 09:34	03/07/22 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*03/04/22 09:34*	*03/07/22 18:45*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*03/04/22 09:34*	*03/07/22 18:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1380**		24.8		mg/Kg			03/08/22 12:35	5

Client Sample ID: SW-8 0-4.1'

Lab Sample ID: 880-11990-36
Matrix: Solid
Date Collected: 03/02/22 09:12
Date Received: 03/03/22 09:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/08/22 08:30	03/08/22 19:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/08/22 08:30	03/08/22 19:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/08/22 08:30	03/08/22 19:15	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/08/22 08:30	03/08/22 19:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/08/22 08:30	03/08/22 19:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/08/22 08:30	03/08/22 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/08/22 08:30*	*03/08/22 19:15*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/08/22 08:30*	*03/08/22 19:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 19:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 19:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*03/04/22 09:34*	*03/07/22 19:06*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*03/04/22 09:34*	*03/07/22 19:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4800**		49.5		mg/Kg			03/08/22 12:44	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: SW-9 0-4.1'

Date Collected: 03/02/22 09:14
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-37
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 19:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 19:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 19:35	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/08/22 08:30	03/08/22 19:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 19:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/08/22 08:30	03/08/22 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/08/22 08:30*	*03/08/22 19:35*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/08/22 08:30*	*03/08/22 19:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 19:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 19:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 09:34	03/07/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*03/04/22 09:34*	*03/07/22 19:27*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*03/04/22 09:34*	*03/07/22 19:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**906**		25.2		mg/Kg			03/08/22 12:53	5

Client Sample ID: SW-10 0-4.1'

Date Collected: 03/02/22 09:16
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-38
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/08/22 08:59	03/08/22 22:12	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/08/22 08:59	03/08/22 22:12	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/08/22 08:59	03/08/22 22:12	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		03/08/22 08:59	03/08/22 22:12	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/08/22 08:59	03/08/22 22:12	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/08/22 08:59	03/08/22 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/08/22 08:59*	*03/08/22 22:12*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/08/22 08:59*	*03/08/22 22:12*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: SW-10 0-4.1'

Date Collected: 03/02/22 09:16
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-38

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/08/22 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/22 06:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 19:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 19:48	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*03/04/22 09:34*	*03/07/22 19:48*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*03/04/22 09:34*	*03/07/22 19:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**215**		5.00		mg/Kg			03/08/22 13:02	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-11990-1	BH-1 4.1'	107	99										
880-11990-1 MS	BH-1 4.1'	112	83										
880-11990-1 MSD	BH-1 4.1'	103	99										
880-11990-2	BH-2 4.1'	109	95										
880-11990-3	BH-3 4.1'	107	100										
880-11990-4	BH-4 4.1'	109	99										
880-11990-5	BH-5 4.1'	112	86										
880-11990-6	BH-6 4.1'	106	97										
880-11990-7	BH-7 4.1'	135 S1+	85										
880-11990-8	BH-8 4.1'	105	98										
880-11990-9	BH-9 4.1'	100	92										
880-11990-10	BH-10 4.1'	109	96										
880-11990-11	BH-11 4.1'	106	97										
880-11990-12	BH-12 4.1'	105	98										
880-11990-13	BH-13 4.1'	105	98										
880-11990-14	BH-14 4.1'	108	98										
880-11990-15	BH-15 4.1'	106	98										
880-11990-16	BH-16 4.1'	107	98										
880-11990-17	BH-17 4.1'	106	98										
880-11990-18	BH-18 4.1'	107	98										
880-11990-19	BH-19 4.1'	111	88										
880-11990-20	BH-20 4.1'	104	34 S1-										
880-11990-21	BH-21 4.1'	108	101										
880-11990-22	BH-22 4.1'	97	94										
880-11990-23	BH-23 4.1'	106	103										
880-11990-24	BH-24 4.1'	106	100										
880-11990-25	BH-25 4.1'	103	100										
880-11990-26	BH-26 4.1'	107	103										
880-11990-27	BH-27 4.1'	106	103										
880-11990-28	BH-28 4.1'	104	99										
880-11990-29	SW-1 0-4.1'	112	95										
880-11990-30	SW-2 0-4.1'	108	101										
880-11990-31	SW-3 0-4.1'	102	101										
880-11990-32	SW-4 0-4.1'	104	102										
880-11990-33	SW-5 0-4.1'	108	96										
880-11990-34	SW-6 0-4.1'	105	101										
880-11990-35	SW-7 0-4.1'	105	93										
880-11990-36	SW-8 0-4.1'	104	99										
880-11990-37	SW-9 0-4.1'	104	97										
880-11990-38	SW-10 0-4.1'	104	103										
880-12094-A-1-D MS	Matrix Spike	104	102										
880-12094-A-1-E MSD	Matrix Spike Duplicate	102	101										
880-12112-A-1-C MSD	Matrix Spike Duplicate	105	102										
880-12112-A-1-D MS	Matrix Spike	102	101										
890-2042-A-1-H MS	Matrix Spike	101	101										
890-2042-A-1-I MSD	Matrix Spike Duplicate	108	96										
LCS 880-20786/1-A	Lab Control Sample	99	101										
LCS 880-20905/1-A	Lab Control Sample	100	100										
LCS 880-21013/1-A	Lab Control Sample	98	103										

Surrogate Summary

Client: Larson & Associates, Inc.
Job ID: 880-11990-1
Project/Site: Salado Draw 24 CTB Produced Water
SDG: 21-0100-01

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

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-21114/1-A	Lab Control Sample	97	101
LCSD 880-20786/2-A	Lab Control Sample Dup	102	91
LCSD 880-20905/2-A	Lab Control Sample Dup	101	100
LCSD 880-21013/2-A	Lab Control Sample Dup	97	101
LCSD 880-21114/2-A	Lab Control Sample Dup	96	98
MB 880-20786/5-A	Method Blank	105	94
MB 880-20905/5-A	Method Blank	95	94
MB 880-20915/5-A	Method Blank	103	95
MB 880-21013/5-A	Method Blank	99	100
MB 880-21114/5-A	Method Blank	98	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-11990-1	BH-1 4.1'	118	120
880-11990-1 MS	BH-1 4.1'	142 S1+	127
880-11990-1 MSD	BH-1 4.1'	121	106
880-11990-2	BH-2 4.1'	113	118
880-11990-3	BH-3 4.1'	109	115
880-11990-4	BH-4 4.1'	117	123
880-11990-5	BH-5 4.1'	126	137 S1+
880-11990-6	BH-6 4.1'	120	123
880-11990-7	BH-7 4.1'	117	120
880-11990-8	BH-8 4.1'	114	115
880-11990-9	BH-9 4.1'	114	117
880-11990-10	BH-10 4.1'	112	117
880-11990-11	BH-11 4.1'	109	114
880-11990-12	BH-12 4.1'	129	133 S1+
880-11990-13	BH-13 4.1'	106	109
880-11990-14	BH-14 4.1'	125	128
880-11990-15	BH-15 4.1'	108	111
880-11990-16	BH-16 4.1'	144 S1+	150 S1+
880-11990-17	BH-17 4.1'	114	114
880-11990-18	BH-18 4.1'	128	133 S1+
880-11990-19	BH-19 4.1'	141 S1+	147 S1+
880-11990-20	BH-20 4.1'	117	119
880-11990-21	BH-21 4.1'	114	110
880-11990-21 MS	BH-21 4.1'	100	91
880-11990-21 MSD	BH-21 4.1'	99	86
880-11990-22	BH-22 4.1'	113	110
880-11990-23	BH-23 4.1'	110	107
880-11990-24	BH-24 4.1'	107	108
880-11990-25	BH-25 4.1'	116	115
880-11990-26	BH-26 4.1'	118	116

Surrogate Summary

Client: Larson & Associates, Inc.
Job ID: 880-11990-1
Project/Site: Salado Draw 24 CTB Produced Water
SDG: 21-0100-01

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

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-11990-27	BH-27 4.1'	111	110								
880-11990-28	BH-28 4.1'	112	106								
880-11990-29	SW-1 0-4.1'	101	94								
880-11990-30	SW-2 0-4.1'	105	92								
880-11990-31	SW-3 0-4.1'	118	112								
880-11990-32	SW-4 0-4.1'	111	107								
880-11990-33	SW-5 0-4.1'	116	116								
880-11990-34	SW-6 0-4.1'	100	94								
880-11990-35	SW-7 0-4.1'	98	88								
880-11990-36	SW-8 0-4.1'	112	109								
880-11990-37	SW-9 0-4.1'	115	108								
880-11990-38	SW-10 0-4.1'	121	117								
LCS 880-20831/2-A	Lab Control Sample	96	86								
LCS 880-20867/2-A	Lab Control Sample	130	122								
LCSD 880-20831/3-A	Lab Control Sample Dup	96	90								
LCSD 880-20867/3-A	Lab Control Sample Dup	129	116								
MB 880-20831/1-A	Method Blank	104	113								
MB 880-20867/1-A	Method Blank	101	101								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20786/5-A
Matrix: Solid
Analysis Batch: 21109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20786

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 11:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 11:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 11:43	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/08/22 08:30	03/08/22 11:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:30	03/08/22 11:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/08/22 08:30	03/08/22 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/08/22 08:30*	*03/08/22 11:43*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/08/22 08:30*	*03/08/22 11:43*	*1*

Lab Sample ID: LCS 880-20786/1-A
Matrix: Solid
Analysis Batch: 21109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20786

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1100		mg/Kg		110	70 - 130		
Toluene			0.100	0.1058		mg/Kg		106	70 - 130		
Ethylbenzene			0.100	0.1032		mg/Kg		103	70 - 130		
m,p-Xylenes			0.200	0.2156		mg/Kg		108	70 - 130		
o-Xylene			0.100	0.1031		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-20786/2-A
Matrix: Solid
Analysis Batch: 21109

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20786

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1149		mg/Kg		115	70 - 130	4	35
Toluene			0.100	0.1126		mg/Kg		113	70 - 130	6	35
Ethylbenzene			0.100	0.1112		mg/Kg		111	70 - 130	7	35
m,p-Xylenes			0.200	0.2326		mg/Kg		116	70 - 130	8	35
o-Xylene			0.100	0.1114		mg/Kg		111	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 880-12094-A-1-D MS
Matrix: Solid
Analysis Batch: 21109

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 20786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00201	U	0.0990	0.1162		mg/Kg		117	70 - 130		
Toluene	<0.00201	U	0.0990	0.1126		mg/Kg		114	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

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

Lab Sample ID: 880-12094-A-1-D MS
Matrix: Solid
Analysis Batch: 21109

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 20786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00201	U	0.0990	0.1094		mg/Kg		110	70 - 130
m,p-Xylenes	<0.00402	U	0.198	0.2294		mg/Kg		116	70 - 130
o-Xylene	<0.00201	U	0.0990	0.1111		mg/Kg		112	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-12094-A-1-E MSD
Matrix: Solid
Analysis Batch: 21109

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 20786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.1012		mg/Kg		102	70 - 130	14	35
Toluene	<0.00201	U	0.0990	0.09714		mg/Kg		98	70 - 130	15	35
Ethylbenzene	<0.00201	U	0.0990	0.09359		mg/Kg		95	70 - 130	16	35
m,p-Xylenes	<0.00402	U	0.198	0.1964		mg/Kg		99	70 - 130	16	35
o-Xylene	<0.00201	U	0.0990	0.09555		mg/Kg		97	70 - 130	15	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 880-20905/5-A
Matrix: Solid
Analysis Batch: 21007

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20905

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/07/22 23:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/07/22 23:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/07/22 23:01	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/07/22 12:42	03/07/22 23:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:42	03/07/22 23:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 12:42	03/07/22 23:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/07/22 12:42*	*03/07/22 23:01*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/07/22 12:42*	*03/07/22 23:01*	*1*

Lab Sample ID: LCS 880-20905/1-A
Matrix: Solid
Analysis Batch: 21007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1086		mg/Kg		109	70 - 130
Toluene	0.100	0.1050		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130
m,p-Xylenes	0.200	0.2126		mg/Kg		106	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

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

Lab Sample ID: LCS 880-20905/1-A
Matrix: Solid
Analysis Batch: 21007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20905

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o-Xylene			0.100	0.1042		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-20905/2-A
Matrix: Solid
Analysis Batch: 21007

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20905

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1060		mg/Kg		106	70 - 130	2	35
Toluene			0.100	0.1023		mg/Kg		102	70 - 130	3	35
Ethylbenzene			0.100	0.1004		mg/Kg		100	70 - 130	3	35
m,p-Xylenes			0.200	0.2069		mg/Kg		103	70 - 130	3	35
o-Xylene			0.100	0.1018		mg/Kg		102	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-11990-1 MS
Matrix: Solid
Analysis Batch: 21007

Client Sample ID: BH-1 4.1'
Prep Type: Total/NA
Prep Batch: 20905

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F2 F1	0.101	<0.00201	U F1	mg/Kg		1	70 - 130		
Toluene	<0.00199	U F2 F1	0.101	0.03756	F1	mg/Kg		37	70 - 130		
Ethylbenzene	<0.00199	U F2 F1	0.101	0.04167	F1	mg/Kg		41	70 - 130		
m,p-Xylenes	<0.00398	U F2 F1	0.201	0.08502	F1	mg/Kg		42	70 - 130		
o-Xylene	<0.00199	U F2 F1	0.101	0.04543	F1	mg/Kg		45	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*

Lab Sample ID: 880-11990-1 MSD
Matrix: Solid
Analysis Batch: 21007

Client Sample ID: BH-1 4.1'
Prep Type: Total/NA
Prep Batch: 20905

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.0998	0.07537	F2	mg/Kg		76	70 - 130	193	35
Toluene	<0.00199	U F2 F1	0.0998	0.07421	F2	mg/Kg		74	70 - 130	66	35
Ethylbenzene	<0.00199	U F2 F1	0.0998	0.07423	F2	mg/Kg		74	70 - 130	56	35
m,p-Xylenes	<0.00398	U F2 F1	0.200	0.1530	F2	mg/Kg		77	70 - 130	57	35
o-Xylene	<0.00199	U F2 F1	0.0998	0.07364	F2	mg/Kg		74	70 - 130	47	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

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

Lab Sample ID: 880-11990-1 MSD
Matrix: Solid
Analysis Batch: 21007

Client Sample ID: BH-1 4.1'
Prep Type: Total/NA
Prep Batch: 20905

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-20915/5-A
Matrix: Solid
Analysis Batch: 21007

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20915

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 07:45	03/07/22 11:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 07:45	03/07/22 11:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 07:45	03/07/22 11:04	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/07/22 07:45	03/07/22 11:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 07:45	03/07/22 11:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 07:45	03/07/22 11:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/07/22 07:45	03/07/22 11:04	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/07/22 07:45	03/07/22 11:04	1

Lab Sample ID: MB 880-21013/5-A
Matrix: Solid
Analysis Batch: 21110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21013

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/22 09:57	03/09/22 02:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/22 09:57	03/09/22 02:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/22 09:57	03/09/22 02:44	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/08/22 09:57	03/09/22 02:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/22 09:57	03/09/22 02:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/08/22 09:57	03/09/22 02:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/08/22 09:57	03/09/22 02:44	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/08/22 09:57	03/09/22 02:44	1

Lab Sample ID: LCS 880-21013/1-A
Matrix: Solid
Analysis Batch: 21110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21013

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1110		mg/Kg		111	70 - 130		
Toluene			0.100	0.1037		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.09979		mg/Kg		100	70 - 130		
m,p-Xylenes			0.200	0.2298		mg/Kg		115	70 - 130		
o-Xylene			0.100	0.1133		mg/Kg		113	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

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

Lab Sample ID: LCS 880-21013/1-A
Matrix: Solid
Analysis Batch: 21110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21013

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-21013/2-A
Matrix: Solid
Analysis Batch: 21110

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21013

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1066		mg/Kg		107	70 - 130	4	35
Toluene			0.100	0.1018		mg/Kg		102	70 - 130	2	35
Ethylbenzene			0.100	0.09896		mg/Kg		99	70 - 130	1	35
m,p-Xylenes			0.200	0.2238		mg/Kg		112	70 - 130	3	35
o-Xylene			0.100	0.1103		mg/Kg		110	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-2042-A-1-H MS
Matrix: Solid
Analysis Batch: 21110

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 21013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00198	U F1	0.101	0.06538	F1	mg/Kg		64	70 - 130		
Toluene	<0.00198	U F1	0.101	0.06331	F1	mg/Kg		61	70 - 130		
Ethylbenzene	<0.00198	U F1	0.101	0.06404	F1	mg/Kg		63	70 - 130		
m,p-Xylenes	<0.00397	U F1	0.202	0.1501		mg/Kg		74	70 - 130		
o-Xylene	<0.00198	U F1	0.101	0.07585		mg/Kg		75	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-2042-A-1-I MSD
Matrix: Solid
Analysis Batch: 21110

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 21013

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.101	0.04967	F1	mg/Kg		49	70 - 130	27	35
Toluene	<0.00198	U F1	0.101	0.05166	F1	mg/Kg		50	70 - 130	20	35
Ethylbenzene	<0.00198	U F1	0.101	0.05608	F1	mg/Kg		55	70 - 130	13	35
m,p-Xylenes	<0.00397	U F1	0.202	0.1323	F1	mg/Kg		65	70 - 130	13	35
o-Xylene	<0.00198	U F1	0.101	0.06763	F1	mg/Kg		66	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

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

Lab Sample ID: MB 880-21114/5-A
Matrix: Solid
Analysis Batch: 21110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21114

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:59	03/08/22 15:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:59	03/08/22 15:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:59	03/08/22 15:07	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/08/22 08:59	03/08/22 15:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/22 08:59	03/08/22 15:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/08/22 08:59	03/08/22 15:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/08/22 08:59*	*03/08/22 15:07*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/08/22 08:59*	*03/08/22 15:07*	*1*

Lab Sample ID: LCS 880-21114/1-A
Matrix: Solid
Analysis Batch: 21110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21114

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1005		mg/Kg		101	70 - 130		
Toluene			0.100	0.09834		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.09830		mg/Kg		98	70 - 130		
m,p-Xylenes			0.200	0.2302		mg/Kg		115	70 - 130		
o-Xylene			0.100	0.1115		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-21114/2-A
Matrix: Solid
Analysis Batch: 21110

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21114

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09654		mg/Kg		97	70 - 130	4	35
Toluene			0.100	0.09767		mg/Kg		98	70 - 130	1	35
Ethylbenzene			0.100	0.09749		mg/Kg		97	70 - 130	1	35
m,p-Xylenes			0.200	0.2285		mg/Kg		114	70 - 130	1	35
o-Xylene			0.100	0.1112		mg/Kg		111	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-12112-A-1-C MSD
Matrix: Solid
Analysis Batch: 21110

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 21114

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.09620		mg/Kg					
Toluene	0.00280		0.100	0.08505		mg/Kg					

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

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

Lab Sample ID: 880-12112-A-1-C MSD
Matrix: Solid
Analysis Batch: 21110

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 21114

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.00736		0.100	0.07556		mg/Kg					
m,p-Xylenes	0.0251		0.201	0.1742		mg/Kg					
o-Xylene	0.0134		0.100	0.08581		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-12112-A-1-D MS
Matrix: Solid
Analysis Batch: 21110

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 21114

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-20831/1-A
Matrix: Solid
Analysis Batch: 21198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20831

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/09/22 21:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/09/22 21:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/03/22 15:56	03/09/22 21:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*03/03/22 15:56*	*03/09/22 21:02*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*03/03/22 15:56*	*03/09/22 21:02*	*1*

Lab Sample ID: LCS 880-20831/2-A
Matrix: Solid
Analysis Batch: 21198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20831

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1134		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	795.2		mg/Kg		80	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*96*		*70 - 130*
o-Terphenyl (Surr)	*86*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

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

Lab Sample ID: LCSD 880-20831/3-A
Matrix: Solid
Analysis Batch: 21198

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20831

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1086		mg/Kg		109	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	806.7		mg/Kg		81	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*96*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-11990-1 MS
Matrix: Solid
Analysis Batch: 21198

Client Sample ID: BH-1 4.1'
Prep Type: Total/NA
Prep Batch: 20831

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	1000	1283		mg/Kg		127	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1251		mg/Kg		125	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*142*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*127*		*70 - 130*

Lab Sample ID: 880-11990-1 MSD
Matrix: Solid
Analysis Batch: 21198

Client Sample ID: BH-1 4.1'
Prep Type: Total/NA
Prep Batch: 20831

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	998	1022	F2	mg/Kg		101	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1047		mg/Kg		105	70 - 130	18	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*121*		*70 - 130*
o-Terphenyl (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-20867/1-A
Matrix: Solid
Analysis Batch: 21014

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20867

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 11:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 11:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 09:34	03/07/22 11:45	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

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

Lab Sample ID: MB 880-20867/1-A
Matrix: Solid
Analysis Batch: 21014

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20867

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	03/04/22 09:34	03/07/22 11:45	1
o-Terphenyl (Surr)	101		70 - 130	03/04/22 09:34	03/07/22 11:45	1

Lab Sample ID: LCS 880-20867/2-A
Matrix: Solid
Analysis Batch: 21014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20867

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1110		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1211		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	130		70 - 130
o-Terphenyl (Surr)	122		70 - 130

Lab Sample ID: LCSD 880-20867/3-A
Matrix: Solid
Analysis Batch: 21014

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20867

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1049		mg/Kg		105	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1106		mg/Kg		111	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	129		70 - 130
o-Terphenyl (Surr)	116		70 - 130

Lab Sample ID: 880-11990-21 MS
Matrix: Solid
Analysis Batch: 21014

Client Sample ID: BH-21 4.1'
Prep Type: Total/NA
Prep Batch: 20867

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	891.1		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	906.1		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	91		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

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

Lab Sample ID: 880-11990-21 MSD
Matrix: Solid
Analysis Batch: 21014

Client Sample ID: BH-21 4.1'
Prep Type: Total/NA
Prep Batch: 20867

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	914.5		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	868.1		mg/Kg		87	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*99*		*70 - 130*
o-Terphenyl (Surr)	*86*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20810/1-A
Matrix: Solid
Analysis Batch: 21040

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/08/22 12:47	1

Lab Sample ID: LCS 880-20810/2-A
Matrix: Solid
Analysis Batch: 21040

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	259.2		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-20810/3-A
Matrix: Solid
Analysis Batch: 21040

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	257.0		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-11990-9 MS
Matrix: Solid
Analysis Batch: 21040

Client Sample ID: BH-9 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	5930		2520	8462		mg/Kg		100	90 - 110		

Lab Sample ID: 880-11990-9 MSD
Matrix: Solid
Analysis Batch: 21040

Client Sample ID: BH-9 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5930		2520	8407		mg/Kg		98	90 - 110	1	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-20811/1-A
Matrix: Solid
Analysis Batch: 21041

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/08/22 08:36	1

Lab Sample ID: LCS 880-20811/2-A
Matrix: Solid
Analysis Batch: 21041

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	257.3		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-20811/3-A
Matrix: Solid
Analysis Batch: 21041

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	256.0		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-11990-19 MS
Matrix: Solid
Analysis Batch: 21041

Client Sample ID: BH-19 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	9760		4960	14970		mg/Kg		105	90 - 110		

Lab Sample ID: 880-11990-19 MSD
Matrix: Solid
Analysis Batch: 21041

Client Sample ID: BH-19 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9760		4960	14680		mg/Kg		99	90 - 110	2	20

Lab Sample ID: 880-11990-29 MS
Matrix: Solid
Analysis Batch: 21041

Client Sample ID: SW-1 0-4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	4310		2530	6863		mg/Kg		101	90 - 110		

Lab Sample ID: 880-11990-29 MSD
Matrix: Solid
Analysis Batch: 21041

Client Sample ID: SW-1 0-4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4310		2530	6786		mg/Kg		98	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

GC VOA

Prep Batch: 20786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-28	BH-28 4.1'	Total/NA	Solid	5035	
880-11990-29	SW-1 0-4.1'	Total/NA	Solid	5035	
880-11990-30	SW-2 0-4.1'	Total/NA	Solid	5035	
880-11990-34	SW-6 0-4.1'	Total/NA	Solid	5035	
880-11990-35	SW-7 0-4.1'	Total/NA	Solid	5035	
880-11990-36	SW-8 0-4.1'	Total/NA	Solid	5035	
880-11990-37	SW-9 0-4.1'	Total/NA	Solid	5035	
MB 880-20786/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20786/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20786/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12094-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-12094-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 20905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-1	BH-1 4.1'	Total/NA	Solid	5035	
880-11990-2	BH-2 4.1'	Total/NA	Solid	5035	
880-11990-3	BH-3 4.1'	Total/NA	Solid	5035	
880-11990-4	BH-4 4.1'	Total/NA	Solid	5035	
880-11990-5	BH-5 4.1'	Total/NA	Solid	5035	
880-11990-6	BH-6 4.1'	Total/NA	Solid	5035	
880-11990-7	BH-7 4.1'	Total/NA	Solid	5035	
880-11990-8	BH-8 4.1'	Total/NA	Solid	5035	
880-11990-9	BH-9 4.1'	Total/NA	Solid	5035	
880-11990-10	BH-10 4.1'	Total/NA	Solid	5035	
880-11990-11	BH-11 4.1'	Total/NA	Solid	5035	
880-11990-12	BH-12 4.1'	Total/NA	Solid	5035	
880-11990-13	BH-13 4.1'	Total/NA	Solid	5035	
880-11990-14	BH-14 4.1'	Total/NA	Solid	5035	
880-11990-15	BH-15 4.1'	Total/NA	Solid	5035	
880-11990-16	BH-16 4.1'	Total/NA	Solid	5035	
880-11990-17	BH-17 4.1'	Total/NA	Solid	5035	
880-11990-18	BH-18 4.1'	Total/NA	Solid	5035	
880-11990-19	BH-19 4.1'	Total/NA	Solid	5035	
880-11990-20	BH-20 4.1'	Total/NA	Solid	5035	
MB 880-20905/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20905/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20905/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11990-1 MS	BH-1 4.1'	Total/NA	Solid	5035	
880-11990-1 MSD	BH-1 4.1'	Total/NA	Solid	5035	

Prep Batch: 20915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20915/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 21007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-1	BH-1 4.1'	Total/NA	Solid	8021B	20905
880-11990-2	BH-2 4.1'	Total/NA	Solid	8021B	20905
880-11990-3	BH-3 4.1'	Total/NA	Solid	8021B	20905
880-11990-4	BH-4 4.1'	Total/NA	Solid	8021B	20905

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

GC VOA (Continued)

Analysis Batch: 21007 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-5	BH-5 4.1'	Total/NA	Solid	8021B	20905
880-11990-6	BH-6 4.1'	Total/NA	Solid	8021B	20905
880-11990-7	BH-7 4.1'	Total/NA	Solid	8021B	20905
880-11990-8	BH-8 4.1'	Total/NA	Solid	8021B	20905
880-11990-9	BH-9 4.1'	Total/NA	Solid	8021B	20905
880-11990-10	BH-10 4.1'	Total/NA	Solid	8021B	20905
880-11990-11	BH-11 4.1'	Total/NA	Solid	8021B	20905
880-11990-12	BH-12 4.1'	Total/NA	Solid	8021B	20905
880-11990-13	BH-13 4.1'	Total/NA	Solid	8021B	20905
880-11990-14	BH-14 4.1'	Total/NA	Solid	8021B	20905
880-11990-15	BH-15 4.1'	Total/NA	Solid	8021B	20905
880-11990-16	BH-16 4.1'	Total/NA	Solid	8021B	20905
880-11990-17	BH-17 4.1'	Total/NA	Solid	8021B	20905
880-11990-18	BH-18 4.1'	Total/NA	Solid	8021B	20905
880-11990-19	BH-19 4.1'	Total/NA	Solid	8021B	20905
880-11990-20	BH-20 4.1'	Total/NA	Solid	8021B	20905
MB 880-20905/5-A	Method Blank	Total/NA	Solid	8021B	20905
MB 880-20915/5-A	Method Blank	Total/NA	Solid	8021B	20915
LCS 880-20905/1-A	Lab Control Sample	Total/NA	Solid	8021B	20905
LCSD 880-20905/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20905
880-11990-1 MS	BH-1 4.1'	Total/NA	Solid	8021B	20905
880-11990-1 MSD	BH-1 4.1'	Total/NA	Solid	8021B	20905

Prep Batch: 21013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-31	SW-3 0-4.1'	Total/NA	Solid	5035	
880-11990-32	SW-4 0-4.1'	Total/NA	Solid	5035	
880-11990-33	SW-5 0-4.1'	Total/NA	Solid	5035	
MB 880-21013/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21013/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21013/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2042-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
890-2042-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 21109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-28	BH-28 4.1'	Total/NA	Solid	8021B	20786
880-11990-29	SW-1 0-4.1'	Total/NA	Solid	8021B	20786
880-11990-30	SW-2 0-4.1'	Total/NA	Solid	8021B	20786
880-11990-34	SW-6 0-4.1'	Total/NA	Solid	8021B	20786
880-11990-35	SW-7 0-4.1'	Total/NA	Solid	8021B	20786
880-11990-36	SW-8 0-4.1'	Total/NA	Solid	8021B	20786
880-11990-37	SW-9 0-4.1'	Total/NA	Solid	8021B	20786
MB 880-20786/5-A	Method Blank	Total/NA	Solid	8021B	20786
LCS 880-20786/1-A	Lab Control Sample	Total/NA	Solid	8021B	20786
LCSD 880-20786/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20786
880-12094-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	20786
880-12094-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20786

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

GC VOA

Analysis Batch: 21110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-21	BH-21 4.1'	Total/NA	Solid	8021B	21114
880-11990-22	BH-22 4.1'	Total/NA	Solid	8021B	21114
880-11990-23	BH-23 4.1'	Total/NA	Solid	8021B	21114
880-11990-24	BH-24 4.1'	Total/NA	Solid	8021B	21114
880-11990-25	BH-25 4.1'	Total/NA	Solid	8021B	21114
880-11990-26	BH-26 4.1'	Total/NA	Solid	8021B	21114
880-11990-27	BH-27 4.1'	Total/NA	Solid	8021B	21114
880-11990-31	SW-3 0-4.1'	Total/NA	Solid	8021B	21013
880-11990-32	SW-4 0-4.1'	Total/NA	Solid	8021B	21013
880-11990-33	SW-5 0-4.1'	Total/NA	Solid	8021B	21013
880-11990-38	SW-10 0-4.1'	Total/NA	Solid	8021B	21114
MB 880-21013/5-A	Method Blank	Total/NA	Solid	8021B	21013
MB 880-21114/5-A	Method Blank	Total/NA	Solid	8021B	21114
LCS 880-21013/1-A	Lab Control Sample	Total/NA	Solid	8021B	21013
LCS 880-21114/1-A	Lab Control Sample	Total/NA	Solid	8021B	21114
LCSD 880-21013/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21013
LCSD 880-21114/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21114
880-12112-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	21114
880-12112-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	21114
890-2042-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	21013
890-2042-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	21013

Prep Batch: 21114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-21	BH-21 4.1'	Total/NA	Solid	5035	
880-11990-22	BH-22 4.1'	Total/NA	Solid	5035	
880-11990-23	BH-23 4.1'	Total/NA	Solid	5035	
880-11990-24	BH-24 4.1'	Total/NA	Solid	5035	
880-11990-25	BH-25 4.1'	Total/NA	Solid	5035	
880-11990-26	BH-26 4.1'	Total/NA	Solid	5035	
880-11990-27	BH-27 4.1'	Total/NA	Solid	5035	
880-11990-38	SW-10 0-4.1'	Total/NA	Solid	5035	
MB 880-21114/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21114/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21114/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12112-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
880-12112-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 21153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-1	BH-1 4.1'	Total/NA	Solid	Total BTEX	
880-11990-2	BH-2 4.1'	Total/NA	Solid	Total BTEX	
880-11990-3	BH-3 4.1'	Total/NA	Solid	Total BTEX	
880-11990-4	BH-4 4.1'	Total/NA	Solid	Total BTEX	
880-11990-5	BH-5 4.1'	Total/NA	Solid	Total BTEX	
880-11990-6	BH-6 4.1'	Total/NA	Solid	Total BTEX	
880-11990-7	BH-7 4.1'	Total/NA	Solid	Total BTEX	
880-11990-8	BH-8 4.1'	Total/NA	Solid	Total BTEX	
880-11990-9	BH-9 4.1'	Total/NA	Solid	Total BTEX	
880-11990-10	BH-10 4.1'	Total/NA	Solid	Total BTEX	
880-11990-11	BH-11 4.1'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

GC VOA (Continued)

Analysis Batch: 21153 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-12	BH-12 4.1'	Total/NA	Solid	Total BTEX	
880-11990-13	BH-13 4.1'	Total/NA	Solid	Total BTEX	
880-11990-14	BH-14 4.1'	Total/NA	Solid	Total BTEX	
880-11990-15	BH-15 4.1'	Total/NA	Solid	Total BTEX	
880-11990-16	BH-16 4.1'	Total/NA	Solid	Total BTEX	
880-11990-17	BH-17 4.1'	Total/NA	Solid	Total BTEX	
880-11990-18	BH-18 4.1'	Total/NA	Solid	Total BTEX	
880-11990-19	BH-19 4.1'	Total/NA	Solid	Total BTEX	
880-11990-20	BH-20 4.1'	Total/NA	Solid	Total BTEX	
880-11990-21	BH-21 4.1'	Total/NA	Solid	Total BTEX	
880-11990-22	BH-22 4.1'	Total/NA	Solid	Total BTEX	
880-11990-23	BH-23 4.1'	Total/NA	Solid	Total BTEX	
880-11990-24	BH-24 4.1'	Total/NA	Solid	Total BTEX	
880-11990-25	BH-25 4.1'	Total/NA	Solid	Total BTEX	
880-11990-26	BH-26 4.1'	Total/NA	Solid	Total BTEX	
880-11990-27	BH-27 4.1'	Total/NA	Solid	Total BTEX	
880-11990-28	BH-28 4.1'	Total/NA	Solid	Total BTEX	
880-11990-29	SW-1 0-4.1'	Total/NA	Solid	Total BTEX	
880-11990-30	SW-2 0-4.1'	Total/NA	Solid	Total BTEX	
880-11990-31	SW-3 0-4.1'	Total/NA	Solid	Total BTEX	
880-11990-32	SW-4 0-4.1'	Total/NA	Solid	Total BTEX	
880-11990-33	SW-5 0-4.1'	Total/NA	Solid	Total BTEX	
880-11990-34	SW-6 0-4.1'	Total/NA	Solid	Total BTEX	
880-11990-35	SW-7 0-4.1'	Total/NA	Solid	Total BTEX	
880-11990-36	SW-8 0-4.1'	Total/NA	Solid	Total BTEX	
880-11990-37	SW-9 0-4.1'	Total/NA	Solid	Total BTEX	
880-11990-38	SW-10 0-4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 20831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-1	BH-1 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-2	BH-2 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-3	BH-3 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-4	BH-4 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-5	BH-5 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-6	BH-6 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-7	BH-7 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-8	BH-8 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-9	BH-9 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-10	BH-10 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-11	BH-11 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-12	BH-12 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-13	BH-13 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-14	BH-14 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-15	BH-15 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-16	BH-16 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-17	BH-17 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-18	BH-18 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-19	BH-19 4.1'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

GC Semi VOA (Continued)

Prep Batch: 20831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-20	BH-20 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-20831/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20831/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20831/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11990-1 MS	BH-1 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-1 MSD	BH-1 4.1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 20867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-21	BH-21 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-22	BH-22 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-23	BH-23 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-24	BH-24 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-25	BH-25 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-26	BH-26 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-27	BH-27 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-28	BH-28 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-29	SW-1 0-4.1'	Total/NA	Solid	8015NM Prep	
880-11990-30	SW-2 0-4.1'	Total/NA	Solid	8015NM Prep	
880-11990-31	SW-3 0-4.1'	Total/NA	Solid	8015NM Prep	
880-11990-32	SW-4 0-4.1'	Total/NA	Solid	8015NM Prep	
880-11990-33	SW-5 0-4.1'	Total/NA	Solid	8015NM Prep	
880-11990-34	SW-6 0-4.1'	Total/NA	Solid	8015NM Prep	
880-11990-35	SW-7 0-4.1'	Total/NA	Solid	8015NM Prep	
880-11990-36	SW-8 0-4.1'	Total/NA	Solid	8015NM Prep	
880-11990-37	SW-9 0-4.1'	Total/NA	Solid	8015NM Prep	
880-11990-38	SW-10 0-4.1'	Total/NA	Solid	8015NM Prep	
MB 880-20867/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20867/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20867/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11990-21 MS	BH-21 4.1'	Total/NA	Solid	8015NM Prep	
880-11990-21 MSD	BH-21 4.1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-21	BH-21 4.1'	Total/NA	Solid	8015B NM	20867
880-11990-22	BH-22 4.1'	Total/NA	Solid	8015B NM	20867
880-11990-23	BH-23 4.1'	Total/NA	Solid	8015B NM	20867
880-11990-24	BH-24 4.1'	Total/NA	Solid	8015B NM	20867
880-11990-25	BH-25 4.1'	Total/NA	Solid	8015B NM	20867
880-11990-26	BH-26 4.1'	Total/NA	Solid	8015B NM	20867
880-11990-27	BH-27 4.1'	Total/NA	Solid	8015B NM	20867
880-11990-28	BH-28 4.1'	Total/NA	Solid	8015B NM	20867
880-11990-29	SW-1 0-4.1'	Total/NA	Solid	8015B NM	20867
880-11990-30	SW-2 0-4.1'	Total/NA	Solid	8015B NM	20867
880-11990-31	SW-3 0-4.1'	Total/NA	Solid	8015B NM	20867
880-11990-32	SW-4 0-4.1'	Total/NA	Solid	8015B NM	20867
880-11990-33	SW-5 0-4.1'	Total/NA	Solid	8015B NM	20867
880-11990-34	SW-6 0-4.1'	Total/NA	Solid	8015B NM	20867
880-11990-35	SW-7 0-4.1'	Total/NA	Solid	8015B NM	20867
880-11990-36	SW-8 0-4.1'	Total/NA	Solid	8015B NM	20867

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

GC Semi VOA (Continued)

Analysis Batch: 21014 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-37	SW-9 0-4.1'	Total/NA	Solid	8015B NM	20867
880-11990-38	SW-10 0-4.1'	Total/NA	Solid	8015B NM	20867
MB 880-20867/1-A	Method Blank	Total/NA	Solid	8015B NM	20867
LCS 880-20867/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20867
LCSD 880-20867/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20867
880-11990-21 MS	BH-21 4.1'	Total/NA	Solid	8015B NM	20867
880-11990-21 MSD	BH-21 4.1'	Total/NA	Solid	8015B NM	20867

Analysis Batch: 21099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-1	BH-1 4.1'	Total/NA	Solid	8015 NM	
880-11990-2	BH-2 4.1'	Total/NA	Solid	8015 NM	
880-11990-3	BH-3 4.1'	Total/NA	Solid	8015 NM	
880-11990-4	BH-4 4.1'	Total/NA	Solid	8015 NM	
880-11990-5	BH-5 4.1'	Total/NA	Solid	8015 NM	
880-11990-6	BH-6 4.1'	Total/NA	Solid	8015 NM	
880-11990-7	BH-7 4.1'	Total/NA	Solid	8015 NM	
880-11990-8	BH-8 4.1'	Total/NA	Solid	8015 NM	
880-11990-9	BH-9 4.1'	Total/NA	Solid	8015 NM	
880-11990-10	BH-10 4.1'	Total/NA	Solid	8015 NM	
880-11990-11	BH-11 4.1'	Total/NA	Solid	8015 NM	
880-11990-12	BH-12 4.1'	Total/NA	Solid	8015 NM	
880-11990-13	BH-13 4.1'	Total/NA	Solid	8015 NM	
880-11990-14	BH-14 4.1'	Total/NA	Solid	8015 NM	
880-11990-15	BH-15 4.1'	Total/NA	Solid	8015 NM	
880-11990-16	BH-16 4.1'	Total/NA	Solid	8015 NM	
880-11990-17	BH-17 4.1'	Total/NA	Solid	8015 NM	
880-11990-18	BH-18 4.1'	Total/NA	Solid	8015 NM	
880-11990-19	BH-19 4.1'	Total/NA	Solid	8015 NM	
880-11990-20	BH-20 4.1'	Total/NA	Solid	8015 NM	
880-11990-21	BH-21 4.1'	Total/NA	Solid	8015 NM	
880-11990-22	BH-22 4.1'	Total/NA	Solid	8015 NM	
880-11990-23	BH-23 4.1'	Total/NA	Solid	8015 NM	
880-11990-24	BH-24 4.1'	Total/NA	Solid	8015 NM	
880-11990-25	BH-25 4.1'	Total/NA	Solid	8015 NM	
880-11990-26	BH-26 4.1'	Total/NA	Solid	8015 NM	
880-11990-27	BH-27 4.1'	Total/NA	Solid	8015 NM	
880-11990-28	BH-28 4.1'	Total/NA	Solid	8015 NM	
880-11990-29	SW-1 0-4.1'	Total/NA	Solid	8015 NM	
880-11990-30	SW-2 0-4.1'	Total/NA	Solid	8015 NM	
880-11990-31	SW-3 0-4.1'	Total/NA	Solid	8015 NM	
880-11990-32	SW-4 0-4.1'	Total/NA	Solid	8015 NM	
880-11990-33	SW-5 0-4.1'	Total/NA	Solid	8015 NM	
880-11990-34	SW-6 0-4.1'	Total/NA	Solid	8015 NM	
880-11990-35	SW-7 0-4.1'	Total/NA	Solid	8015 NM	
880-11990-36	SW-8 0-4.1'	Total/NA	Solid	8015 NM	
880-11990-37	SW-9 0-4.1'	Total/NA	Solid	8015 NM	
880-11990-38	SW-10 0-4.1'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

GC Semi VOA

Analysis Batch: 21198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-1	BH-1 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-2	BH-2 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-3	BH-3 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-4	BH-4 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-5	BH-5 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-6	BH-6 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-7	BH-7 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-8	BH-8 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-9	BH-9 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-10	BH-10 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-11	BH-11 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-12	BH-12 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-13	BH-13 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-14	BH-14 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-15	BH-15 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-16	BH-16 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-17	BH-17 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-18	BH-18 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-19	BH-19 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-20	BH-20 4.1'	Total/NA	Solid	8015B NM	20831
MB 880-20831/1-A	Method Blank	Total/NA	Solid	8015B NM	20831
LCS 880-20831/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20831
LCSD 880-20831/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20831
880-11990-1 MS	BH-1 4.1'	Total/NA	Solid	8015B NM	20831
880-11990-1 MSD	BH-1 4.1'	Total/NA	Solid	8015B NM	20831

HPLC/IC

Leach Batch: 20810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-1	BH-1 4.1'	Soluble	Solid	DI Leach	
880-11990-2	BH-2 4.1'	Soluble	Solid	DI Leach	
880-11990-3	BH-3 4.1'	Soluble	Solid	DI Leach	
880-11990-4	BH-4 4.1'	Soluble	Solid	DI Leach	
880-11990-5	BH-5 4.1'	Soluble	Solid	DI Leach	
880-11990-6	BH-6 4.1'	Soluble	Solid	DI Leach	
880-11990-7	BH-7 4.1'	Soluble	Solid	DI Leach	
880-11990-8	BH-8 4.1'	Soluble	Solid	DI Leach	
880-11990-9	BH-9 4.1'	Soluble	Solid	DI Leach	
880-11990-10	BH-10 4.1'	Soluble	Solid	DI Leach	
880-11990-11	BH-11 4.1'	Soluble	Solid	DI Leach	
880-11990-12	BH-12 4.1'	Soluble	Solid	DI Leach	
880-11990-13	BH-13 4.1'	Soluble	Solid	DI Leach	
880-11990-14	BH-14 4.1'	Soluble	Solid	DI Leach	
880-11990-15	BH-15 4.1'	Soluble	Solid	DI Leach	
880-11990-16	BH-16 4.1'	Soluble	Solid	DI Leach	
880-11990-17	BH-17 4.1'	Soluble	Solid	DI Leach	
880-11990-18	BH-18 4.1'	Soluble	Solid	DI Leach	
MB 880-20810/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20810/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20810/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

HPLC/IC (Continued)

Leach Batch: 20810 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-9 MS	BH-9 4.1'	Soluble	Solid	DI Leach	
880-11990-9 MSD	BH-9 4.1'	Soluble	Solid	DI Leach	

Leach Batch: 20811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-19	BH-19 4.1'	Soluble	Solid	DI Leach	
880-11990-20	BH-20 4.1'	Soluble	Solid	DI Leach	
880-11990-21	BH-21 4.1'	Soluble	Solid	DI Leach	
880-11990-22	BH-22 4.1'	Soluble	Solid	DI Leach	
880-11990-23	BH-23 4.1'	Soluble	Solid	DI Leach	
880-11990-24	BH-24 4.1'	Soluble	Solid	DI Leach	
880-11990-25	BH-25 4.1'	Soluble	Solid	DI Leach	
880-11990-26	BH-26 4.1'	Soluble	Solid	DI Leach	
880-11990-27	BH-27 4.1'	Soluble	Solid	DI Leach	
880-11990-28	BH-28 4.1'	Soluble	Solid	DI Leach	
880-11990-29	SW-1 0-4.1'	Soluble	Solid	DI Leach	
880-11990-30	SW-2 0-4.1'	Soluble	Solid	DI Leach	
880-11990-31	SW-3 0-4.1'	Soluble	Solid	DI Leach	
880-11990-32	SW-4 0-4.1'	Soluble	Solid	DI Leach	
880-11990-33	SW-5 0-4.1'	Soluble	Solid	DI Leach	
880-11990-34	SW-6 0-4.1'	Soluble	Solid	DI Leach	
880-11990-35	SW-7 0-4.1'	Soluble	Solid	DI Leach	
880-11990-36	SW-8 0-4.1'	Soluble	Solid	DI Leach	
880-11990-37	SW-9 0-4.1'	Soluble	Solid	DI Leach	
880-11990-38	SW-10 0-4.1'	Soluble	Solid	DI Leach	
MB 880-20811/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20811/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20811/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11990-19 MS	BH-19 4.1'	Soluble	Solid	DI Leach	
880-11990-19 MSD	BH-19 4.1'	Soluble	Solid	DI Leach	
880-11990-29 MS	SW-1 0-4.1'	Soluble	Solid	DI Leach	
880-11990-29 MSD	SW-1 0-4.1'	Soluble	Solid	DI Leach	

Analysis Batch: 21040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-1	BH-1 4.1'	Soluble	Solid	300.0	20810
880-11990-2	BH-2 4.1'	Soluble	Solid	300.0	20810
880-11990-3	BH-3 4.1'	Soluble	Solid	300.0	20810
880-11990-4	BH-4 4.1'	Soluble	Solid	300.0	20810
880-11990-5	BH-5 4.1'	Soluble	Solid	300.0	20810
880-11990-6	BH-6 4.1'	Soluble	Solid	300.0	20810
880-11990-7	BH-7 4.1'	Soluble	Solid	300.0	20810
880-11990-8	BH-8 4.1'	Soluble	Solid	300.0	20810
880-11990-9	BH-9 4.1'	Soluble	Solid	300.0	20810
880-11990-10	BH-10 4.1'	Soluble	Solid	300.0	20810
880-11990-11	BH-11 4.1'	Soluble	Solid	300.0	20810
880-11990-12	BH-12 4.1'	Soluble	Solid	300.0	20810
880-11990-13	BH-13 4.1'	Soluble	Solid	300.0	20810
880-11990-14	BH-14 4.1'	Soluble	Solid	300.0	20810
880-11990-15	BH-15 4.1'	Soluble	Solid	300.0	20810
880-11990-16	BH-16 4.1'	Soluble	Solid	300.0	20810

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

HPLC/IC (Continued)

Analysis Batch: 21040 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-17	BH-17 4.1'	Soluble	Solid	300.0	20810
880-11990-18	BH-18 4.1'	Soluble	Solid	300.0	20810
MB 880-20810/1-A	Method Blank	Soluble	Solid	300.0	20810
LCS 880-20810/2-A	Lab Control Sample	Soluble	Solid	300.0	20810
LCSD 880-20810/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20810
880-11990-9 MS	BH-9 4.1'	Soluble	Solid	300.0	20810
880-11990-9 MSD	BH-9 4.1'	Soluble	Solid	300.0	20810

Analysis Batch: 21041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11990-19	BH-19 4.1'	Soluble	Solid	300.0	20811
880-11990-20	BH-20 4.1'	Soluble	Solid	300.0	20811
880-11990-21	BH-21 4.1'	Soluble	Solid	300.0	20811
880-11990-22	BH-22 4.1'	Soluble	Solid	300.0	20811
880-11990-23	BH-23 4.1'	Soluble	Solid	300.0	20811
880-11990-24	BH-24 4.1'	Soluble	Solid	300.0	20811
880-11990-25	BH-25 4.1'	Soluble	Solid	300.0	20811
880-11990-26	BH-26 4.1'	Soluble	Solid	300.0	20811
880-11990-27	BH-27 4.1'	Soluble	Solid	300.0	20811
880-11990-28	BH-28 4.1'	Soluble	Solid	300.0	20811
880-11990-29	SW-1 0-4.1'	Soluble	Solid	300.0	20811
880-11990-30	SW-2 0-4.1'	Soluble	Solid	300.0	20811
880-11990-31	SW-3 0-4.1'	Soluble	Solid	300.0	20811
880-11990-32	SW-4 0-4.1'	Soluble	Solid	300.0	20811
880-11990-33	SW-5 0-4.1'	Soluble	Solid	300.0	20811
880-11990-34	SW-6 0-4.1'	Soluble	Solid	300.0	20811
880-11990-35	SW-7 0-4.1'	Soluble	Solid	300.0	20811
880-11990-36	SW-8 0-4.1'	Soluble	Solid	300.0	20811
880-11990-37	SW-9 0-4.1'	Soluble	Solid	300.0	20811
880-11990-38	SW-10 0-4.1'	Soluble	Solid	300.0	20811
MB 880-20811/1-A	Method Blank	Soluble	Solid	300.0	20811
LCS 880-20811/2-A	Lab Control Sample	Soluble	Solid	300.0	20811
LCSD 880-20811/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20811
880-11990-19 MS	BH-19 4.1'	Soluble	Solid	300.0	20811
880-11990-19 MSD	BH-19 4.1'	Soluble	Solid	300.0	20811
880-11990-29 MS	SW-1 0-4.1'	Soluble	Solid	300.0	20811
880-11990-29 MSD	SW-1 0-4.1'	Soluble	Solid	300.0	20811

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-1 4.1'

Lab Sample ID: 880-11990-1
Matrix: Solid
Date Collected: 03/02/22 08:02
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/07/22 23:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/09/22 22:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		50			21040	03/08/22 13:28	CH	XEN MID

Client Sample ID: BH-2 4.1'

Lab Sample ID: 880-11990-2
Matrix: Solid
Date Collected: 03/02/22 08:04
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/07/22 23:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/09/22 23:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		20			21040	03/08/22 13:34	CH	XEN MID

Client Sample ID: BH-3 4.1'

Lab Sample ID: 880-11990-3
Matrix: Solid
Date Collected: 03/02/22 08:06
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 00:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/09/22 23:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		50			21040	03/08/22 13:39	CH	XEN MID

Client Sample ID: BH-4 4.1'

Lab Sample ID: 880-11990-4
Matrix: Solid
Date Collected: 03/02/22 08:08
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 00:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-4 4.1'

Lab Sample ID: 880-11990-4
Matrix: Solid
Date Collected: 03/02/22 08:08
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/09/22 23:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		10			21040	03/08/22 13:57	CH	XEN MID

Client Sample ID: BH-5 4.1'

Lab Sample ID: 880-11990-5
Matrix: Solid
Date Collected: 03/02/22 08:10
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 00:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 07:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		5			21040	03/08/22 14:03	CH	XEN MID

Client Sample ID: BH-6 4.1'

Lab Sample ID: 880-11990-6
Matrix: Solid
Date Collected: 03/02/22 08:12
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 01:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 07:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		1			21040	03/08/22 14:31	CH	XEN MID

Client Sample ID: BH-7 4.1'

Lab Sample ID: 880-11990-7
Matrix: Solid
Date Collected: 03/02/22 08:14
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 01:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 07:40	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-7 4.1'

Lab Sample ID: 880-11990-7
Matrix: Solid
Date Collected: 03/02/22 08:14
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		20			21040	03/08/22 14:37	CH	XEN MID

Client Sample ID: BH-8 4.1'

Lab Sample ID: 880-11990-8
Matrix: Solid
Date Collected: 03/02/22 08:16
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 01:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 08:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		10			21040	03/08/22 14:43	CH	XEN MID

Client Sample ID: BH-9 4.1'

Lab Sample ID: 880-11990-9
Matrix: Solid
Date Collected: 03/02/22 08:18
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 02:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 08:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		10			21040	03/08/22 14:49	CH	XEN MID

Client Sample ID: BH-10 4.1'

Lab Sample ID: 880-11990-10
Matrix: Solid
Date Collected: 03/02/22 08:20
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 02:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 08:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		10			21040	03/08/22 15:07	CH	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-11 4.1'

Lab Sample ID: 880-11990-11
Matrix: Solid
Date Collected: 03/02/22 08:22
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 03:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 09:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		20			21040	03/08/22 15:13	CH	XEN MID

Client Sample ID: BH-12 4.1'

Lab Sample ID: 880-11990-12
Matrix: Solid
Date Collected: 03/02/22 08:24
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 04:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 09:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		20			21040	03/08/22 15:30	CH	XEN MID

Client Sample ID: BH-13 4.1'

Lab Sample ID: 880-11990-13
Matrix: Solid
Date Collected: 03/02/22 08:26
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 04:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 10:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		10			21040	03/08/22 15:36	CH	XEN MID

Client Sample ID: BH-14 4.1'

Lab Sample ID: 880-11990-14
Matrix: Solid
Date Collected: 03/02/22 08:28
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 04:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-14 4.1'

Date Collected: 03/02/22 08:28
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 10:28	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		10			21040	03/08/22 15:42	CH	XEN MID

Client Sample ID: BH-15 4.1'

Date Collected: 03/02/22 08:30
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 05:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 11:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		10			21040	03/08/22 15:48	CH	XEN MID

Client Sample ID: BH-16 4.1'

Date Collected: 03/02/22 08:32
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 05:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 11:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		10			21040	03/08/22 15:54	CH	XEN MID

Client Sample ID: BH-17 4.1'

Date Collected: 03/02/22 08:34
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 05:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 11:51	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-17 4.1'

Date Collected: 03/02/22 08:34
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		10			21040	03/08/22 16:00	CH	XEN MID

Client Sample ID: BH-18 4.1'

Date Collected: 03/02/22 08:36
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 06:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 12:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	20810	03/03/22 12:20	CH	XEN MID
Soluble	Analysis	300.0		10			21040	03/08/22 16:06	CH	XEN MID

Client Sample ID: BH-19 4.1'

Date Collected: 03/02/22 08:38
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 06:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 12:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		20			21041	03/08/22 09:03	CH	XEN MID

Client Sample ID: BH-20 4.1'

Date Collected: 03/02/22 08:40
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	20905	03/07/22 12:42	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21007	03/08/22 06:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20831	03/03/22 15:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21198	03/10/22 12:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		10			21041	03/08/22 09:29	CH	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-21 4.1'

Date Collected: 03/02/22 08:42
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	21114	03/08/22 08:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21110	03/08/22 17:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 12:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			21041	03/08/22 09:38	CH	XEN MID

Client Sample ID: BH-22 4.1'

Date Collected: 03/02/22 08:44
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	21114	03/08/22 08:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21110	03/08/22 17:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 13:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		10			21041	03/08/22 09:47	CH	XEN MID

Client Sample ID: BH-23 4.1'

Date Collected: 03/02/22 08:46
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	21114	03/08/22 08:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21110	03/08/22 20:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 14:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			21041	03/08/22 09:56	CH	XEN MID

Client Sample ID: BH-24 4.1'

Date Collected: 03/02/22 08:48
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	21114	03/08/22 08:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21110	03/08/22 20:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-24 4.1'

Lab Sample ID: 880-11990-24
Matrix: Solid
Date Collected: 03/02/22 08:48
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 14:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		10			21041	03/08/22 10:22	CH	XEN MID

Client Sample ID: BH-25 4.1'

Lab Sample ID: 880-11990-25
Matrix: Solid
Date Collected: 03/02/22 08:50
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	21114	03/08/22 08:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21110	03/08/22 21:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 14:51	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			21041	03/08/22 10:31	CH	XEN MID

Client Sample ID: BH-26 4.1'

Lab Sample ID: 880-11990-26
Matrix: Solid
Date Collected: 03/02/22 08:52
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	21114	03/08/22 08:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21110	03/08/22 21:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 15:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			21041	03/08/22 10:40	CH	XEN MID

Client Sample ID: BH-27 4.1'

Lab Sample ID: 880-11990-27
Matrix: Solid
Date Collected: 03/02/22 08:54
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	21114	03/08/22 08:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21110	03/08/22 21:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 15:32	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: BH-27 4.1'

Date Collected: 03/02/22 08:54
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			21041	03/08/22 10:49	CH	XEN MID

Client Sample ID: BH-28 4.1'

Date Collected: 03/02/22 08:56
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20786	03/08/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21109	03/08/22 16:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 15:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			21041	03/08/22 10:58	CH	XEN MID

Client Sample ID: SW-1 0-4.1'

Date Collected: 03/02/22 08:58
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20786	03/08/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21109	03/08/22 16:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 16:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		10			21041	03/08/22 11:07	CH	XEN MID

Client Sample ID: SW-2 0-4.1'

Date Collected: 03/02/22 09:00
Date Received: 03/03/22 09:23

Lab Sample ID: 880-11990-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	20786	03/08/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21109	03/08/22 17:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 16:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			21041	03/08/22 11:33	CH	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: SW-3 0-4.1'

Lab Sample ID: 880-11990-31
Matrix: Solid
Date Collected: 03/02/22 09:02
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	21013	03/08/22 09:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21110	03/09/22 10:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 17:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			21041	03/08/22 11:42	CH	XEN MID

Client Sample ID: SW-4 0-4.1'

Lab Sample ID: 880-11990-32
Matrix: Solid
Date Collected: 03/02/22 09:04
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	21013	03/08/22 09:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21110	03/09/22 10:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 17:40	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			21041	03/08/22 12:09	CH	XEN MID

Client Sample ID: SW-5 0-4.1'

Lab Sample ID: 880-11990-33
Matrix: Solid
Date Collected: 03/02/22 09:06
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	21013	03/08/22 09:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21110	03/09/22 11:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 18:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		50			21041	03/08/22 12:17	CH	XEN MID

Client Sample ID: SW-6 0-4.1'

Lab Sample ID: 880-11990-34
Matrix: Solid
Date Collected: 03/02/22 09:08
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	20786	03/08/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21109	03/08/22 18:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: SW-6 0-4.1'

Lab Sample ID: 880-11990-34
Date Collected: 03/02/22 09:08
Matrix: Solid
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 18:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		10			21041	03/08/22 12:26	CH	XEN MID

Client Sample ID: SW-7 0-4.1'

Lab Sample ID: 880-11990-35
Date Collected: 03/02/22 09:10
Matrix: Solid
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20786	03/08/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21109	03/08/22 18:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 18:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			21041	03/08/22 12:35	CH	XEN MID

Client Sample ID: SW-8 0-4.1'

Lab Sample ID: 880-11990-36
Date Collected: 03/02/22 09:12
Matrix: Solid
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	20786	03/08/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21109	03/08/22 19:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 19:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		10			21041	03/08/22 12:44	CH	XEN MID

Client Sample ID: SW-9 0-4.1'

Lab Sample ID: 880-11990-37
Date Collected: 03/02/22 09:14
Matrix: Solid
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20786	03/08/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21109	03/08/22 19:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 19:27	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Client Sample ID: SW-9 0-4.1'

Lab Sample ID: 880-11990-37
Matrix: Solid
Date Collected: 03/02/22 09:14
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			21041	03/08/22 12:53	CH	XEN MID

Client Sample ID: SW-10 0-4.1'

Lab Sample ID: 880-11990-38
Matrix: Solid
Date Collected: 03/02/22 09:16
Date Received: 03/03/22 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	21114	03/08/22 08:59	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21110	03/08/22 22:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21153	03/08/22 13:28	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21099	03/08/22 06:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20867	03/04/22 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21014	03/07/22 19:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20811	03/03/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			21041	03/08/22 13:02	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB Produced Water

Job ID: 880-11990-1
SDG: 21-0100-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-11990-1	BH-1 4.1'	Solid	03/02/22 08:02	03/03/22 09:23
880-11990-2	BH-2 4.1'	Solid	03/02/22 08:04	03/03/22 09:23
880-11990-3	BH-3 4.1'	Solid	03/02/22 08:06	03/03/22 09:23
880-11990-4	BH-4 4.1'	Solid	03/02/22 08:08	03/03/22 09:23
880-11990-5	BH-5 4.1'	Solid	03/02/22 08:10	03/03/22 09:23
880-11990-6	BH-6 4.1'	Solid	03/02/22 08:12	03/03/22 09:23
880-11990-7	BH-7 4.1'	Solid	03/02/22 08:14	03/03/22 09:23
880-11990-8	BH-8 4.1'	Solid	03/02/22 08:16	03/03/22 09:23
880-11990-9	BH-9 4.1'	Solid	03/02/22 08:18	03/03/22 09:23
880-11990-10	BH-10 4.1'	Solid	03/02/22 08:20	03/03/22 09:23
880-11990-11	BH-11 4.1'	Solid	03/02/22 08:22	03/03/22 09:23
880-11990-12	BH-12 4.1'	Solid	03/02/22 08:24	03/03/22 09:23
880-11990-13	BH-13 4.1'	Solid	03/02/22 08:26	03/03/22 09:23
880-11990-14	BH-14 4.1'	Solid	03/02/22 08:28	03/03/22 09:23
880-11990-15	BH-15 4.1'	Solid	03/02/22 08:30	03/03/22 09:23
880-11990-16	BH-16 4.1'	Solid	03/02/22 08:32	03/03/22 09:23
880-11990-17	BH-17 4.1'	Solid	03/02/22 08:34	03/03/22 09:23
880-11990-18	BH-18 4.1'	Solid	03/02/22 08:36	03/03/22 09:23
880-11990-19	BH-19 4.1'	Solid	03/02/22 08:38	03/03/22 09:23
880-11990-20	BH-20 4.1'	Solid	03/02/22 08:40	03/03/22 09:23
880-11990-21	BH-21 4.1'	Solid	03/02/22 08:42	03/03/22 09:23
880-11990-22	BH-22 4.1'	Solid	03/02/22 08:44	03/03/22 09:23
880-11990-23	BH-23 4.1'	Solid	03/02/22 08:46	03/03/22 09:23
880-11990-24	BH-24 4.1'	Solid	03/02/22 08:48	03/03/22 09:23
880-11990-25	BH-25 4.1'	Solid	03/02/22 08:50	03/03/22 09:23
880-11990-26	BH-26 4.1'	Solid	03/02/22 08:52	03/03/22 09:23
880-11990-27	BH-27 4.1'	Solid	03/02/22 08:54	03/03/22 09:23
880-11990-28	BH-28 4.1'	Solid	03/02/22 08:56	03/03/22 09:23
880-11990-29	SW-1 0-4.1'	Solid	03/02/22 08:58	03/03/22 09:23
880-11990-30	SW-2 0-4.1'	Solid	03/02/22 09:00	03/03/22 09:23
880-11990-31	SW-3 0-4.1'	Solid	03/02/22 09:02	03/03/22 09:23
880-11990-32	SW-4 0-4.1'	Solid	03/02/22 09:04	03/03/22 09:23
880-11990-33	SW-5 0-4.1'	Solid	03/02/22 09:06	03/03/22 09:23
880-11990-34	SW-6 0-4.1'	Solid	03/02/22 09:08	03/03/22 09:23
880-11990-35	SW-7 0-4.1'	Solid	03/02/22 09:10	03/03/22 09:23
880-11990-36	SW-8 0-4.1'	Solid	03/02/22 09:12	03/03/22 09:23
880-11990-37	SW-9 0-4.1'	Solid	03/02/22 09:14	03/03/22 09:23
880-11990-38	SW-10 0-4.1'	Solid	03/02/22 09:16	03/03/22 09:23

No. 2408

11990 CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld Ste 202
Midland TX 79701
432-687 0901

DATE 3-3-2022 PAGE 1 OF 3

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Sakata Draw 24 CTB Produced Water

LAI PROJECT # 21-0100-01 COLLECTOR JR

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 ☐	8082 PCBS ☐	8151 HERBICIDES ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐ HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐ DW 200.8 ☐	TCLP ☐	RCI ☐ TOX ☐	FLASHPOINT ☐	TDS ☐ TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☑	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
BH-1 4.1'		3/2/22	0802	S	1				X		X			X	X	X																				X				
BH-2 4.1'			0804																																				
BH-3 4.1'			0806																																				
BH-4 4.1'			0808																																				
BH-5 4.1'			0810																																				
BH-6 4.1'			0812																																				
BH-7 4.1'			0814																																				
BH-8 4.1'			0816																																				
BH-9 4.1'			0818																																				
BH-10 4.1'			0820																																				
BH-11 4.1'			0822																																				
BH-12 4.1'			0824																																				
BH-13 4.1'			0826																																				
BH-14 4.1'			0828																																				
BH-15 4.1'			0830																																				

880-11990 Chain of Custody

TOTAL 15

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	3/3/22 9:23	[signature]
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 5 6/5 5 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

202

No. 2409

11990 CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld Ste 202
Midland TX 79701
432-687 0901

Data Reported to

DATE 3-3-22 PAGE 2 OF 3

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Shack Draw 24 CTB produced water

LAI PROJECT # 21-0100-01 COLLECTOR JR

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 ☐	TPH 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 ☐	TCLP METALS (RCRA) ☐	TCLP VOC ☐	TCLP PEST ☐ HERB ☐	TOTAL METALS (RCRA) ☐	Semi-VOC ☐	LEAD - TOTAL ☐	OTHER LIST ☐	RCI ☐	TOX ☐	TCLP ☐	TDS ☐	TSS ☐	FLASHPOINT ☐	pH ☐	% MOISTURE ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
BH-16 4.1'		3/2/22	0832	S	1				X		X			X	X	X																										
BH-17 4.1'		"	0834	"	"				"		"			"	"	"																										
BH-18 4.1'		"	0836	"	"				"		"			"	"	"																										
BH-19 4.1'		"	0838	"	"				"		"			"	"	"																										
BH-20 4.1'		"	0840	"	"				"		"			"	"	"																										
BH-21 4.1'		"	0842	"	"				"		"			"	"	"																										
BH-22 4.1'		"	0844	"	"				"		"			"	"	"																										
BH-23 4.1'		"	0846	"	"				"		"			"	"	"																										
BH-24 4.1'		"	0848	"	"				"		"			"	"	"																										
BH-25 4.1'		"	0850	"	"				"		"			"	"	"																										
BH-26 4.1'		"	0852	"	"				"		"			"	"	"																										
BH-27 4.1'		"	0854	"	"				"		"			"	"	"																										
BH-28 4.1'		"	0856	"	"				"		"			"	"	"																										
SW-1 0-4.1'		"	0858	"	"				"		"			"	"	"																										
SW-2 0-4.1'		"	0900	"	"				"		"			"	"	"																										

TOTAL 15

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	3/3/22 9:23	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 5.6/5.5 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

No. 2410

11990 CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

507 N Marienfeld Ste 202
Midland TX 79701
432-687-0901

Data Reported to

DATE 3/3/2022 PAGE 3 OF 3

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Sabbath Draw 24 CTB Produced Water

LAI PROJECT # 21-0100-01 COLLECTOR JR

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE 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	TPH 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	TCLP VOC	TCLP - METALS (RCRA)	TCLP PEST	TCLP 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	CHLORIDES	ANIONS	ALKALINITY	FIELD NOTES
SW-3 0-4.1'		3/2/22	0902	S	1				X		X				X	X	X																										X						
SW-4 0-4.1'			0904																																														
SW-5 0-4.1'			0906																																														
SW-6 0-4.1'			0908																																														
SW-7 0-4.1'			0910																																														
SW-8 0-4.1'			0912																																														
SW-9 0-4.1'			0914																																														
SW-10 0-4.1			0916																																														

TOTAL 8

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	3/3/22 9:23	[signature]
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 5 6 5 5 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-11990-1
SDG Number: 21-0100-01

Login Number: 11990
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Salado Draw 24 CTB PWR

Project Number: 21-0100-01

Location: New Mexico

Lab Order Number: 2C18013

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 03/21/22

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
P.O. Box 50685	Project Number: 21-0100-01
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-5 0-4.1	2C18013-01	Soil	03/18/22 08:10	03-18-2022 15:24
SW-6 0-4.1	2C18013-02	Soil	03/18/22 08:35	03-18-2022 15:24
SW-1 0-4.1	2C18013-03	Soil	03/18/22 09:10	03-18-2022 15:24
SW-3 0-4.1	2C18013-04	Soil	03/18/22 09:15	03-18-2022 15:24
BH-29 4.1	2C18013-05	Soil	03/18/22 10:10	03-18-2022 15:24
BH-30 4.1	2C18013-06	Soil	03/18/22 10:12	03-18-2022 15:24
BF-1	2C18013-07	Soil	03/18/22 11:21	03-18-2022 15:24
BF-2	2C18013-08	Soil	03/18/22 11:22	03-18-2022 15:24
BF-3	2C18013-09	Soil	03/18/22 11:23	03-18-2022 15:24

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
P.O. Box 50685	Project Number: 21-0100-01
Midland TX, 79710	Project Manager: Mark Larson

SW-5 0-4.1

2C18013-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 22:47	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 22:47	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 22:47	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 22:47	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 22:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/18/22 22:47*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*108 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/18/22 22:47*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**185**	1.04	mg/kg dry	1	P2C1814	03/18/22 16:30	03/18/22 20:11	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2C2104	03/21/22 10:45	03/21/22 10:51	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 09:55	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 09:55	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 09:55	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.0 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 09:55*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.5 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 09:55*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/18/22 15:54	03/19/22 09:55	calc	

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
P.O. Box 50685	Project Number: 21-0100-01
Midland TX, 79710	Project Manager: Mark Larson

SW-6 0-4.1

2C18013-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:08	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:08	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:08	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:08	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:08	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*103 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/18/22 23:08*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.8 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/18/22 23:08*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**187**	1.04	mg/kg dry	1	P2C1814	03/18/22 16:30	03/18/22 21:08	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2C2104	03/21/22 10:45	03/21/22 10:51	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 10:16	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 10:16	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 10:16	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.3 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 10:16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.1 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 10:16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/18/22 15:54	03/19/22 10:16	calc	

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
P.O. Box 50685	Project Number: 21-0100-01
Midland TX, 79710	Project Manager: Mark Larson

SW-1 0-4.1

2C18013-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:29	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:29	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:29	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:29	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/18/22 23:29*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*106 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/18/22 23:29*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**308**	1.04	mg/kg dry	1	P2C1814	03/18/22 16:30	03/18/22 21:27	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2C2104	03/21/22 10:45	03/21/22 10:51	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 10:37	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 10:37	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 10:37	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.5 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 10:37*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.7 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 10:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/18/22 15:54	03/19/22 10:37	calc	

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
P.O. Box 50685	Project Number: 21-0100-01
Midland TX, 79710	Project Manager: Mark Larson

SW-3 0-4.1

2C18013-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:49	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:49	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:49	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:49	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2C1811	03/18/22 15:14	03/18/22 23:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.5 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/18/22 23:49*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*103 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/18/22 23:49*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**156**	1.03	mg/kg dry	1	P2C1814	03/18/22 16:30	03/18/22 21:46	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2C2104	03/21/22 10:45	03/21/22 10:51	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 10:58	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 10:58	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 10:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.5 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 10:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.3 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 10:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/18/22 15:54	03/19/22 10:58	calc	

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
P.O. Box 50685	Project Number: 21-0100-01
Midland TX, 79710	Project Manager: Mark Larson

BH-29 4.1

2C18013-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:10	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:10	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:10	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:10	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/19/22 00:10*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/19/22 00:10*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**492**	1.04	mg/kg dry	1	P2C1814	03/18/22 16:30	03/18/22 22:05	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2C2104	03/21/22 10:45	03/21/22 10:51	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 11:20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 11:20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 11:20	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.2 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 11:20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.5 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 11:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/18/22 15:54	03/19/22 11:20	calc	

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
P.O. Box 50685	Project Number: 21-0100-01
Midland TX, 79710	Project Manager: Mark Larson

BH-30 4.1

2C18013-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:31	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:31	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:31	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:31	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/19/22 00:31*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*94.4 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/19/22 00:31*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**59.7**	1.01	mg/kg dry	1	P2C1814	03/18/22 16:30	03/18/22 22:24	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2C2104	03/21/22 10:45	03/21/22 10:51	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 11:41	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 11:41	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 11:41	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.9 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 11:41*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.8 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 11:41*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	03/18/22 15:54	03/19/22 11:41	calc	

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
P.O. Box 50685	Project Number: 21-0100-01
Midland TX, 79710	Project Manager: Mark Larson

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2C18013-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:52	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:52	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:52	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:52	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 00:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/19/22 00:52*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*96.2 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/19/22 00:52*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3.51**	1.01	mg/kg dry	1	P2C1814	03/18/22 16:30	03/18/22 22:43	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2C2104	03/21/22 10:45	03/21/22 10:51	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 12:02	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 12:02	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 12:02	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.4 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 12:02*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.9 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 12:02*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	03/18/22 15:54	03/19/22 12:02	calc	

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
P.O. Box 50685	Project Number: 21-0100-01
Midland TX, 79710	Project Manager: Mark Larson

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2C18013-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 01:13	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 01:13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 01:13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 01:13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 01:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/19/22 01:13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*94.3 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/19/22 01:13*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4.05**	1.00	mg/kg dry	1	P2C1814	03/18/22 16:30	03/18/22 23:02	EPA 300.0	
% Moisture	ND	0.1	%	1	P2C2104	03/21/22 10:45	03/21/22 10:51	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 12:24	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 12:24	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 12:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.3 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 12:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.5 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 12:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	03/18/22 15:54	03/19/22 12:24	calc	

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
P.O. Box 50685	Project Number: 21-0100-01
Midland TX, 79710	Project Manager: Mark Larson

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2C18013-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 01:33	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 01:33	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 01:33	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 01:33	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2C1811	03/18/22 15:14	03/19/22 01:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*96.6 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/19/22 01:33*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P2C1811*	*03/18/22 15:14*	*03/19/22 01:33*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3.58**	1.01	mg/kg dry	1	P2C1814	03/18/22 16:30	03/18/22 23:21	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2C2104	03/21/22 10:45	03/21/22 10:51	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 12:45	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 12:45	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2C1813	03/18/22 15:54	03/19/22 12:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.6 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 12:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.6 %*	*70-130*		*P2C1813*	*03/18/22 15:54*	*03/19/22 12:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	03/18/22 15:54	03/19/22 12:45	calc	

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
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Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2C1811 - General Preparation (GC)										
Blank (P2C1811-BLK1)				Prepared & Analyzed: 03/18/22						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.120*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.120*		*97.3*	*80-120*			
LCS (P2C1811-BS1)				Prepared & Analyzed: 03/18/22						
Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		117	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 1,4-Difluorobenzene	*0.126*		"	*0.120*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.120*		*104*	*80-120*			
LCS Dup (P2C1811-BSD1)				Prepared & Analyzed: 03/18/22						
Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120	6.49	20	
Toluene	0.0957	0.00100	"	0.100		95.7	80-120	8.94	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120	3.45	20	
Xylene (p/m)	0.216	0.00200	"	0.200		108	80-120	8.53	20	
Xylene (o)	0.0988	0.00100	"	0.100		98.8	80-120	9.36	20	
Surrogate: 1,4-Difluorobenzene	*0.124*		"	*0.120*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			
Calibration Check (P2C1811-CCV1)				Prepared & Analyzed: 03/18/22						
Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0955	0.00100	"	0.100		95.5	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120			
Xylene (o)	0.0975	0.00100	"	0.100		97.5	80-120			
Surrogate: 1,4-Difluorobenzene	*0.125*		"	*0.120*		*105*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.121*		"	*0.120*		*100*	*75-125*			

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
P.O. Box 50685	Project Number: 21-0100-01
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2C1811 - General Preparation (GC)										
Calibration Check (P2C1811-CCV2)				Prepared & Analyzed: 03/18/22						
Benzene	0.113	0.00100	mg/kg wet	0.100		113	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.233	0.00200	"	0.200		116	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene	*0.111*		"	*0.120*		*92.7*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.3*	*75-125*			
Calibration Check (P2C1811-CCV3)				Prepared: 03/18/22 Analyzed: 03/19/22						
Benzene	0.119	0.00100	mg/kg wet	0.100		119	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.0*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.123*		"	*0.120*		*102*	*75-125*			
Matrix Spike (P2C1811-MS1)		**Source: 2C10007-01**		Prepared: 03/18/22 Analyzed: 03/19/22						
Benzene	0.100	0.00115	mg/kg dry	0.115	0.00149	85.7	80-120			
Toluene	0.0724	0.00115	"	0.115	0.0115	53.0	80-120			QM-05
Ethylbenzene	0.0611	0.00115	"	0.115	0.0102	44.3	80-120			QM-05
Xylene (p/m)	0.107	0.00230	"	0.230	0.0790	12.3	80-120			QM-05
Xylene (o)	0.0474	0.00115	"	0.115	0.0241	20.3	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.150*		"	*0.138*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.140*		"	*0.138*		*102*	*80-120*			
Matrix Spike Dup (P2C1811-MSD1)		**Source: 2C10007-01**		Prepared: 03/18/22 Analyzed: 03/19/22						
Benzene	0.0992	0.00115	mg/kg dry	0.115	0.00149	85.0	80-120	0.843	20	
Toluene	0.0717	0.00115	"	0.115	0.0115	52.4	80-120	1.21	20	QM-05
Ethylbenzene	0.0611	0.00115	"	0.115	0.0102	44.3	80-120	0.0451	20	QM-05
Xylene (p/m)	0.107	0.00230	"	0.230	0.0790	12.0	80-120	2.46	20	QM-05
Xylene (o)	0.0484	0.00115	"	0.115	0.0241	21.1	80-120	3.87	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.153*		"	*0.138*		*111*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.142*		"	*0.138*		*103*	*80-120*			

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
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Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2C1814 - * DEFAULT PREP *** **										
Blank (P2C1814-BLK1)				Prepared & Analyzed: 03/18/22						
Chloride	ND	1.00	mg/kg wet							
LCS (P2C1814-BS1)				Prepared & Analyzed: 03/18/22						
Chloride	42.9		mg/kg	40.0		107	90-110			
LCS Dup (P2C1814-BSD1)				Prepared & Analyzed: 03/18/22						
Chloride	43.2		mg/kg	40.0		108	90-110	0.690	10	
Calibration Blank (P2C1814-CCB1)				Prepared & Analyzed: 03/18/22						
Chloride	0.0640		mg/kg wet							
Calibration Blank (P2C1814-CCB2)				Prepared: 03/18/22 Analyzed: 03/19/22						
Chloride	0.0560		mg/kg wet							
Calibration Check (P2C1814-CCV1)				Prepared & Analyzed: 03/18/22						
Chloride	42.6		mg/kg	40.0		106	90-110			
Calibration Check (P2C1814-CCV2)				Prepared & Analyzed: 03/18/22						
Chloride	42.9		mg/kg	40.0		107	90-110			
Calibration Check (P2C1814-CCV3)				Prepared: 03/18/22 Analyzed: 03/19/22						
Chloride	43.1		mg/kg	40.0		108	90-110			
Matrix Spike (P2C1814-MS1)		**Source: 2C18013-01**		Prepared & Analyzed: 03/18/22						
Chloride	472	1.04	mg/kg dry	260	185	110	80-120			
Matrix Spike (P2C1814-MS2)		**Source: 2C16005-12**		Prepared: 03/18/22 Analyzed: 03/19/22						
Chloride	594	1.12	mg/kg dry	281	335	92.2	80-120			

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
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Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2C1814 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2C1814-MSD1)	**Source: 2C18013-01**			Prepared & Analyzed: 03/18/22						
Chloride	452	1.04	mg/kg dry	260	185	103	80-120	4.24	20	
Matrix Spike Dup (P2C1814-MSD2)	**Source: 2C16005-12**			Prepared: 03/18/22 Analyzed: 03/19/22						
Chloride	629	1.12	mg/kg dry	281	335	104	80-120	5.59	20	
Batch P2C2104 - * DEFAULT PREP *** **										
Blank (P2C2104-BLK1)				Prepared & Analyzed: 03/21/22						
% Moisture	ND	0.1	%							
Blank (P2C2104-BLK2)				Prepared & Analyzed: 03/21/22						
% Moisture	ND	0.1	%							
Blank (P2C2104-BLK3)				Prepared & Analyzed: 03/21/22						
% Moisture	ND	0.1	%							
Duplicate (P2C2104-DUP1)	**Source: 2C17014-05**			Prepared & Analyzed: 03/21/22						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P2C2104-DUP2)	**Source: 2C18001-10**			Prepared & Analyzed: 03/21/22						
% Moisture	7.0	0.1	%		6.0			15.4	20	
Duplicate (P2C2104-DUP3)	**Source: 2C18001-25**			Prepared & Analyzed: 03/21/22						
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P2C2104-DUP4)	**Source: 2C18007-02**			Prepared & Analyzed: 03/21/22						
% Moisture	7.0	0.1	%		7.0			0.00	20	

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2C2104 - * DEFAULT PREP *** **										
Duplicate (P2C2104-DUP5)		**Source: 2C18010-04**		Prepared & Analyzed: 03/21/22						
% Moisture	15.0	0.1	%		15.0			0.00	20	
Duplicate (P2C2104-DUP6)		**Source: 2C18013-05**		Prepared & Analyzed: 03/21/22						
% Moisture	3.0	0.1	%		4.0			28.6	20	QM-05

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2C1813 - * DEFAULT PREP *** **										
Blank (P2C1813-BLK1)				Prepared: 03/18/22 Analyzed: 03/19/22						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*90.1*		"	*100*		*90.1*	*70-130*			
Surrogate: o-Terphenyl	*47.2*		"	*50.0*		*94.4*	*70-130*			
LCS (P2C1813-BS1)				Prepared: 03/18/22 Analyzed: 03/19/22						
C6-C12	1150	25.0	mg/kg wet	1000		115	75-125			
>C12-C28	1090	25.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	*103*		"	*100*		*103*	*70-130*			
Surrogate: o-Terphenyl	*53.4*		"	*50.0*		*107*	*70-130*			
LCS Dup (P2C1813-BSD1)				Prepared: 03/18/22 Analyzed: 03/19/22						
C6-C12	1160	25.0	mg/kg wet	1000		116	75-125	1.51	20	
>C12-C28	1100	25.0	"	1000		110	75-125	1.04	20	
Surrogate: 1-Chlorooctane	*103*		"	*100*		*103*	*70-130*			
Surrogate: o-Terphenyl	*55.5*		"	*50.0*		*111*	*70-130*			
Calibration Check (P2C1813-CCV1)				Prepared: 03/18/22 Analyzed: 03/19/22						
C6-C12	561	25.0	mg/kg wet	500		112	85-115			
>C12-C28	524	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	*112*		"	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*52.8*		"	*50.0*		*106*	*70-130*			
Duplicate (P2C1813-DUP1)	**Source: 2C18001-26**			Prepared: 03/18/22 Analyzed: 03/21/22						
C6-C12	697	27.5	mg/kg dry		679			2.72	20	
>C12-C28	5010	27.5	"		4860			2.87	20	
Surrogate: 1-Chlorooctane	*127*		"	*110*		*115*	*70-130*			
Surrogate: o-Terphenyl	*62.0*		"	*54.9*		*113*	*70-130*			

Larson & Associates, Inc.	Project: Salado Draw 24 CTB PWR
P.O. Box 50685	Project Number: 21-0100-01
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
NPBEL C(	Chain of Custody was not generated at PBELAB
BULK	Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 3/21/2022

Brent Barron, Laboratory Director/Technical Director

No. 248

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 3/18/2022 PAGE 1 OF 1

PO#: LAB WORK ORDER#: 2C18013

PROJECT LOCATION OR NAME: SALADO 24 CTB PWR

LAI PROJECT #: 21-0100-01 COLLECTOR: DSG

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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 ☐ | 8082 PCBS ☐ | 8151 HERBICIDES ☐ | TCLP - METALS (RCRA) ☐ | TCLP - PEST ☐ | TCLP VOC ☐ | TCLP HERB ☐ | TOTAL METALS (RCRA) ☐ | LEAD - TOTAL ☐ | Semi-VOC ☐ | D.W. 200.8 ☐ | OTHER LIST ☐ | RCI ☐ | TOX ☐ | TCLP ☐ | TDS ☐ | TSS ☐ | FLASHPOINT ☐ | pH ☐ | % MOISTURE ☐ | HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ | CYANIDE ☐ | CHLORIDES ☒ | PECHLORATE ☐ | ANIONS ☐ | ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐	8082 PCBS ☐	8151 HERBICIDES ☐	TCLP - METALS (RCRA) ☐	TCLP - PEST ☐	TCLP VOC ☐	TCLP HERB ☐	TOTAL METALS (RCRA) ☐	LEAD - TOTAL ☐	Semi-VOC ☐	D.W. 200.8 ☐	OTHER LIST ☐	RCI ☐	TOX ☐	TCLP ☐	TDS ☐	TSS ☐	FLASHPOINT ☐	pH ☐	% MOISTURE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	CYANIDE ☐	CHLORIDES ☒	PECHLORATE ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
SW-5 0-4.1	1	3/18/2022	0810	S	1				X		X			X	X	X																							X					
SW-6 0-4.1	2	3/18/22	0835	S	1				X		X			X	X	X																							X					
SW-1 0-4.1	3	3/18/22	0910	S	1				X		X			X	X	X																							X					
SW-3 0-4.1	4	3/18/22	0945	S	1				X		X			X	X	X																							X					
BH-29 4.1	5	3/18/22	1010	S	1				X		X			X	X	X																							X					
BH-30 4.1	6	3/18/22	1012	S	1				X		X			X	X	X																							X					
BF-1	7	3/18/22	1121	S	1				X		X			X	X	X																							X					
BF-2	8	3/18/22	1122	S	1				X		X			X	X	X																							X					
BF-3	9	3/18/22	1123	S	1				X		X			X	X	X																							X					

TOTAL 9

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	3/18/2022	Trena Blaine 15:24
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY:

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

LABORATORY USE ONLY:
RECEIVING TEMP: 18.8 19.8 THERM#: CF11 U
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # ☐ HAND DELIVERED

PBELAB

DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

Sample Receipt Checklist

Yes		Notes
✓	Chain of custody present?	
	Chain of custody signed/dated/time when relinquished and received?	
	Sample date/time present on COC for all samples?	
	Samplers name present on COC?	
	Chain of Custody agrees with sample labels?	
	Sample containers intact?	
X	Are any seals intact on sample bottles?	
✓	Samples in proper container/bottle?	
	Sufficient sample volume for indicated test?	
	All samples received within holding time?	
X	Samples received with appropriate temp?	19.8
✓	Analysis requested for all samples submitted?	
	Shipper container/cooler in good condition?	
	Custody seals intact on shipping container/cooler?	

Login Notes: 2C18013
20Z

PBELAB

DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

SAMPLE VARIANCE/NON-CONFORMANCE

Variance/Discrepancy:

Resolution:

Client Contacted

Name:

Date/Time:

NC Initiated by:_____ Approved by:_____

Appendix F

Waste Manifests

CHEVRON
MCBU

Carlsbad, NM

NO #CAR- 4112 **NON-HAZARDOUS WASTE MANIFEST** 1. PAGE 1 OF 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD	5301 LOMAS DR.	3/24/22
PHONE NO. 575-887-5676	CITY STATE ZIP CARLSBAD, NM 88220	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Sand, Dirty Soil	1		20 yds		
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: Eddy Draw Maelstrom API # 3002545127

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
Ben Peña PTOI 575-361-9608	[signature]	3-24-22

TRANSPORTERS

16. **TRANSPORTER (1)**	17. **TRANSPORTER (2)**
NAME	NAME
IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME	PRINTED/TYPED NAME
SIGNATURE [signature] DATE	SIGNATURE [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

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

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

CHEVRON
MCBU

Carlsbad, NM

NO #CAR- 4113 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE 1 OF | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD PHONE NO. 575-887-5676	5301 LOMAS DR. CITY STATE ZIP CARLSBAD, NM 88220	3/24/22 6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	8. CONTAINERS Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Sand Dirty Soil &	1		20yds		
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: Mabel Mesa API # 3002545127

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
Ben Perez FACT 575-361-9029		3-24-22

TRANSPORTERS

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

DISPOSAL FACILITY

	ADDRESS:	PHONE:

PERMIT NO.	20. COMMENTS

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

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

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

CHEVRON MCBU

Carlsbad, NM

NO #CAR- 4114 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE 1 OF 1 | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD PHONE NO. 575-887-5676	5301 LOMAS DR. CITY STATE ZIP CARLSBAD, NM 88220	3/24/22 6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Sand Dirty Soil	1		20yds		
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS:

Salado Diego Madstrom API # 30-025-45127

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
Ben Pena F2OI 575-361-9628	[signature]	3-24-22

TRANSPORTERS

16. **TRANSPORTER (1)**	17. **TRANSPORTER (2)**
NAME	NAME
IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:	EMERGENCY PHONE:

18. **TRANSPORTER** (1): Acknowledgment of receipt of material	19. **TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME	PRINTED/TYPED NAME
SIGNATURE [signature] DATE	SIGNATURE [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

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

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

CHEVRON
MCBU
Carlsbad, NM

NO #CAR- 4115 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD PHONE NO. 575-887-5676	5301 LOMAS DR. 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.					
b.					
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.

SD Mackstom API# 3002545127

PRINTED TYPED NAME Micah Fenero

SIGNATURE

DATE 3-25-22

TRANSPORTERS

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

DISPOSAL FACILITY

	ADDRESS:	PHONE:
PERMIT NO.	20. COMMENTS	

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

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

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

CHEVRON
MCBU
Carlsbad, NM

NO #CAR- 4116 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD PHONE NO. 575-887-5676	5301 LOMAS DR. CITY STATE ZIP CARLSBAD, NM 88220	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a.					
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: SD Mackrom API # - 3002545127

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 Micah Ferrero

SIGNATURE [signature] DATE 3-25-22

TRANSPORTERS

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

DISPOSAL FACILITY

	ADDRESS:	PHONE:
PERMIT NO.	20. COMMENTS	

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

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

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

CHEVRON
MCBU
Carlsbad, NM

NO #CAR- 4117 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD PHONE NO. 575-887-5676	5301 LOMAS DR. 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.					
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: SD Maelstrom API 3000545127

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 Miah Ferrell — SIGNATURE — DATE 3-25-22

TRANSPORTERS

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

DISPOSAL FACILITY

	ADDRESS:	PHONE:
PERMIT NO.	20. COMMENTS	

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

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

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

CHEVRON
MCBU
Carlsbad, NM

NO #CAR- 4118 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD PHONE NO. 575-887-5676	5301 LOMAS DR. 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.					
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: SD Mackstrom API # 30025457

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 Miah Ferro — SIGNATURE — DATE 3/25/22

TRANSPORTERS

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

DISPOSAL FACILITY

	ADDRESS:	PHONE:
PERMIT NO.	20. COMMENTS	

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

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

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

CHEVRON
MCBU
Carlsbad, NM

NO #CAR- 4119 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD PHONE NO. 575-887-5676	5301 LOMAS DR. 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.					
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: SD Maelstrom API 3002545127

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 Micah Ferro — SIGNATURE [signature] — DATE 3-25-22

TRANSPORTERS

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

DISPOSAL FACILITY

	ADDRESS:	PHONE:
PERMIT NO.	20. COMMENTS	

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

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

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

CHEVRON
MCBU

Carlsbad, NM

NO #CAR- 4120 **NON-HAZARDOUS WASTE MANIFEST** 1. PAGE __OF__ 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD	5301 LOMAS DR.	3/28/22
PHONE NO. 575-887-5676	CITY STATE ZIP CARLSBAD, NM 88220	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. oil, produced water + sand	1		100	Bbls	
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: Salado Draw Sat 14 -UGPK9109X

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
Josué Banda 575-988-4860	Josue Banda	3/28/22

TRANSPORTERS

16. **TRANSPORTER (1)**	17. **TRANSPORTER (2)**
NAME Royal T	NAME
IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: 713-941-2700	EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME Lazaro Terry	PRINTED/TYPED NAME
SIGNATURE [signature] DATE 03/28/22	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

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

GENERATOR: COPY 1 TRANSPORTER: COPY 2

LARson & Associates
Tatum Peters
432 · 210 - 3639

CHEVRON
MCBU

Carlsbad, NM

NO #CAR- 4121 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD	5301 LOMAS DR.	3/28/22
PHONE NO. 575-887-5676	CITY / STATE / ZIP: CARLSBAD, NM 88220	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Dirty Soil, Contaminated Dirt	1		20yd		
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: SD Maelstrom [illegible] - CC. 46CPK9203X

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
Josue Banda 575 988-4860 JRZN	[signature]	3/28/22

TRANSPORTERS

16. **TRANSPORTER (1)**	17. **TRANSPORTER (2)**
NAME	NAME
IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:	EMERGENCY PHONE:

18. **TRANSPORTER** (1): Acknowledgment of receipt of material	19. **TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME ____________	PRINTED/TYPED NAME ____________
SIGNATURE ____________ DATE ______	SIGNATURE ____________ DATE ______

DISPOSAL FACILITY

	ADDRESS:	PHONE:

PERMIT NO.	20. COMMENTS

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

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

[illegible] COPY 1 | TRANSPORTER: COPY 2 | DISPOSAL SITE: COPY 3

CHEVRON
MCBU
Carlsbad, NM

NO #CAR- 4122 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO. 3/28/22

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD PHONE NO. 575-887-5676	5301 LOMAS DR. 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.
a. Contaminated Soil		1	20yd		
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: SD Mainstream Island cc: nCPK9L03x

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
JBZN Jesse Banda 575-999-4586		3/28/22

TRANSPORTERS

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

DISPOSAL FACILITY

	ADDRESS:	PHONE:
PERMIT NO.	20. COMMENTS	

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

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

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

CHEVRON
MCBU

Carlsbad, NM

NO #CAR- 4123 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD	5301 LOMAS DR.	3/28/22
PHONE NO. 575-887-5676	CITY STATE ZIP CARLSBAD, NM 88220	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Contaminated Soil		1	20 yrd		
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: SD Maelstrom 15-1 sed cc. UCPK91032

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
Josue B[illegible] 575-988-4966 JBZN	[signature]	3/28/22

TRANSPORTERS

16. **TRANSPORTER (1)**	17. **TRANSPORTER (2)**
NAME	NAME
IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:	EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME ______	PRINTED/TYPED NAME ______
SIGNATURE ______ DATE ______	SIGNATURE ______ DATE ______

DISPOSAL FACILITY

	ADDRESS:	PHONE:
PERMIT NO.	20. COMMENTS	

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

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

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

CHEVRON
MCBU

Carlsbad, NM

NO #CAR- 4124 **NON-HAZARDOUS WASTE MANIFEST** 1. PAGE ___OF___ 2. TRAILER NO.

GENERATOR

3. COMPANY NAME: CHEVRON CARLSBAD
PHONE NO.: 575-887-5676

4. ADDRESS: 5301 LOMAS DR.
CITY / STATE / ZIP: CARLSBAD, NM 88220

5. PICK-UP DATE: 3/28/22

6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Contaminated Soil		1	20 yrd		
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS: SD [illegible] 15 [illegible] [illegible]

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: [illegible] 575 [illegible] 1372
SIGNATURE: [illegible]
DATE: 3/28/22

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:
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

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

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

CHEVRON
MCBU

Carlsbad, NM

NO #CAR- 4125	NON-HAZARDOUS WASTE MANIFEST	1. PAGE ___OF___	2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD	5301 LOMAS DR.	3/29/22
PHONE NO. 575-887-5676	CITY / STATE / ZIP: CARLSBAD, NM 88220	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Contaminated sand		1	20 yd		
b.					
c.					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
SD [illegible] 15-15cu1 CC: UCPK9L03X	

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
Jessie Banda JBZN 575-988-4860	[signature]	3/29/22

TRANSPORTERS

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

DISPOSAL FACILITY

	ADDRESS:	PHONE:
PERMIT NO.	20. COMMENTS	

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

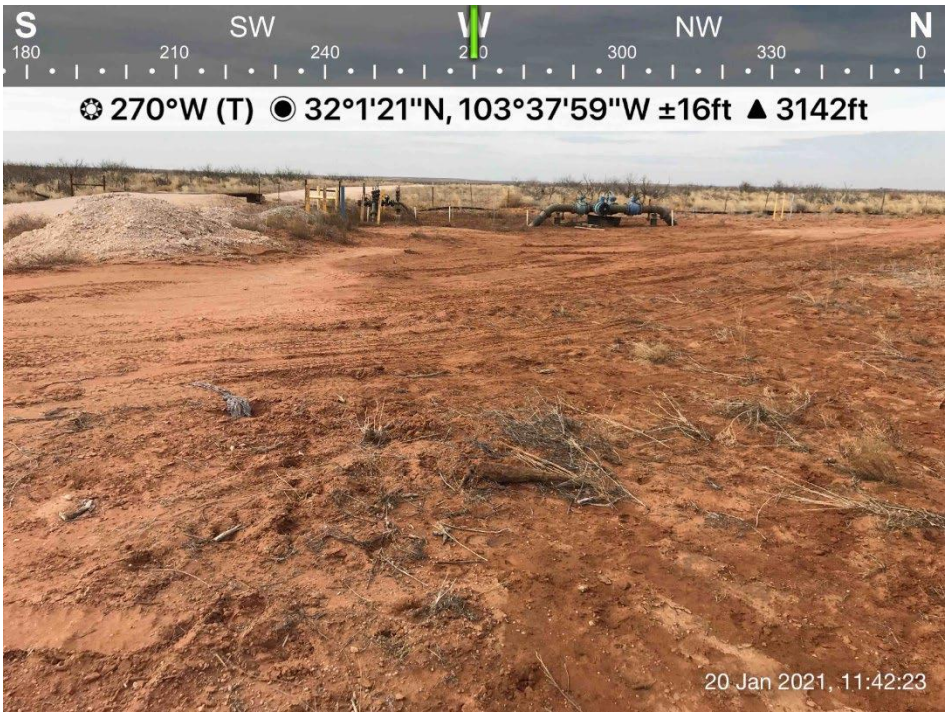
Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 5301 Lomas Dr., Carlsbad, NM 88220

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

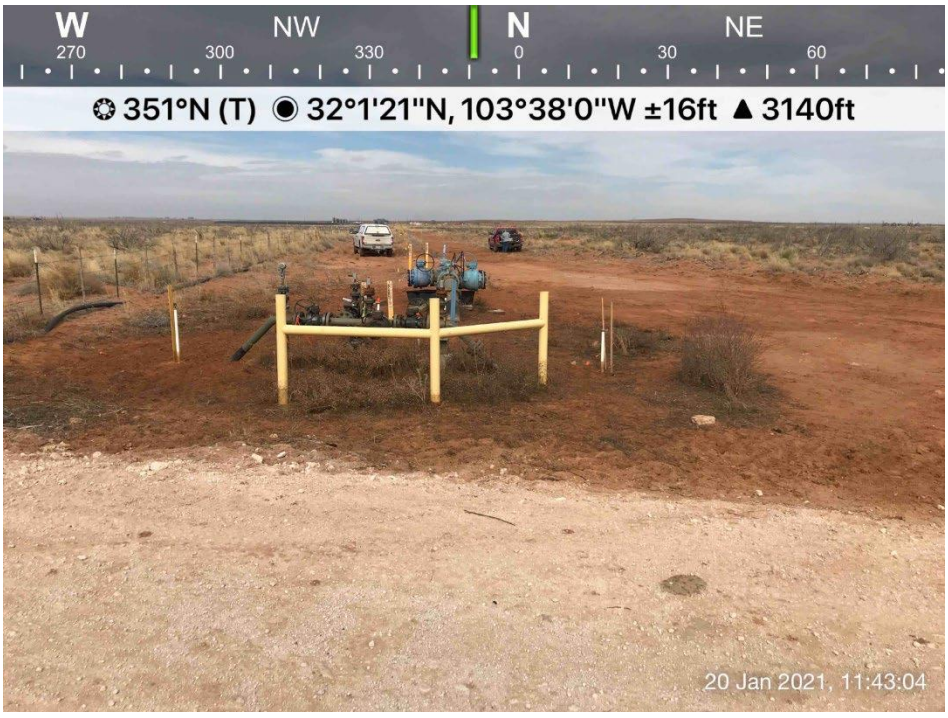
Appendix G

Photographs

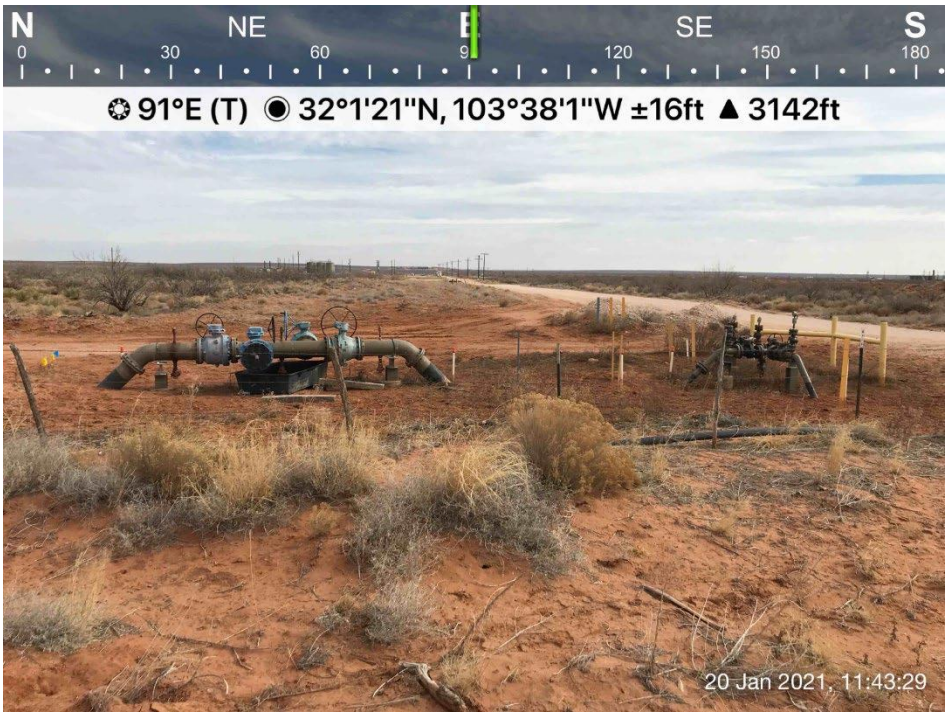
Tracking Number: nAPP2034962750
Closure Report
Chevron USA, Inc., Salado Draw 24 TB
Produced Water Release
May 5, 2022



Impacted area viewing West, January 20, 2021



Impacted area viewing North, January 20, 2021



Impacted area viewing East, January 20, 2021

Impacted area viewing Southeast, January 20, 2021

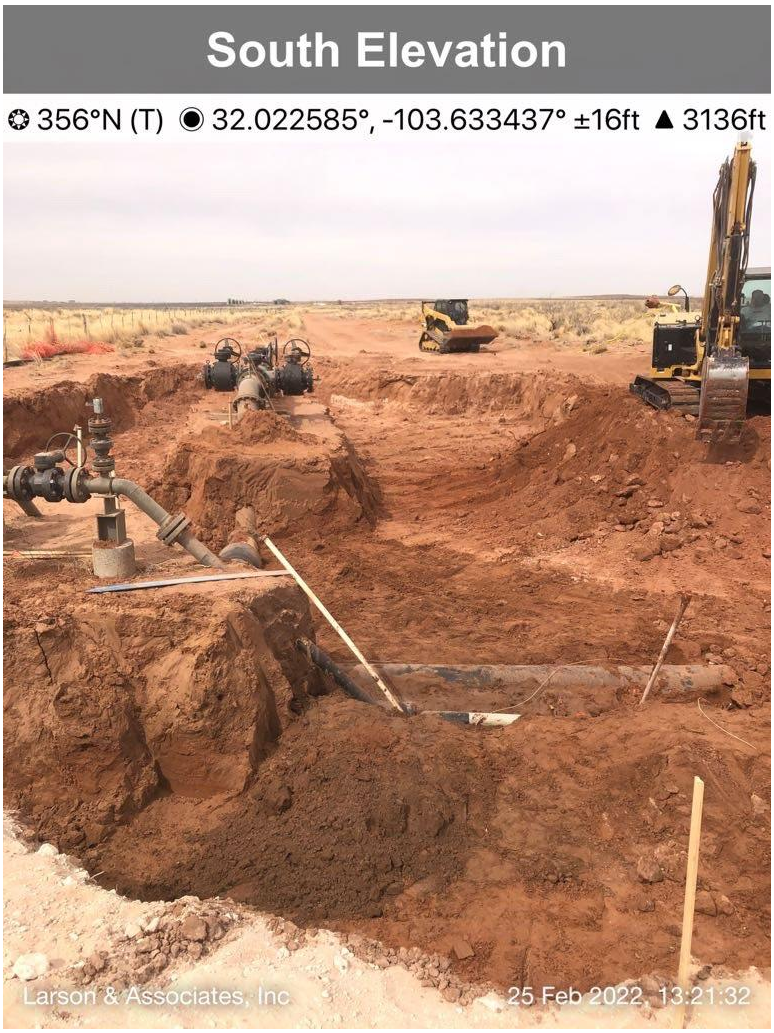
Tracking Number: nAPP2034962750
Closure Report
Chevron USA, Inc., Salado Draw 24 TB
Produced Water Release
May 5, 2022

Excavated area viewing north, February 25, 2022

Tracking Number: nAPP2034962750
Closure Report
Chevron USA, Inc., Salado Draw 24 TB
Produced Water Release
May 5, 2022

Excavated area viewing east, February 25, 2022

Tracking Number: nAPP2034962750
Closure Report
Chevron USA, Inc., Salado Draw 24 TB
Produced Water Release
May 5, 2022



Excavated area viewing north, February 25, 2022

Tracking Number: nAPP2034962750
Closure Report
Chevron USA, Inc., Salado Draw 24 TB
Produced Water Release
May 5, 2022

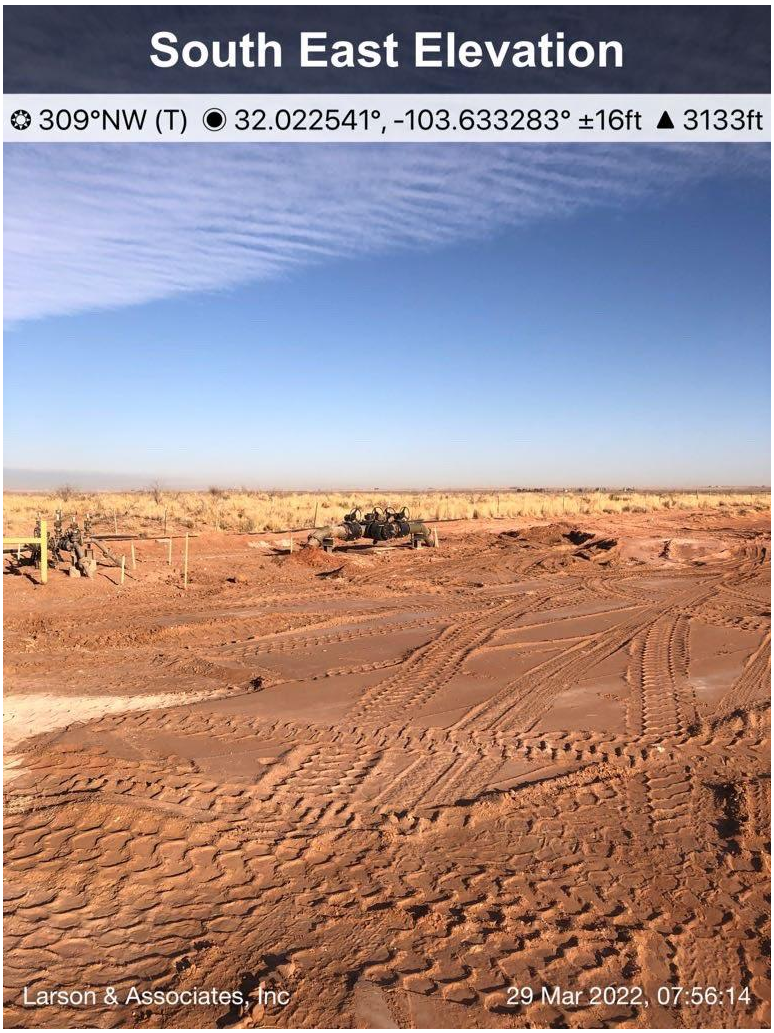
Excavated soil encompassing SW-1, March 18, 2022

Excavated soil encompassing SW-3, March 18, 2022

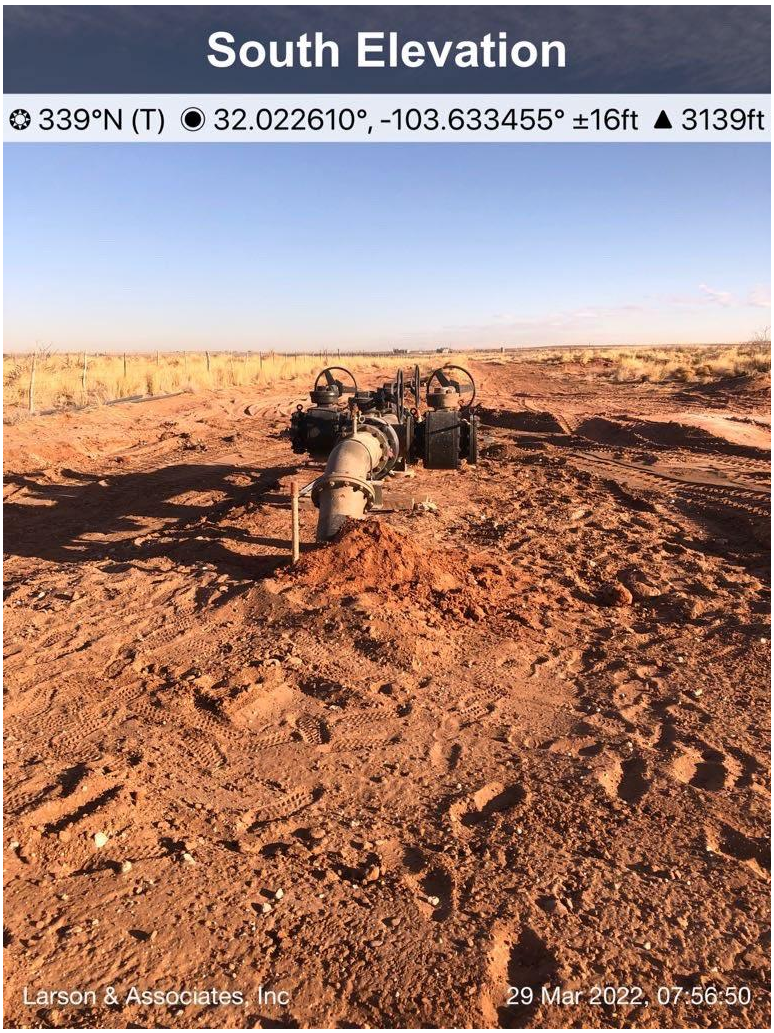
Excavated soil encompassing SW-5, March 18, 2022

Excavated soil encompassing SW-6, March 18, 2022

Tracking Number: nAPP2034962750
Closure Report
Chevron USA, Inc., Salado Draw 24 TB
Produced Water Release
May 5, 2022

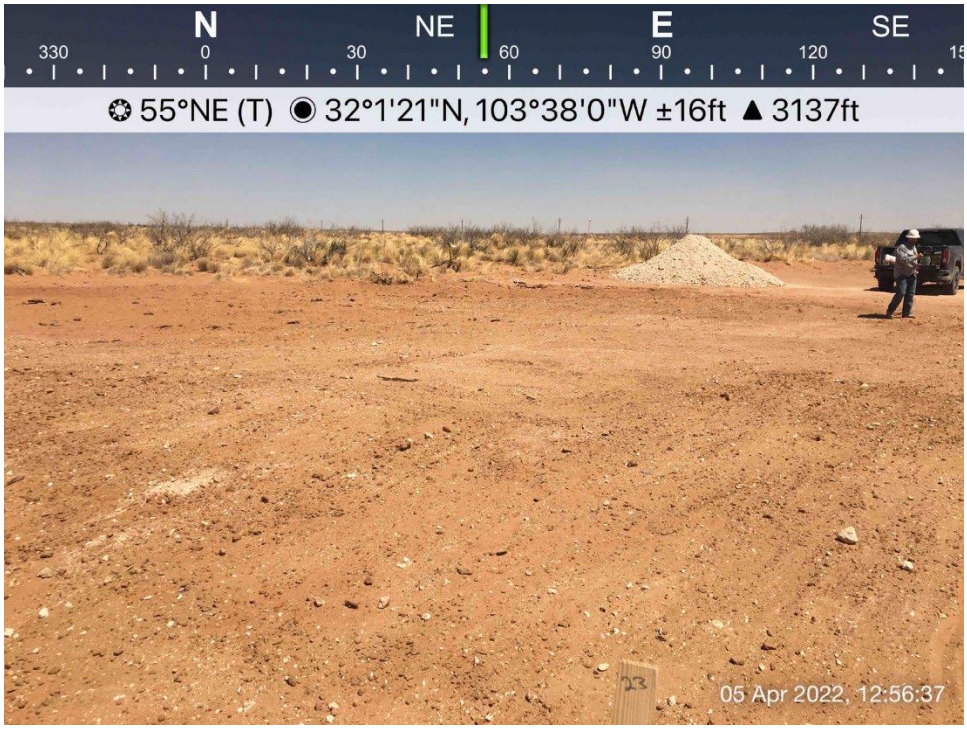


Backfilled Excavation, March 29, 2022



Backfilled Excavation, March 29, 2022

Seeded Excavation Area, April 5, 2022



Seeded Excavation Area, April 5, 2022

Tracking Number: nAPP2034962750
Closure Report
Chevron USA, Inc., Salado Draw 24 TB
Produced Water Release
May 5, 2022

Seeded Excavation Area, April 5, 2022

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

COMMENTS

Action 104702

COMMENTS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 104702
	Action Type: [C-141] Release Corrective Action (C-141)

COMMENTS

Created By	Comment	Comment Date
jharimon	Missing the Initial C-141 pages 1-2	5/5/2022

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 104702

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 104702
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved.	5/25/2022