

Incident ID	nAPP2203942460
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?	<u>>116</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ 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

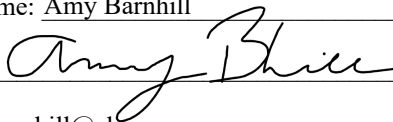
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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

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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: Waste and Water Specialist
Signature:  Date: 6-7-22
email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: _____ Date: _____

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Remediation Plan

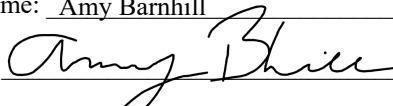
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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

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

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

Printed Name: Amy Barnhill Title: Waste and Water Specialist
Signature:  Date: 6-7-22
email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: _____ Date: _____

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

Signature:  Date: 06/10/2022

Tracking Number: nAPP2203942460
Delineation Report and Remediation Plan
Cotton Draw TB
Crude Oil and Produced Water Release
Lea County, New Mexico

Latitude: N 32.13851°
Longitude: W -103.66322°

LAI Project No. 22-0105-05

June 3, 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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Tracking Number: nAPP2203942460
Delineation Report and Remediation Plan
Cotton Draw TB, Chevron USA, Inc.
Crude Oil and Produced Water Release
June 3, 2022

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Chevron USA Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (NMOCD) District I for a crude oil and produced water release at the Cotton Draw TB (Site) located in Unit K (SE/4 of SW/4), Section 10, Township 25 South, Range 32 East in Lea County, New Mexico. The geodetic position is North 32.13851° and West -103.66322°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on February 5, 2022, due to internal corrosion on piping. Chevron reported that 86.87 barrels (bbls) of crude oil and 130.22 bbls of produced water was released, with 82 bbls of crude oil and 123 bbls of produced water recovered. The affected area measures approximately 2,612 square feet. The initial C-141 was submitted to OCD District I on February 8, 2022. The release was assigned incident number nAPP2203942460. Appendix A presents the initial C-141 and Chevron spill calculation.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,447 feet above mean sea level (msl).
- The surface elevation gradually decreases to the southwest.
- There are no surface water features within 1,000 feet of the Site.
- Karst data provided by the USGS describes the Site as “Low Risk” potential.
- The soils are designated as Pyote loamy find sand, consisting of 0 to 25 inches loamy fine sand, underlain by 25 to 60 inches of fine sandy loam.
- Surface geology is Quaternary deposits (Holocene) eolian sand, dunes, dune ridges, and sheets undivided.
- Groundwater occurs at depth greater than 116 feet below ground surface (bgs) based on depth to groundwater measurements taken 72 hours after installing a boring (BH-1) on May 11, 2022.

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

1.3 Remediation Standards

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.

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Delineation Report and Remediation Plan
Cotton Draw TB, Chevron USA, Inc.
Crude Oil and Produced Water Release
June 3, 2022

2.0 DELINEATION

On February 9, 2022, LAI personnel used a stainless-steel hand auger to collect soil samples from eleven (11) locations (S-1 through S-11) inside and outside the spill area for vertical and horizontal delineation. The samples were collected at approximately 0.5 and 1-foot bgs, depending on subsurface conditions. Due to the location of the release within a pipeline right of way (ROW), Chevron personnel required that a hydrovac be used to excavate soil encompassing the pipeline. Hydrovac media (i.e., soil, water, and rock) was placed in roll-off vac boxes and hauled to R360 Halfway Facility located between Hobbs and Carlsbad, New Mexico. Additional excavated soil was placed on a poly liner adjacent to the excavation prior to being hauled to disposal. Soil was excavated to a depth of approximately eight (8) feet bgs from the area adjacent to the leak.

On February 11, 2022, LAI personnel collected confirmation soil samples (C-1 through C-13) from the bottom and sidewalls of the area excavated for repairing the line where the leak occurred. Eurofins Xenco Laboratories (Xenco) analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX), total petroleum hydrocarbons (TPH) including gasoline range organics (C6 to C12), diesel range organics (>C12 to C28) and oil range organics (>C28 to C35), and chloride by EPA SW-846 Methods 8021B and 8015 and EPA Method 300, respectively. The laboratory reported the following analyte concentrations above the NMOCD closure standards in Table 1 of 19.15.29 NMAC:

Sample ID	Location	BTEX, mg/Kg	TPH, mg/Kg	Chloride, mg/Kg
C-2	Bottom/Ramp	136	9,350	--
C-6	Bottom/Ramp	--	101	2,690
C-7	Bottom/Ramp	--	462	--
C-9	Bottom/Ramp	--	--	4,220
C-12	Sidewall	--	775	--

On February 9 and 11, 2022, LAI personnel used a stainless-steel hand auger to delineate confirmation sample locations C-1 and C-2 an additional three (3) feet to a depth of approximately eleven (11) feet bgs. Xenco, in Midland, Texas, analyzed the samples for BTEX, TPH and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively.

Benzene, BTEX, TPH and/or chloride exceeded the OCD delineation limits of 10 mg/Kg, 50 mg/Kg, 100/2,500 mg/Kg and 600/20,000 mg/Kg, respectively in the following delineation samples:

Sample ID	Depth (Feet)	Benzene (mg/Kg)	BTEX (mg/Kg)	TPH Concentration (mg/Kg)	Chloride Concentration (mg/Kg)
S-3	1	--	--	--	5,000
S-5	0.5	--	--	--	2,220
C-1	11	--	73.9	6,250	--
C-2	9	10.4	153	10,400	--
C-2	10	--	118	7,820	--

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C-2	11	--	98.9	5,640	--
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On February 16, 2022, KSI Industries, LLC (KSI) under supervision from LAI personnel, used a trackhoe to further delineate confirmation sample locations C-1, C-2, C-14, and C-15 to a depth of approximately thirteen (13) feet bgs at sample locations C-1 and C-2, and to about eleven (11) feet bgs at sample locations C-14 and C-15.

On April 19 and 20, 2022, LAI personnel used the Geoprobe 7822DT direct push rig to vertically delineate all delineation sample locations (S-1 through S-11) to a depth of approximately ten (10) feet bgs. Soil samples were collected at a depth of approximately one (1), three (3), five (5), and ten (10) feet bgs. The laboratory results demonstrate the release was delineated according to the NMOCD remediation and closure requirements in Table 1 of 19.15.29.12 NMAC. Table 1 presents the analytical data summary. Figure 3 presents an aerial map showing the excavation and confirmation sample locations. Appendix D presents the laboratory reports. Appendix E presents photographic documentation.

3.0 REMEDIATION PLAN

Chevron proposes the following remedial actions:

- Excavate soil from an area measuring approximately 144 square feet encompassing sample location S-7 to a depth of approximately 2 feet bgs.
- Excavate soil from an area measuring approximately 1,298 square feet encompassing sample locations S-3, S-5, C-6, C-7, C-9 to a depth of approximately 4.1 feet bgs.
- Excavate soil from an area measuring approximately 154 square feet encompassing sample locations C-1 and C-2 to a depth of approximately 12 feet bgs.
- Excavate soil from sidewall sample location C-12 an additional 1-foot.
- Collect five (5) point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH and chloride.
- Backfill excavation with clean topsoil in the right of way OCD remediation levels.
- Seed the excavation area with BLM mix #2.
- Prepare report with photographs for submittal to NMOCD District I.

Figure 4 presents an aerial map showing the proposed excavation area.

Tables

Table 1

Delineation and Confirmation Soil Sample Analytical Data Summary
Chevron USA, Cotton Draw TB
Lea County, New Mexico
North 32°08'18.20", West 103°39'47.66"

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
Delineation Sample Data												
C-1	Bottom	9	2/11/2022	In-Situ	0.0914	0.521	811	882	<49.9	1,690	8,950	
		10	2/11/2022	In-Situ	0.0182	5.14	368	771	<50.0	1,140	8,020	
		11	2/11/2022	In-Situ	0.896	73.9	2,930	3,320	<49.9	6,250	10,700	
		12	2/16/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	3,730	
		13	2/16/2022	In-Situ	<0.00200	<0.00401	<50.0	97.5	<50.0	97.5	2,200	
C-2	Bottom	9	2/11/2022	In-Situ	10.4	153	5,090	5,300	<50.0	10,400	6,070	
		10	2/11/2022	In-Situ	1.70	118	3,740	4,080	<50.0	7,820	8,420	
		11	2/11/2022	In-Situ	1.72	98.9	2,570	3,070	<49.9	5,640	10,700	
		12	2/16/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	3,970	
		13	2/16/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	5,250	
C-14	Bottom	9	2/16/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	139	
		10	2/16/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	50.5	
		11	2/16/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	224	
C-15	Bottom	9	2/16/2022	In-Situ	<0.00200	0.0508	<49.9	<49.9	<49.9	<49.9	62.8	
		10	2/16/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	11.4	
		11	2/16/2022	In-Situ	<0.00200	<0.00404	<50.0	<50.0	<50.0	<50.0	18.7	
S-1	--	0.5	2/9/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	55.6	
		1	2/9/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	12.6	
		1	4/19/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	7.53	
		3	4/19/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	33.7	
		5	4/19/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	5.39	
		10	4/19/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<4.99	
S-2	--	0.5	2/9/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	39.1	
		1	2/9/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	14.3	
		1	4/19/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	297	
		3	4/19/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	137	
		5	4/19/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	59.2	
		10	4/19/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	6.63	
S-3	--	0.5	2/9/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	330	

Table 1

Delineation and Confirmation Soil Sample Analytical Data Summary
Chevron USA, Cotton Draw TB
Lea County, New Mexico
North 32°08'18.20", West 103°39'47.66"

		1	2/9/2022	In-Situ	0.00288	<0.00399	<50.0	<50.0	<50.0	<50.0	5,000
		1	4/19/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	31.6
		3	4/19/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<4.99
		5	4/19/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<5.00
		10	4/19/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	22.4
S-4	--	0.5	2/9/2022	In-Situ	<0.00198	<0.00396	<50.0	55.0	<50.0	55.0	75.6
		1	2/9/2022	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	13.5
		1	4/20/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	78.7
		3	4/20/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	9.64
		5	4/20/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	14.7
		10	4/20/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<4.95
S-5	--	0.5	2/9/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	2,030
		1	2/9/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	101
		1	4/19/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	2,220
		3	4/19/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	28.2
		5	4/19/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	7.44
		10	4/19/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<4.98
S-6	--	0.5	2/9/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	8.29
		1	2/9/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<4.98
		1	4/19/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	113
		3	4/19/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	5.78
		5	4/19/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<4.99
		10	4/19/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	12.4
S-7	--	0.5	2/9/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	5.22
		1	2/9/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<5.04
		1	4/20/2022	In-Situ	<0.00200	<0.00400	<49.9	55.1	<49.9	55.1	2,670
		3	4/20/2022	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	32.2
		5	4/20/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	6.03
		10	4/20/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<4.97
S-8	--	0.5	2/9/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<4.95
		1	4/20/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	121
		3	4/20/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<5.04
		5	4/20/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<4.99
		10	4/20/2022	In-Situ	<0.00201	<0.00402	<49.9	88.6	<49.9	88.6	<4.96
S-9	--	0.5	2/9/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<4.98
		1	4/19/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	5.26

Table 1

Delineation and Confirmation Soil Sample Analytical Data Summary
Chevron USA, Cotton Draw TB
Lea County, New Mexico
North 32°08'18.20", West 103°39'47.66"

		3	4/19/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	23.2
		5	4/19/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<4.98
		10	4/19/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<4.99
S-10	--	0.5	2/9/2022	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	63.8
		1	4/19/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	128
		3	4/19/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	5.44
		5	4/19/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<5.00
		10	4/19/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<4.95
S-11	--	0.5	2/9/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	71.1
		1	4/20/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	70.9
		3	4/20/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<4.96
		5	4/20/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<4.97
		10	4/20/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<5.00
Confirmation Sample Data											
C-1	Bottom	8	2/11/2022	In-Situ	<0.00199	0.233	81.3	257	<50.0	338	4,310
C-2	Bottom	8	2/11/2022	In-Situ	6.67	136	4,600	4,750	<49.9	9,350	3,530
C-3	Bottom/Ramp	6	2/11/2022	In-Situ	0.0396	6.43	202	1,350	<49.9	1,550	1,140
C-4	Bottom/Ramp	6	2/11/2022	In-Situ	0.00764	1.10	107	365	<50.0	472	1,440
C-5	Bottom/Ramp	5	2/11/2022	In-Situ	<0.00200	0.0184	<49.9	119	<49.9	119	314
C-6	Bottom/Ramp	3	2/11/2022	In-Situ	<0.00199	0.0245	<50.0	101	<50.0	101	2,690
C-7	Bottom/Ramp	2	2/11/2022	In-Situ	<0.00200	0.106	57.8	404	<50.0	462	360
C-8	Bottom/Ramp	2	2/11/2022	In-Situ	<0.00199	0.0129	<50.0	<50.0	<50.0	<50.0	14.4
C-9	Bottom/Ramp	2	2/11/2022	In-Situ	<0.00200	0.0210	<49.9	<49.9	<49.9	<49.9	4,220
C-10	Sidewall	4.1-8	2/11/2022	In-Situ	<0.200	19.3	847	1,500	<49.9	2,350	3,890
C-11	Sidewall	4.1-8	2/11/2022	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	584
C-12	Sidewall	0-4.1	2/11/2022	In-Situ	<0.00199	0.0373	134	641	<50.0	775	118
C-13	Sidewall	0-4.1	2/11/2022	In-Situ	<0.00198	<0.00398	<49.9	<49.9	<49.9	<49.9	<5.05
C-14	Bottom	8	2/16/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	162
C-15	Bottom	8	2/16/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	162
C-16	Sidewall	0 - 4.1	2/16/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	20.1
		4.1 - 8	2/16/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	116
		0 - 4.1	2/16/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	95.3
		4.1 - 8	2/16/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	39.1

Table 1
Delineation and Confirmation Soil Sample Analytical Data Summary
Chevron USA, Cotton Draw TB
Lea County, New Mexico
North 32°08'18.20", West 103°39'47.66"

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

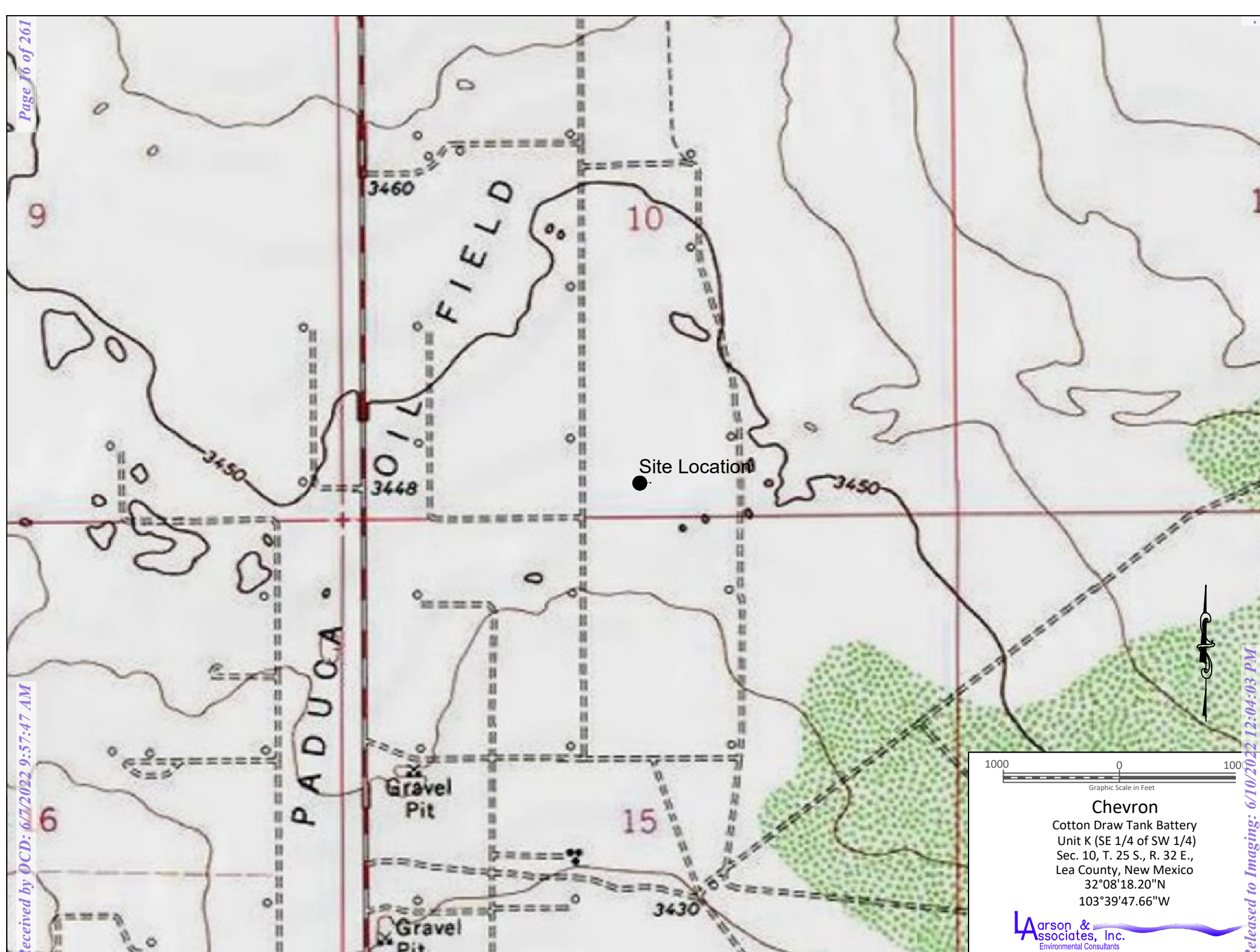


Figure 1 - Topographic Map

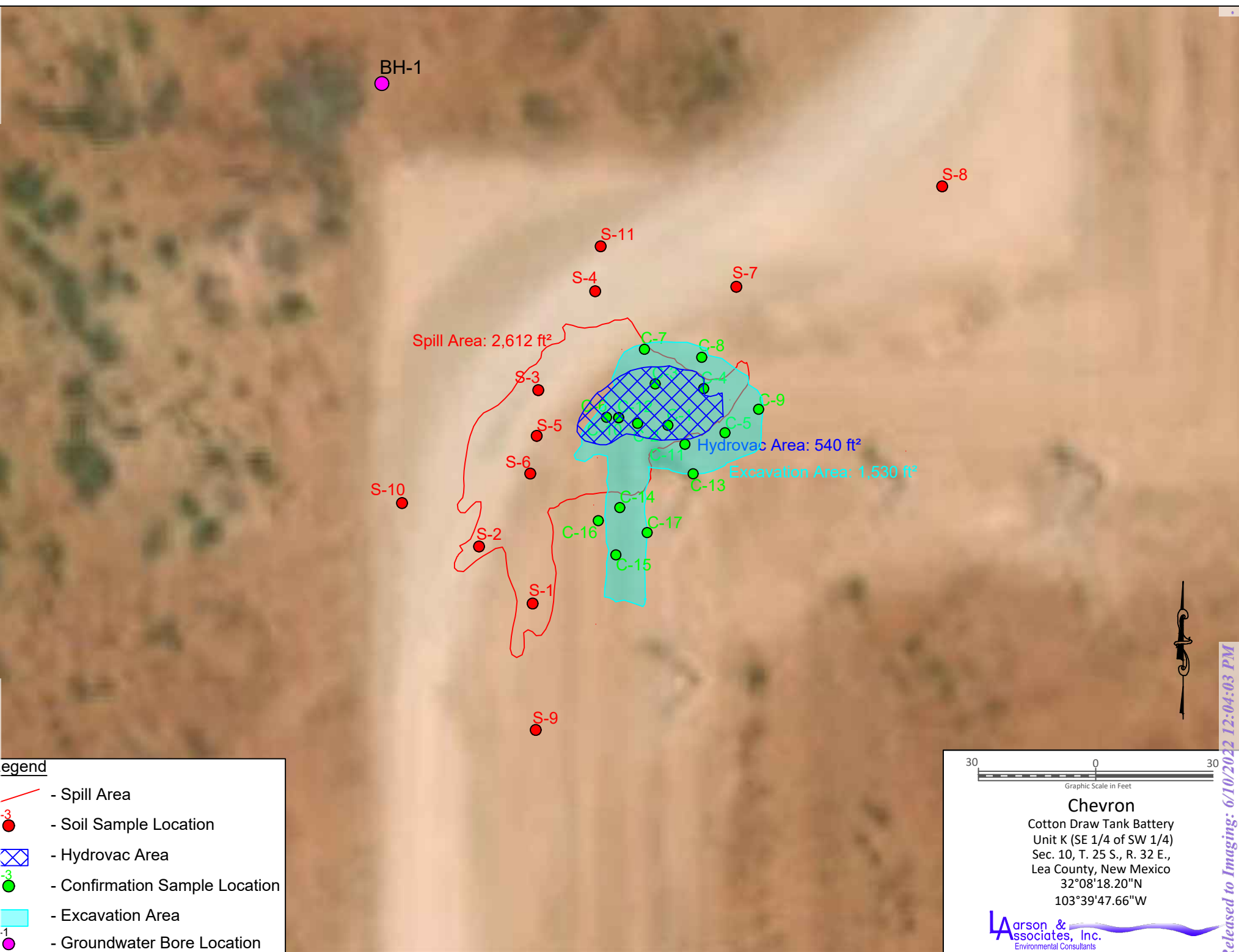


Figure 2 - Aerial Map Showing Excavation and Confirmation Sample Locations

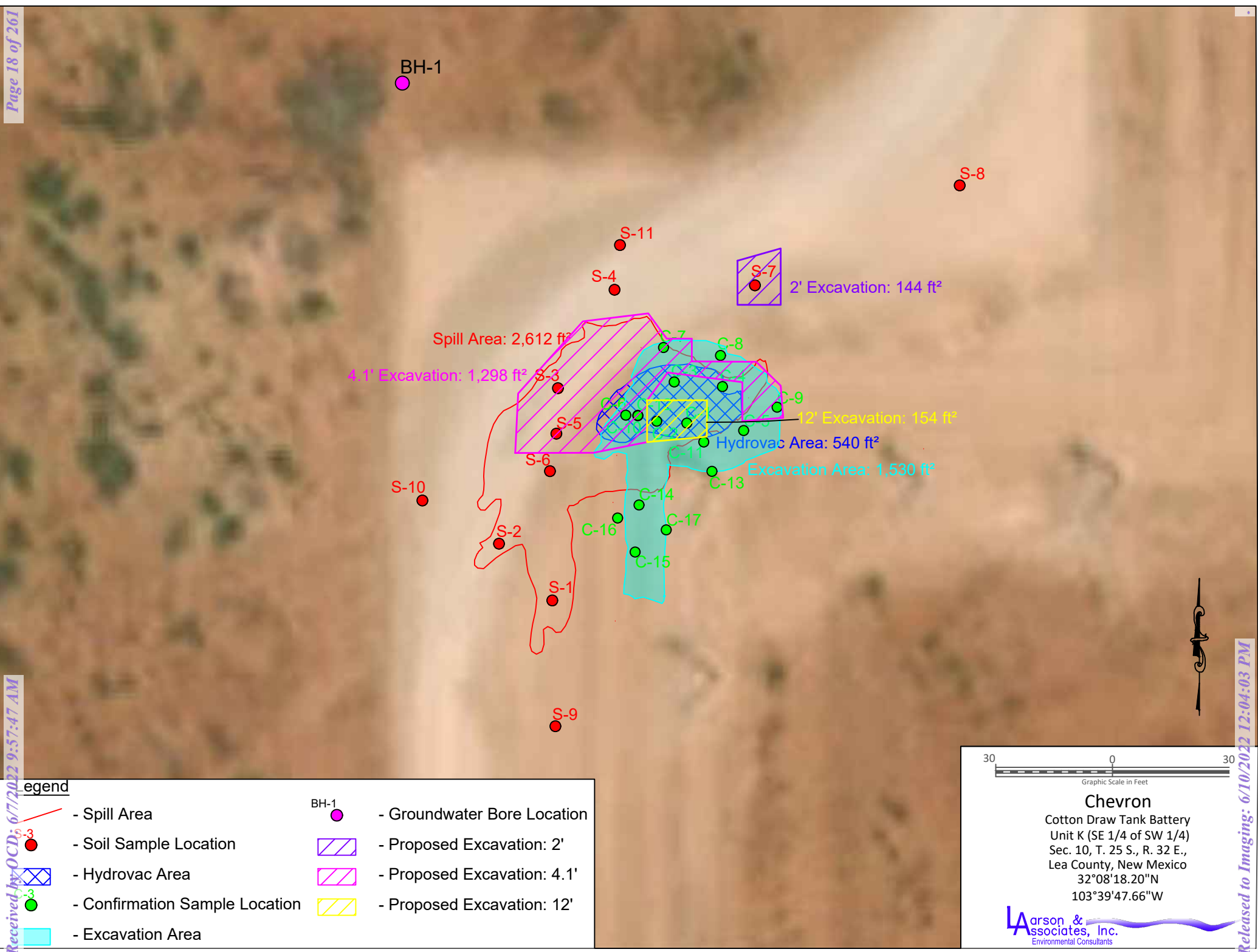


Figure 3 - Aerial Map Showing Excavation and Confirmation Sample Locations

Appendix A
Chevron Spill Calculation

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	nAPP2203942460
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron USA	OGRID: 4323
Contact Name: Amy Barnhill	Contact Telephone: 432-687-7108
Contact email: ABarnhill@chevron.com	Incident # (assigned by OCD)
Contact mailing address: 6301 Deauville Blvd Midland, Tx 79706	

Location of Release Source

Latitude 32.13851083 _____ Longitude -103.66322782 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Cotton Draw TB	Site Type: Oil
Date Release Discovered: 2-5-22	API# (if applicable)

Unit Letter	Section	Township	Range	County
M	10	25S	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) 86.87	Volume Recovered (bbls) 82
☒ Produced Water	Volume Released (bbls) 130.32	Volume Recovered (bbls) 123
	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)

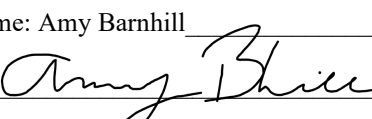
Cause of Release: Internal corrosion on piping

Incident ID	nAPP2203942460
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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Amy Barnhill e-mailed Mike Bratcher on 2-5-22 at 6:30pm	

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 <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Amy Barnhill	Title: Water Specialist
Signature: 	Date: 2-8-22
email: ABarnhill@chevron.com	Telephone: 432-687-7108
<u>OCD Only</u>	
Received by:	Date:

Incident ID	nAPP2203942460
District RP	
Facility ID	
Application ID	

Spill Calculations:

These are approximate calculations are for fluid in soil. The standing fluid picked up was ~205 bbls.

Area 1

Shape: Circle

Secondary Containment?: No

Standing Liquid Dimensions: 3 ft x 48

Total Volume: 5.791 bbl

Water Cut: 60%

Oil Volume: 2.316 bbl

Penetration Depth: 48 in

Fluid to Soil Volume: .755 bbl

Water Volume: 3.475 bbl

Area 2

Shape: Rectangle

Secondary Containment?: No

Standing Liquid Dimensions: 22 ft x 3 ft x 5 in

Total Volume: 5.633 bbl

Water Cut: 60%

Oil Volume: 2.253 bbl

Penetration Depth: 5 in

Volume to Soil Volume: .735 bbl

Water Volume: 3.38 bbl

Area 3

Shape: Rectangle

Secondary Containment?: No

Standing Liquid Dimensions: 20 ft x 3 ft x .75 in

Total Volume: .768 bbl

Water Cut: 60%

Oil Volume: .307 bbl

Penetration Depth: .75 in

Fluid to Soil Volume: .100 bbl

Water Volume: 0.461 bbl

Appendix B
Karst Risk Potential



Appendix C

Boring Log

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 09:45 Finish: 11:30 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE			REMARKS				
					PPM X _____										NUMBER	PID READING	RECOVERY	DEPTH	BACKGROUND PID READING			
					2	4	6	8	10	12	14	16	18									
	65	At 60' More Pebbles, Rounded to Sub Rounded, Moderate Sorting	SC																			
	70	At 65' Clayey Sand, 2.5YR 4/6, Fine to Very Fine Grained Sand, Rounded to Sub																				
	75	Rounded, Well Sorted, More Clay Type																				
	80	Very Fine Grained Sand, More Clay, Very Well Sorted, Clay Grains																				
	85	Clayey Sand, 2.5YR 6/4, Light Reddish Brown, Some Pebble with Fine to Very Fine Grained Sand, Poor Cemented,	CL																			
	90	Rounded to Sub Rounded Sandy Clay, 7.5YR 5/4, Reddish Brown, Very Fine to																				
	95	Fine with Few Pebbles, Well Sorted, Angular to Sub																				
	100	Rounded More Clay Present than Sand, No Pebbles	SC																			
	105	Clayey Sand, 2.5YR 5/3, Reddish Brown, Sub Angular to Sub Rounded, Moderate																				
	110	Sorting More Sand, Very Fine to Fine Grained Sand, Less Clay																				
	115	2.5YR 4/6, Clay with Few Sand, Very Fine Grained Sand, Sub Angular, Largest Pieces																				
	120	TD: 116' Dry After 72 Hours																				
	125																					

☐ ONE CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)	JOB NUMBER : <u>Chevron /22-0105-05</u>
☐ STANDARD PENETRATION TEST	LABORATORY TEST LOCATION	HOLE DIAMETER : <u>5"</u>
☐ UNDISTURBED SAMPLE	PENETROMETER (TONS/ SQ. FT)	LOCATION : <u>Cotton Draw</u>
WATER TABLE (24 HRS)	NR NO RECOVERY	LAI GEOLOGIST : <u>T. Peters</u>

	DRILL DATE : <u>5/11/2022</u>	BORING NUMBER : <u>BH-1</u>	DRILLING CONTRACTOR : <u>SDI</u>
			DRILLING METHOD : <u>Air Rotary</u>

Appendix D
Laboratory Reports



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-11151-1
Laboratory Sample Delivery Group: 22-0105-05
Client Project/Site: Cotton Draw TB

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

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
2/17/2022 4:07:31 PM

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

LINKS

Review your project
results through

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Visit us at:

www.eurofinsus.com/Env

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.

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Laboratory Job ID: 880-11151-1
SDG: 22-0105-05

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

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
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
α	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: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Job ID: 880-11151-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-11151-1****Receipt**

The samples were received on 2/10/2022 9:00 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 time was 0.2°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 0.5' (880-11151-1), S-1 1' (880-11151-2), S-2 0.5' (880-11151-3), S-2 1' (880-11151-4), S-3 0.5' (880-11151-5), S-3 1' (880-11151-6), S-4 0.5' (880-11151-7), S-4 1' (880-11151-8), S-5 0.5' (880-11151-9), S-5 1' (880-11151-10), S-6 0.5' (880-11151-11), (MB 880-19128/1-A), (880-11151-A-1-H MS) and (880-11151-A-1-I MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-11152-A-21-C MS) and (880-11152-A-21-D MSD). 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-19062 and analytical batch 880-19434 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-1 0.5'

Lab Sample ID: 880-11151-1

Date Collected: 02/09/22 11:20

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F2 F1	0.00201	mg/Kg		02/10/22 11:07	02/11/22 21:16	1
Toluene	<0.00201	U F1	0.00201	mg/Kg		02/10/22 11:07	02/11/22 21:16	1
Ethylbenzene	<0.00201	U F2 F1	0.00201	mg/Kg		02/10/22 11:07	02/11/22 21:16	1
m,p-Xylenes	<0.00402	U F2 F1	0.00402	mg/Kg		02/10/22 11:07	02/11/22 21:16	1
o-Xylene	<0.00201	U F2 F1	0.00201	mg/Kg		02/10/22 11:07	02/11/22 21:16	1
Xylenes, Total	<0.00402	U F1	0.00402	mg/Kg		02/10/22 11:07	02/11/22 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	02/10/22 11:07	02/11/22 21:16	1
1,4-Difluorobenzene (Surr)	76		70 - 130	02/10/22 11:07	02/11/22 21:16	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			02/14/22 08:57	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			02/17/22 15:56	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		02/11/22 11:24	02/12/22 21:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/11/22 11:24	02/12/22 21:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/11/22 11:24	02/12/22 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	62	S1-	70 - 130	02/11/22 11:24	02/12/22 21:16	1
o-Terphenyl (Surr)	77		70 - 130	02/11/22 11:24	02/12/22 21:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.6	F1	4.95	mg/Kg			02/15/22 16:38	1

Client Sample ID: S-1 1'

Lab Sample ID: 880-11151-2

Date Collected: 02/09/22 11:22

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/11/22 21:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/11/22 21:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/11/22 21:43	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/11/22 21:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/11/22 21:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/11/22 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	02/10/22 11:07	02/11/22 21:43	1
1,4-Difluorobenzene (Surr)	83		70 - 130	02/10/22 11:07	02/11/22 21:43	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-1 1'

Lab Sample ID: 880-11151-2

Date Collected: 02/09/22 11:22

Matrix: Solid

Date Received: 02/10/22 09:00

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			02/14/22 08:57	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			02/17/22 15:56	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		02/11/22 11:24	02/12/22 22:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/11/22 11:24	02/12/22 22:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/11/22 11:24	02/12/22 22:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	63	S1-	70 - 130			02/11/22 11:24	02/12/22 22:23	1
o-Terphenyl (Surr)	77		70 - 130			02/11/22 11:24	02/12/22 22:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.6		5.04	mg/Kg			02/15/22 16:56	1

Client Sample ID: S-2 0.5'

Lab Sample ID: 880-11151-3

Date Collected: 02/09/22 11:24

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/11/22 22:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/11/22 22:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/11/22 22:09	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/10/22 11:07	02/11/22 22:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/11/22 22:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/10/22 11:07	02/11/22 22:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			02/10/22 11:07	02/11/22 22:09	1
1,4-Difluorobenzene (Surr)	90		70 - 130			02/10/22 11:07	02/11/22 22:09	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			02/14/22 08:57	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			02/17/22 15:56	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		02/11/22 11:24	02/12/22 22:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/11/22 11:24	02/12/22 22:45	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-2 0.5'

Lab Sample ID: 880-11151-3

Date Collected: 02/09/22 11:24

Matrix: Solid

Date Received: 02/10/22 09:00

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		02/11/22 11:24	02/12/22 22:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	63	S1-	70 - 130			02/11/22 11:24	02/12/22 22:45	1
o-Terphenyl (Surr)	74		70 - 130			02/11/22 11:24	02/12/22 22:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.1		4.97	mg/Kg			02/15/22 17:02	1

Client Sample ID: S-2 1'

Lab Sample ID: 880-11151-4

Date Collected: 02/09/22 11:26

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/10/22 11:07	02/11/22 22:36	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/10/22 11:07	02/11/22 22:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/10/22 11:07	02/11/22 22:36	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		02/10/22 11:07	02/11/22 22:36	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/10/22 11:07	02/11/22 22:36	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/10/22 11:07	02/11/22 22:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			02/10/22 11:07	02/11/22 22:36	1
1,4-Difluorobenzene (Surr)	86		70 - 130			02/10/22 11:07	02/11/22 22:36	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			02/14/22 08:57	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			02/17/22 15:56	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		02/11/22 11:24	02/12/22 23:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/11/22 11:24	02/12/22 23:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/11/22 11:24	02/12/22 23:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	64	S1-	70 - 130			02/11/22 11:24	02/12/22 23:07	1
o-Terphenyl (Surr)	75		70 - 130			02/11/22 11:24	02/12/22 23:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.3		5.00	mg/Kg			02/15/22 17:21	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-3 0.5'

Lab Sample ID: 880-11151-5

Date Collected: 02/09/22 11:28

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/11/22 23:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/11/22 23:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/11/22 23:03	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/11/22 23:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/11/22 23:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/11/22 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	02/10/22 11:07	02/11/22 23:03	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/10/22 11:07	02/11/22 23:03	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			02/14/22 08:57	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			02/17/22 15:56	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		02/11/22 11:24	02/12/22 23:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/11/22 11:24	02/12/22 23:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/11/22 11:24	02/12/22 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	62	S1-	70 - 130	02/11/22 11:24	02/12/22 23:29	1
o-Terphenyl (Surr)	75		70 - 130	02/11/22 11:24	02/12/22 23:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		4.98	mg/Kg			02/15/22 17:27	1

Client Sample ID: S-3 1'

Lab Sample ID: 880-11151-6

Date Collected: 02/09/22 11:30

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00288		0.00200	mg/Kg		02/10/22 11:07	02/11/22 23:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/11/22 23:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/11/22 23:30	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/10/22 11:07	02/11/22 23:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/11/22 23:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/10/22 11:07	02/11/22 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/10/22 11:07	02/11/22 23:30	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/10/22 11:07	02/11/22 23:30	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-3 1'

Lab Sample ID: 880-11151-6

Date Collected: 02/09/22 11:30

Matrix: Solid

Date Received: 02/10/22 09:00

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			02/14/22 08:57	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			02/17/22 15:56	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		02/11/22 11:24	02/12/22 23:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/11/22 11:24	02/12/22 23:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/11/22 11:24	02/12/22 23:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	62	S1-	70 - 130			02/11/22 11:24	02/12/22 23:49	1
o-Terphenyl (Surr)	74		70 - 130			02/11/22 11:24	02/12/22 23:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5000		24.8	mg/Kg			02/15/22 17:33	5

Client Sample ID: S-4 0.5'

Lab Sample ID: 880-11151-7

Date Collected: 02/09/22 11:32

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/10/22 11:07	02/11/22 23:57	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/10/22 11:07	02/11/22 23:57	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/10/22 11:07	02/11/22 23:57	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		02/10/22 11:07	02/11/22 23:57	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/10/22 11:07	02/11/22 23:57	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/10/22 11:07	02/11/22 23:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			02/10/22 11:07	02/11/22 23:57	1
1,4-Difluorobenzene (Surr)	88		70 - 130			02/10/22 11:07	02/11/22 23:57	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			02/14/22 08:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.0		50.0	mg/Kg			02/17/22 15:56	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		02/11/22 11:24	02/13/22 00:09	1
Diesel Range Organics (Over C10-C28)	55.0		50.0	mg/Kg		02/11/22 11:24	02/13/22 00:09	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-4 0.5'

Lab Sample ID: 880-11151-7

Date Collected: 02/09/22 11:32

Matrix: Solid

Date Received: 02/10/22 09:00

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		02/11/22 11:24	02/13/22 00:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	64	S1-	70 - 130			02/11/22 11:24	02/13/22 00:09	1
o-Terphenyl (Surr)	71		70 - 130			02/11/22 11:24	02/13/22 00:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.6		5.05	mg/Kg			02/15/22 17:39	1

Client Sample ID: S-4 1'

Lab Sample ID: 880-11151-8

Date Collected: 02/09/22 11:34

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/10/22 11:07	02/12/22 00:24	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/10/22 11:07	02/12/22 00:24	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/10/22 11:07	02/12/22 00:24	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		02/10/22 11:07	02/12/22 00:24	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/10/22 11:07	02/12/22 00:24	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/10/22 11:07	02/12/22 00:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			02/10/22 11:07	02/12/22 00:24	1
1,4-Difluorobenzene (Surr)	96		70 - 130			02/10/22 11:07	02/12/22 00:24	1

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			02/14/22 08:57	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			02/17/22 15:56	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		02/11/22 11:24	02/13/22 00:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/11/22 11:24	02/13/22 00:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/11/22 11:24	02/13/22 00:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	64	S1-	70 - 130			02/11/22 11:24	02/13/22 00:29	1
o-Terphenyl (Surr)	75		70 - 130			02/11/22 11:24	02/13/22 00:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.5		4.97	mg/Kg			02/15/22 17:45	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-5 0.5'

Lab Sample ID: 880-11151-9

Date Collected: 02/09/22 11:36

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 00:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 00:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 00:52	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/12/22 00:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 00:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/12/22 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	02/10/22 11:07	02/12/22 00:52	1
1,4-Difluorobenzene (Surr)	81		70 - 130	02/10/22 11:07	02/12/22 00:52	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			02/14/22 08:57	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			02/17/22 15:56	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		02/11/22 11:24	02/13/22 00:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/11/22 11:24	02/13/22 00:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/11/22 11:24	02/13/22 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	64	S1-	70 - 130	02/11/22 11:24	02/13/22 00:48	1
o-Terphenyl (Surr)	75		70 - 130	02/11/22 11:24	02/13/22 00:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2030		24.8	mg/Kg			02/15/22 17:51	5

Client Sample ID: S-5 1'

Lab Sample ID: 880-11151-10

Date Collected: 02/09/22 11:38

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 01:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 01:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 01:19	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/12/22 01:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 01:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/12/22 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	02/10/22 11:07	02/12/22 01:19	1
1,4-Difluorobenzene (Surr)	89		70 - 130	02/10/22 11:07	02/12/22 01:19	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-5 1'

Lab Sample ID: 880-11151-10

Date Collected: 02/09/22 11:38

Matrix: Solid

Date Received: 02/10/22 09:00

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			02/14/22 08:57	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			02/17/22 15:56	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		02/11/22 11:24	02/13/22 01:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/11/22 11:24	02/13/22 01:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/11/22 11:24	02/13/22 01:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	62	S1-	70 - 130			02/11/22 11:24	02/13/22 01:09	1
o-Terphenyl (Surr)	71		70 - 130			02/11/22 11:24	02/13/22 01:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.00	mg/Kg			02/15/22 17:57	1

Client Sample ID: S-6 0.5'

Lab Sample ID: 880-11151-11

Date Collected: 02/09/22 11:40

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/10/22 11:07	02/12/22 03:08	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/10/22 11:07	02/12/22 03:08	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/10/22 11:07	02/12/22 03:08	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		02/10/22 11:07	02/12/22 03:08	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/10/22 11:07	02/12/22 03:08	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/10/22 11:07	02/12/22 03:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			02/10/22 11:07	02/12/22 03:08	1
1,4-Difluorobenzene (Surr)	90		70 - 130			02/10/22 11:07	02/12/22 03:08	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			02/14/22 08:57	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			02/17/22 15:56	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		02/11/22 11:24	02/13/22 01:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/11/22 11:24	02/13/22 01:48	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-6 0.5'

Lab Sample ID: 880-11151-11

Date Collected: 02/09/22 11:40

Matrix: Solid

Date Received: 02/10/22 09:00

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		02/11/22 11:24	02/13/22 01:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	61	S1-	70 - 130			02/11/22 11:24	02/13/22 01:48	1
o-Terphenyl (Surr)	68	S1-	70 - 130			02/11/22 11:24	02/13/22 01:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.29		5.01	mg/Kg			02/15/22 23:07	1

Client Sample ID: S-6 1'

Lab Sample ID: 880-11151-12

Date Collected: 02/09/22 11:42

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 03:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 03:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 03:35	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/12/22 03:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 03:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/12/22 03:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			02/10/22 11:07	02/12/22 03:35	1
1,4-Difluorobenzene (Surr)	93		70 - 130			02/10/22 11:07	02/12/22 03:35	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			02/14/22 08:57	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			02/15/22 13:20	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		02/10/22 14:29	02/13/22 17:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/10/22 14:29	02/13/22 17:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/10/22 14:29	02/13/22 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			02/10/22 14:29	02/13/22 17:25	1
o-Terphenyl (Surr)	79		70 - 130			02/10/22 14:29	02/13/22 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			02/15/22 23:34	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-7 0.5'

Lab Sample ID: 880-11151-13

Date Collected: 02/09/22 11:44

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/12/22 04:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/12/22 04:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/12/22 04:02	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		02/10/22 11:07	02/12/22 04:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/12/22 04:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/10/22 11:07	02/12/22 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	02/10/22 11:07	02/12/22 04:02	1
1,4-Difluorobenzene (Surr)	113		70 - 130	02/10/22 11:07	02/12/22 04:02	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			02/14/22 08:59	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			02/15/22 13:20	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		02/10/22 14:29	02/13/22 17:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/10/22 14:29	02/13/22 17:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/10/22 14:29	02/13/22 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130	02/10/22 14:29	02/13/22 17:46	1
o-Terphenyl (Surr)	78		70 - 130	02/10/22 14:29	02/13/22 17:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.22		4.99	mg/Kg			02/15/22 23:43	1

Client Sample ID: S-7 1'

Lab Sample ID: 880-11151-14

Date Collected: 02/09/22 11:46

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/10/22 11:07	02/12/22 04:29	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/10/22 11:07	02/12/22 04:29	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/10/22 11:07	02/12/22 04:29	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		02/10/22 11:07	02/12/22 04:29	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/10/22 11:07	02/12/22 04:29	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/10/22 11:07	02/12/22 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	02/10/22 11:07	02/12/22 04:29	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/10/22 11:07	02/12/22 04:29	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-7 1'

Lab Sample ID: 880-11151-14

Date Collected: 02/09/22 11:46

Matrix: Solid

Date Received: 02/10/22 09:00

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			02/14/22 08:59	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			02/15/22 13:20	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		02/10/22 14:29	02/13/22 18:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/10/22 14:29	02/13/22 18:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/10/22 14:29	02/13/22 18:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			02/10/22 14:29	02/13/22 18:07	1
o-Terphenyl (Surr)	83		70 - 130			02/10/22 14:29	02/13/22 18:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			02/15/22 23:52	1

Client Sample ID: S-8 0.5'

Lab Sample ID: 880-11151-15

Date Collected: 02/09/22 11:48

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 04:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 04:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 04:56	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/12/22 04:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 04:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/12/22 04:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			02/10/22 11:07	02/12/22 04:56	1
1,4-Difluorobenzene (Surr)	89		70 - 130			02/10/22 11:07	02/12/22 04:56	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			02/14/22 08:59	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			02/15/22 13:20	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		02/10/22 14:29	02/13/22 18:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/10/22 14:29	02/13/22 18:27	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-8 0.5'

Lab Sample ID: 880-11151-15

Date Collected: 02/09/22 11:48

Matrix: Solid

Date Received: 02/10/22 09:00

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		02/10/22 14:29	02/13/22 18:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			02/10/22 14:29	02/13/22 18:27	1
o-Terphenyl (Surr)	85		70 - 130			02/10/22 14:29	02/13/22 18:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			02/16/22 00:00	1

Client Sample ID: S-9 0.5'

Lab Sample ID: 880-11151-16

Date Collected: 02/09/22 11:52

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 05:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 05:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 05:24	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/12/22 05:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/10/22 11:07	02/12/22 05:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/10/22 11:07	02/12/22 05:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130			02/10/22 11:07	02/12/22 05:24	1
1,4-Difluorobenzene (Surr)	91		70 - 130			02/10/22 11:07	02/12/22 05:24	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			02/14/22 08:59	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			02/15/22 13:20	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		02/10/22 14:29	02/13/22 18:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/10/22 14:29	02/13/22 18:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/10/22 14:29	02/13/22 18:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130			02/10/22 14:29	02/13/22 18:48	1
o-Terphenyl (Surr)	77		70 - 130			02/10/22 14:29	02/13/22 18:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			02/16/22 00:27	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-10 0.5'

Lab Sample ID: 880-11151-17

Date Collected: 02/09/22 11:56

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/10/22 11:07	02/12/22 05:51	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/10/22 11:07	02/12/22 05:51	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/10/22 11:07	02/12/22 05:51	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		02/10/22 11:07	02/12/22 05:51	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/10/22 11:07	02/12/22 05:51	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/10/22 11:07	02/12/22 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	02/10/22 11:07	02/12/22 05:51	1
1,4-Difluorobenzene (Surr)	79		70 - 130	02/10/22 11:07	02/12/22 05:51	1

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			02/14/22 08:59	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			02/15/22 13:20	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		02/10/22 14:29	02/13/22 19:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/10/22 14:29	02/13/22 19:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/10/22 14:29	02/13/22 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130	02/10/22 14:29	02/13/22 19:09	1
o-Terphenyl (Surr)	81		70 - 130	02/10/22 14:29	02/13/22 19:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.8		5.00	mg/Kg			02/16/22 00:36	1

Client Sample ID: S-11 0.5'

Lab Sample ID: 880-11151-18

Date Collected: 02/09/22 11:58

Matrix: Solid

Date Received: 02/10/22 09:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/12/22 06:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/12/22 06:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/12/22 06:18	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/10/22 11:07	02/12/22 06:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/12/22 06:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/10/22 11:07	02/12/22 06:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	02/10/22 11:07	02/12/22 06:18	1
1,4-Difluorobenzene (Surr)	89		70 - 130	02/10/22 11:07	02/12/22 06:18	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-11 0.5'

Lab Sample ID: 880-11151-18

Date Collected: 02/09/22 11:58

Matrix: Solid

Date Received: 02/10/22 09:00

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			02/14/22 08:59	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			02/15/22 13:20	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		02/10/22 14:29	02/13/22 19:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/10/22 14:29	02/13/22 19:29	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/10/22 14:29	02/13/22 19:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			02/10/22 14:29	02/13/22 19:29	1
o-Terphenyl (Surr)	80		70 - 130			02/10/22 14:29	02/13/22 19:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.1		4.99	mg/Kg			02/16/22 00:45	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

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)
880-11151-1	S-1 0.5'	106	76
880-11151-1 MS	S-1 0.5'	102	89
880-11151-1 MSD	S-1 0.5'	354 S1+	869 S1+
880-11151-2	S-1 1'	111	83
880-11151-3	S-2 0.5'	103	90
880-11151-4	S-2 1'	86	86
880-11151-5	S-3 0.5'	112	95
880-11151-6	S-3 1'	104	96
880-11151-7	S-4 0.5'	105	88
880-11151-8	S-4 1'	92	96
880-11151-9	S-5 0.5'	80	81
880-11151-10	S-5 1'	103	89
880-11151-11	S-6 0.5'	136 S1+	90
880-11151-12	S-6 1'	129	93
880-11151-13	S-7 0.5'	132 S1+	113
880-11151-14	S-7 1'	100	99
880-11151-15	S-8 0.5'	98	89
880-11151-16	S-9 0.5'	147 S1+	91
880-11151-17	S-10 0.5'	81	79
880-11151-18	S-11 0.5'	110	89
LCS 880-19034/1-A	Lab Control Sample	107	85
LCSD 880-19034/2-A	Lab Control Sample Dup	105	104
MB 880-18969/5-A	Method Blank	69 S1-	97
MB 880-19034/5-A	Method Blank	80	83
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)
880-11151-1	S-1 0.5'	62 S1-	77
880-11151-1 MS	S-1 0.5'	63 S1-	63 S1-
880-11151-1 MSD	S-1 0.5'	63 S1-	62 S1-
880-11151-2	S-1 1'	63 S1-	77
880-11151-3	S-2 0.5'	63 S1-	74
880-11151-4	S-2 1'	64 S1-	75
880-11151-5	S-3 0.5'	62 S1-	75
880-11151-6	S-3 1'	62 S1-	74
880-11151-7	S-4 0.5'	64 S1-	71
880-11151-8	S-4 1'	64 S1-	75
880-11151-9	S-5 0.5'	64 S1-	75
880-11151-10	S-5 1'	62 S1-	71
880-11151-11	S-6 0.5'	61 S1-	68 S1-
880-11151-12	S-6 1'	75	79
880-11151-13	S-7 0.5'	73	78

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-11151-1

Project/Site: Cotton Draw TB

SDG: 22-0105-05

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)
880-11151-14	S-7 1'	76	83
880-11151-15	S-8 0.5'	79	85
880-11151-16	S-9 0.5'	73	77
880-11151-17	S-10 0.5'	76	81
880-11151-18	S-11 0.5'	75	80
880-11152-A-21-C MS	Matrix Spike	63 S1-	63 S1-
880-11152-A-21-D MSD	Matrix Spike Duplicate	65 S1-	64 S1-
LCS 880-19128/2-A	Lab Control Sample	99	107
LCSD 880-19128/3-A	Lab Control Sample Dup	94	100
MB 880-19128/1-A	Method Blank	63 S1-	75
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (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	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-19055/2-A	Lab Control Sample	95	106
LCSD 880-19055/3-A	Lab Control Sample Dup	106	114
MB 880-19055/1-A	Method Blank	78	82
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-18969/5-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18969

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/22 08:36	02/11/22 06:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/22 08:36	02/11/22 06:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/22 08:36	02/11/22 06:22	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/10/22 08:36	02/11/22 06:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/22 08:36	02/11/22 06:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/10/22 08:36	02/11/22 06:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	02/10/22 08:36	02/11/22 06:22	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/10/22 08:36	02/11/22 06:22	1

Lab Sample ID: MB 880-19034/5-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19034

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/11/22 20:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/11/22 20:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/11/22 20:49	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/10/22 11:07	02/11/22 20:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/22 11:07	02/11/22 20:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/10/22 11:07	02/11/22 20:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	02/10/22 11:07	02/11/22 20:49	1
1,4-Difluorobenzene (Surr)	83		70 - 130	02/10/22 11:07	02/11/22 20:49	1

Lab Sample ID: LCS 880-19034/1-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09037		mg/Kg		90	70 - 130
Toluene	0.100	0.08837		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.08677		mg/Kg		87	70 - 130
m,p-Xylenes	0.200	0.1843		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09916		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-19034/2-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19034

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08945		mg/Kg		89	70 - 130	1	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-19034/2-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19034

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08494		mg/Kg		85	70 - 130	4	35
Ethylbenzene	0.100	0.08443		mg/Kg		84	70 - 130	3	35
m,p-Xylenes	0.200	0.1750		mg/Kg		87	70 - 130	5	35
o-Xylene	0.100	0.09265		mg/Kg		93	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-11151-1 MS

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: S-1 0.5'

Prep Type: Total/NA

Prep Batch: 19034

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U F2 F1	0.101	0.04750	F1	mg/Kg		47	70 - 130
Toluene	<0.00201	U F1	0.101	0.05238	F1	mg/Kg		52	70 - 130
Ethylbenzene	<0.00201	U F2 F1	0.101	0.05893	F1	mg/Kg		59	70 - 130
m,p-Xylenes	<0.00402	U F2 F1	0.201	0.1171	F1	mg/Kg		58	70 - 130
o-Xylene	<0.00201	U F2 F1	0.101	0.06412	F1	mg/Kg		64	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-11151-1 MSD

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: S-1 0.5'

Prep Type: Total/NA

Prep Batch: 19034

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U F2 F1	0.101	0.02609	F2 F1	mg/Kg		26	70 - 130	58	35
Toluene	<0.00201	U F1	0.101	0.04610	F1	mg/Kg		46	70 - 130	13	35
Ethylbenzene	<0.00201	U F2 F1	0.101	0.02913	F2 F1	mg/Kg		29	70 - 130	68	35
m,p-Xylenes	<0.00402	U F2 F1	0.202	0.01712	F2 F1	mg/Kg		8	70 - 130	149	35
o-Xylene	<0.00201	U F2 F1	0.101	0.1538	F1 F2	mg/Kg		152	70 - 130	82	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	354	S1+	70 - 130
1,4-Difluorobenzene (Surr)	869	S1+	70 - 130

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

Lab Sample ID: MB 880-19055/1-A

Matrix: Solid

Analysis Batch: 19245

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19055

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		02/10/22 14:29	02/13/22 10:50	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

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

Lab Sample ID: MB 880-19055/1-A

Matrix: Solid

Analysis Batch: 19245

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19055

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/10/22 14:29	02/13/22 10:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/10/22 14:29	02/13/22 10:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			02/10/22 14:29	02/13/22 10:50	1
o-Terphenyl (Surr)	82		70 - 130			02/10/22 14:29	02/13/22 10:50	1

Lab Sample ID: LCS 880-19055/2-A

Matrix: Solid

Analysis Batch: 19245

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19055

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	968.2		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	939.3		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	95		70 - 130				
o-Terphenyl (Surr)	106		70 - 130				

Lab Sample ID: LCSD 880-19055/3-A

Matrix: Solid

Analysis Batch: 19245

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19055

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1021		mg/Kg		102	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1008		mg/Kg		101	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	106		70 - 130						
o-Terphenyl (Surr)	114		70 - 130						

Lab Sample ID: 880-11152-A-21-C MS

Matrix: Solid

Analysis Batch: 19245

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19055

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	1053		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	883.9		mg/Kg		88	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	63	S1-	70 - 130						
o-Terphenyl (Surr)	63	S1-	70 - 130						

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

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

Lab Sample ID: 880-11152-A-21-D MSD

Matrix: Solid

Analysis Batch: 19245

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19055

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	1045		mg/Kg		102	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	905.8		mg/Kg		91	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	65	S1-	70 - 130								
o-Terphenyl (Surr)	64	S1-	70 - 130								

Lab Sample ID: MB 880-19128/1-A

Matrix: Solid

Analysis Batch: 19227

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19128

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		02/11/22 11:24	02/12/22 20:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/11/22 11:24	02/12/22 20:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/11/22 11:24	02/12/22 20:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	63	S1-	70 - 130			02/11/22 11:24	02/12/22 20:10	1
o-Terphenyl (Surr)	75		70 - 130			02/11/22 11:24	02/12/22 20:10	1

Lab Sample ID: LCS 880-19128/2-A

Matrix: Solid

Analysis Batch: 19227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	917.8		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	989.6		mg/Kg		99	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	99		70 - 130						
o-Terphenyl (Surr)	107		70 - 130						

Lab Sample ID: LCSD 880-19128/3-A

Matrix: Solid

Analysis Batch: 19227

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19128

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	809.7		mg/Kg		81	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	863.2		mg/Kg		86	70 - 130	14	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

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

Lab Sample ID: LCSD 880-19128/3-A

Matrix: Solid

Analysis Batch: 19227

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19128

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	94		70 - 130
o-Terphenyl (Surr)	100		70 - 130

Lab Sample ID: 880-11151-1 MS

Matrix: Solid

Analysis Batch: 19227

Client Sample ID: S-1 0.5'

Prep Type: Total/NA

Prep Batch: 19128

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	867.8		mg/Kg		84	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	886.2		mg/Kg		89	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	63	S1-	70 - 130							
o-Terphenyl (Surr)	63	S1-	70 - 130							

Lab Sample ID: 880-11151-1 MSD

Matrix: Solid

Analysis Batch: 19227

Client Sample ID: S-1 0.5'

Prep Type: Total/NA

Prep Batch: 19128

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	889.9		mg/Kg		86	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	893.6		mg/Kg		90	70 - 130	1	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	63	S1-	70 - 130									
o-Terphenyl (Surr)	62	S1-	70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19062/1-A

Matrix: Solid

Analysis Batch: 19434

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			02/15/22 14:53	1		

Lab Sample ID: LCS 880-19062/2-A

Matrix: Solid

Analysis Batch: 19434

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	225.9		mg/Kg		90	90 - 110		

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-19062/3-A

Matrix: Solid

Analysis Batch: 19434

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	251.0		mg/Kg		100	90 - 110	11	20

Lab Sample ID: 880-11151-1 MS

Matrix: Solid

Analysis Batch: 19434

Client Sample ID: S-1 0.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	55.6	F1	248	317.6		mg/Kg		106	90 - 110		

Lab Sample ID: 880-11151-1 MSD

Matrix: Solid

Analysis Batch: 19434

Client Sample ID: S-1 0.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	55.6	F1	248	275.6	F1	mg/Kg		89	90 - 110	14	20

Lab Sample ID: MB 880-19066/1-A

Matrix: Solid

Analysis Batch: 19472

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			02/15/22 22:41	1

Lab Sample ID: LCS 880-19066/2-A

Matrix: Solid

Analysis Batch: 19472

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	244.6		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-19066/3-A

Matrix: Solid

Analysis Batch: 19472

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	245.1		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-11151-11 MS

Matrix: Solid

Analysis Batch: 19472

Client Sample ID: S-6 0.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.29		251	279.2		mg/Kg		108	90 - 110		

Lab Sample ID: 880-11151-11 MSD

Matrix: Solid

Analysis Batch: 19472

Client Sample ID: S-6 0.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.29		251	274.6		mg/Kg		106	90 - 110	2	20

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

GC VOA

Prep Batch: 18969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-18969/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 19027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-1	S-1 0.5'	Total/NA	Solid	8021B	19034
880-11151-2	S-1 1'	Total/NA	Solid	8021B	19034
880-11151-3	S-2 0.5'	Total/NA	Solid	8021B	19034
880-11151-4	S-2 1'	Total/NA	Solid	8021B	19034
880-11151-5	S-3 0.5'	Total/NA	Solid	8021B	19034
880-11151-6	S-3 1'	Total/NA	Solid	8021B	19034
880-11151-7	S-4 0.5'	Total/NA	Solid	8021B	19034
880-11151-8	S-4 1'	Total/NA	Solid	8021B	19034
880-11151-9	S-5 0.5'	Total/NA	Solid	8021B	19034
880-11151-10	S-5 1'	Total/NA	Solid	8021B	19034
880-11151-11	S-6 0.5'	Total/NA	Solid	8021B	19034
880-11151-12	S-6 1'	Total/NA	Solid	8021B	19034
880-11151-13	S-7 0.5'	Total/NA	Solid	8021B	19034
880-11151-14	S-7 1'	Total/NA	Solid	8021B	19034
880-11151-15	S-8 0.5'	Total/NA	Solid	8021B	19034
880-11151-16	S-9 0.5'	Total/NA	Solid	8021B	19034
880-11151-17	S-10 0.5'	Total/NA	Solid	8021B	19034
880-11151-18	S-11 0.5'	Total/NA	Solid	8021B	19034
MB 880-18969/5-A	Method Blank	Total/NA	Solid	8021B	18969
MB 880-19034/5-A	Method Blank	Total/NA	Solid	8021B	19034
LCS 880-19034/1-A	Lab Control Sample	Total/NA	Solid	8021B	19034
LCSD 880-19034/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19034
880-11151-1 MS	S-1 0.5'	Total/NA	Solid	8021B	19034
880-11151-1 MSD	S-1 0.5'	Total/NA	Solid	8021B	19034

Prep Batch: 19034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-1	S-1 0.5'	Total/NA	Solid	5035	
880-11151-2	S-1 1'	Total/NA	Solid	5035	
880-11151-3	S-2 0.5'	Total/NA	Solid	5035	
880-11151-4	S-2 1'	Total/NA	Solid	5035	
880-11151-5	S-3 0.5'	Total/NA	Solid	5035	
880-11151-6	S-3 1'	Total/NA	Solid	5035	
880-11151-7	S-4 0.5'	Total/NA	Solid	5035	
880-11151-8	S-4 1'	Total/NA	Solid	5035	
880-11151-9	S-5 0.5'	Total/NA	Solid	5035	
880-11151-10	S-5 1'	Total/NA	Solid	5035	
880-11151-11	S-6 0.5'	Total/NA	Solid	5035	
880-11151-12	S-6 1'	Total/NA	Solid	5035	
880-11151-13	S-7 0.5'	Total/NA	Solid	5035	
880-11151-14	S-7 1'	Total/NA	Solid	5035	
880-11151-15	S-8 0.5'	Total/NA	Solid	5035	
880-11151-16	S-9 0.5'	Total/NA	Solid	5035	
880-11151-17	S-10 0.5'	Total/NA	Solid	5035	
880-11151-18	S-11 0.5'	Total/NA	Solid	5035	
MB 880-19034/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19034/1-A	Lab Control Sample	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

GC VOA (Continued)

Prep Batch: 19034 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-19034/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11151-1 MS	S-1 0.5'	Total/NA	Solid	5035	
880-11151-1 MSD	S-1 0.5'	Total/NA	Solid	5035	

Analysis Batch: 19290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-1	S-1 0.5'	Total/NA	Solid	Total BTEX	
880-11151-2	S-1 1'	Total/NA	Solid	Total BTEX	
880-11151-3	S-2 0.5'	Total/NA	Solid	Total BTEX	
880-11151-4	S-2 1'	Total/NA	Solid	Total BTEX	
880-11151-5	S-3 0.5'	Total/NA	Solid	Total BTEX	
880-11151-6	S-3 1'	Total/NA	Solid	Total BTEX	
880-11151-7	S-4 0.5'	Total/NA	Solid	Total BTEX	
880-11151-8	S-4 1'	Total/NA	Solid	Total BTEX	
880-11151-9	S-5 0.5'	Total/NA	Solid	Total BTEX	
880-11151-10	S-5 1'	Total/NA	Solid	Total BTEX	
880-11151-11	S-6 0.5'	Total/NA	Solid	Total BTEX	
880-11151-12	S-6 1'	Total/NA	Solid	Total BTEX	
880-11151-13	S-7 0.5'	Total/NA	Solid	Total BTEX	
880-11151-14	S-7 1'	Total/NA	Solid	Total BTEX	
880-11151-15	S-8 0.5'	Total/NA	Solid	Total BTEX	
880-11151-16	S-9 0.5'	Total/NA	Solid	Total BTEX	
880-11151-17	S-10 0.5'	Total/NA	Solid	Total BTEX	
880-11151-18	S-11 0.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 19055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-12	S-6 1'	Total/NA	Solid	8015NM Prep	
880-11151-13	S-7 0.5'	Total/NA	Solid	8015NM Prep	
880-11151-14	S-7 1'	Total/NA	Solid	8015NM Prep	
880-11151-15	S-8 0.5'	Total/NA	Solid	8015NM Prep	
880-11151-16	S-9 0.5'	Total/NA	Solid	8015NM Prep	
880-11151-17	S-10 0.5'	Total/NA	Solid	8015NM Prep	
880-11151-18	S-11 0.5'	Total/NA	Solid	8015NM Prep	
MB 880-19055/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19055/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19055/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11152-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-11152-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 19128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-1	S-1 0.5'	Total/NA	Solid	8015NM Prep	
880-11151-2	S-1 1'	Total/NA	Solid	8015NM Prep	
880-11151-3	S-2 0.5'	Total/NA	Solid	8015NM Prep	
880-11151-4	S-2 1'	Total/NA	Solid	8015NM Prep	
880-11151-5	S-3 0.5'	Total/NA	Solid	8015NM Prep	
880-11151-6	S-3 1'	Total/NA	Solid	8015NM Prep	
880-11151-7	S-4 0.5'	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

GC Semi VOA (Continued)

Prep Batch: 19128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-8	S-4 1'	Total/NA	Solid	8015NM Prep	
880-11151-9	S-5 0.5'	Total/NA	Solid	8015NM Prep	
880-11151-10	S-5 1'	Total/NA	Solid	8015NM Prep	
880-11151-11	S-6 0.5'	Total/NA	Solid	8015NM Prep	
MB 880-19128/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19128/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19128/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11151-1 MS	S-1 0.5'	Total/NA	Solid	8015NM Prep	
880-11151-1 MSD	S-1 0.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 19227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-1	S-1 0.5'	Total/NA	Solid	8015B NM	19128
880-11151-2	S-1 1'	Total/NA	Solid	8015B NM	19128
880-11151-3	S-2 0.5'	Total/NA	Solid	8015B NM	19128
880-11151-4	S-2 1'	Total/NA	Solid	8015B NM	19128
880-11151-5	S-3 0.5'	Total/NA	Solid	8015B NM	19128
880-11151-6	S-3 1'	Total/NA	Solid	8015B NM	19128
880-11151-7	S-4 0.5'	Total/NA	Solid	8015B NM	19128
880-11151-8	S-4 1'	Total/NA	Solid	8015B NM	19128
880-11151-9	S-5 0.5'	Total/NA	Solid	8015B NM	19128
880-11151-10	S-5 1'	Total/NA	Solid	8015B NM	19128
880-11151-11	S-6 0.5'	Total/NA	Solid	8015B NM	19128
MB 880-19128/1-A	Method Blank	Total/NA	Solid	8015B NM	19128
LCS 880-19128/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19128
LCSD 880-19128/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19128
880-11151-1 MS	S-1 0.5'	Total/NA	Solid	8015B NM	19128
880-11151-1 MSD	S-1 0.5'	Total/NA	Solid	8015B NM	19128

Analysis Batch: 19245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-12	S-6 1'	Total/NA	Solid	8015B NM	19055
880-11151-13	S-7 0.5'	Total/NA	Solid	8015B NM	19055
880-11151-14	S-7 1'	Total/NA	Solid	8015B NM	19055
880-11151-15	S-8 0.5'	Total/NA	Solid	8015B NM	19055
880-11151-16	S-9 0.5'	Total/NA	Solid	8015B NM	19055
880-11151-17	S-10 0.5'	Total/NA	Solid	8015B NM	19055
880-11151-18	S-11 0.5'	Total/NA	Solid	8015B NM	19055
MB 880-19055/1-A	Method Blank	Total/NA	Solid	8015B NM	19055
LCS 880-19055/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19055
LCSD 880-19055/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19055
880-11152-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	19055
880-11152-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	19055

Analysis Batch: 19505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-12	S-6 1'	Total/NA	Solid	8015 NM	
880-11151-13	S-7 0.5'	Total/NA	Solid	8015 NM	
880-11151-14	S-7 1'	Total/NA	Solid	8015 NM	
880-11151-15	S-8 0.5'	Total/NA	Solid	8015 NM	
880-11151-16	S-9 0.5'	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

GC Semi VOA (Continued)

Analysis Batch: 19505 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-17	S-10 0.5'	Total/NA	Solid	8015 NM	
880-11151-18	S-11 0.5'	Total/NA	Solid	8015 NM	

Analysis Batch: 19741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-1	S-1 0.5'	Total/NA	Solid	8015 NM	
880-11151-2	S-1 1'	Total/NA	Solid	8015 NM	
880-11151-3	S-2 0.5'	Total/NA	Solid	8015 NM	
880-11151-4	S-2 1'	Total/NA	Solid	8015 NM	
880-11151-5	S-3 0.5'	Total/NA	Solid	8015 NM	
880-11151-6	S-3 1'	Total/NA	Solid	8015 NM	
880-11151-7	S-4 0.5'	Total/NA	Solid	8015 NM	
880-11151-8	S-4 1'	Total/NA	Solid	8015 NM	
880-11151-9	S-5 0.5'	Total/NA	Solid	8015 NM	
880-11151-10	S-5 1'	Total/NA	Solid	8015 NM	
880-11151-11	S-6 0.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 19062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-1	S-1 0.5'	Soluble	Solid	DI Leach	
880-11151-2	S-1 1'	Soluble	Solid	DI Leach	
880-11151-3	S-2 0.5'	Soluble	Solid	DI Leach	
880-11151-4	S-2 1'	Soluble	Solid	DI Leach	
880-11151-5	S-3 0.5'	Soluble	Solid	DI Leach	
880-11151-6	S-3 1'	Soluble	Solid	DI Leach	
880-11151-7	S-4 0.5'	Soluble	Solid	DI Leach	
880-11151-8	S-4 1'	Soluble	Solid	DI Leach	
880-11151-9	S-5 0.5'	Soluble	Solid	DI Leach	
880-11151-10	S-5 1'	Soluble	Solid	DI Leach	
MB 880-19062/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19062/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19062/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11151-1 MS	S-1 0.5'	Soluble	Solid	DI Leach	
880-11151-1 MSD	S-1 0.5'	Soluble	Solid	DI Leach	

Leach Batch: 19066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-11	S-6 0.5'	Soluble	Solid	DI Leach	
880-11151-12	S-6 1'	Soluble	Solid	DI Leach	
880-11151-13	S-7 0.5'	Soluble	Solid	DI Leach	
880-11151-14	S-7 1'	Soluble	Solid	DI Leach	
880-11151-15	S-8 0.5'	Soluble	Solid	DI Leach	
880-11151-16	S-9 0.5'	Soluble	Solid	DI Leach	
880-11151-17	S-10 0.5'	Soluble	Solid	DI Leach	
880-11151-18	S-11 0.5'	Soluble	Solid	DI Leach	
MB 880-19066/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19066/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19066/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11151-11 MS	S-6 0.5'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

HPLC/IC (Continued)

Leach Batch: 19066 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-11 MSD	S-6 0.5'	Soluble	Solid	DI Leach	

Analysis Batch: 19434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-1	S-1 0.5'	Soluble	Solid	300.0	19062
880-11151-2	S-1 1'	Soluble	Solid	300.0	19062
880-11151-3	S-2 0.5'	Soluble	Solid	300.0	19062
880-11151-4	S-2 1'	Soluble	Solid	300.0	19062
880-11151-5	S-3 0.5'	Soluble	Solid	300.0	19062
880-11151-6	S-3 1'	Soluble	Solid	300.0	19062
880-11151-7	S-4 0.5'	Soluble	Solid	300.0	19062
880-11151-8	S-4 1'	Soluble	Solid	300.0	19062
880-11151-9	S-5 0.5'	Soluble	Solid	300.0	19062
880-11151-10	S-5 1'	Soluble	Solid	300.0	19062
MB 880-19062/1-A	Method Blank	Soluble	Solid	300.0	19062
LCS 880-19062/2-A	Lab Control Sample	Soluble	Solid	300.0	19062
LCSD 880-19062/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19062
880-11151-1 MS	S-1 0.5'	Soluble	Solid	300.0	19062
880-11151-1 MSD	S-1 0.5'	Soluble	Solid	300.0	19062

Analysis Batch: 19472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11151-11	S-6 0.5'	Soluble	Solid	300.0	19066
880-11151-12	S-6 1'	Soluble	Solid	300.0	19066
880-11151-13	S-7 0.5'	Soluble	Solid	300.0	19066
880-11151-14	S-7 1'	Soluble	Solid	300.0	19066
880-11151-15	S-8 0.5'	Soluble	Solid	300.0	19066
880-11151-16	S-9 0.5'	Soluble	Solid	300.0	19066
880-11151-17	S-10 0.5'	Soluble	Solid	300.0	19066
880-11151-18	S-11 0.5'	Soluble	Solid	300.0	19066
MB 880-19066/1-A	Method Blank	Soluble	Solid	300.0	19066
LCS 880-19066/2-A	Lab Control Sample	Soluble	Solid	300.0	19066
LCSD 880-19066/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19066
880-11151-11 MS	S-6 0.5'	Soluble	Solid	300.0	19066
880-11151-11 MSD	S-6 0.5'	Soluble	Solid	300.0	19066

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-1 0.5'

Lab Sample ID: 880-11151-1

Date Collected: 02/09/22 11:20

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 21:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:57	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/12/22 21:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19062	02/10/22 15:31	CH	XEN MID
Soluble	Analysis	300.0		1			19434	02/15/22 16:38	CH	XEN MID

Client Sample ID: S-1 1'

Lab Sample ID: 880-11151-2

Date Collected: 02/09/22 11:22

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 21:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:57	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/12/22 22:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	19062	02/10/22 15:31	CH	XEN MID
Soluble	Analysis	300.0		1			19434	02/15/22 16:56	CH	XEN MID

Client Sample ID: S-2 0.5'

Lab Sample ID: 880-11151-3

Date Collected: 02/09/22 11:24

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 22:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:57	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/12/22 22:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19062	02/10/22 15:31	CH	XEN MID
Soluble	Analysis	300.0		1			19434	02/15/22 17:02	CH	XEN MID

Client Sample ID: S-2 1'

Lab Sample ID: 880-11151-4

Date Collected: 02/09/22 11:26

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 22:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:57	MR	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-2 1'

Lab Sample ID: 880-11151-4

Date Collected: 02/09/22 11:26

Matrix: Solid

Date Received: 02/10/22 09:00

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			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/12/22 23:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19062	02/10/22 15:31	CH	XEN MID
Soluble	Analysis	300.0		1			19434	02/15/22 17:21	CH	XEN MID

Client Sample ID: S-3 0.5'

Lab Sample ID: 880-11151-5

Date Collected: 02/09/22 11:28

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 23:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:57	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/12/22 23:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19062	02/10/22 15:31	CH	XEN MID
Soluble	Analysis	300.0		1			19434	02/15/22 17:27	CH	XEN MID

Client Sample ID: S-3 1'

Lab Sample ID: 880-11151-6

Date Collected: 02/09/22 11:30

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 23:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:57	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/12/22 23:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19062	02/10/22 15:31	CH	XEN MID
Soluble	Analysis	300.0		5			19434	02/15/22 17:33	CH	XEN MID

Client Sample ID: S-4 0.5'

Lab Sample ID: 880-11151-7

Date Collected: 02/09/22 11:32

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 23:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:57	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/13/22 00:09	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-4 0.5'

Lab Sample ID: 880-11151-7

Date Collected: 02/09/22 11:32

Matrix: Solid

Date Received: 02/10/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	19062	02/10/22 15:31	CH	XEN MID
Soluble	Analysis	300.0		1			19434	02/15/22 17:39	CH	XEN MID

Client Sample ID: S-4 1'

Lab Sample ID: 880-11151-8

Date Collected: 02/09/22 11:34

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/12/22 00:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:57	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/13/22 00:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19062	02/10/22 15:31	CH	XEN MID
Soluble	Analysis	300.0		1			19434	02/15/22 17:45	CH	XEN MID

Client Sample ID: S-5 0.5'

Lab Sample ID: 880-11151-9

Date Collected: 02/09/22 11:36

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/12/22 00:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:57	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/13/22 00:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	19062	02/10/22 15:31	CH	XEN MID
Soluble	Analysis	300.0		5			19434	02/15/22 17:51	CH	XEN MID

Client Sample ID: S-5 1'

Lab Sample ID: 880-11151-10

Date Collected: 02/09/22 11:38

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/12/22 01:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:57	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/13/22 01:09	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19062	02/10/22 15:31	CH	XEN MID
Soluble	Analysis	300.0		1			19434	02/15/22 17:57	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-6 0.5'

Lab Sample ID: 880-11151-11

Date Collected: 02/09/22 11:40

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/12/22 03:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:57	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/13/22 01:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	19066	02/10/22 15:40	CH	XEN MID
Soluble	Analysis	300.0		1			19472	02/15/22 23:07	CH	XEN MID

Client Sample ID: S-6 1'

Lab Sample ID: 880-11151-12

Date Collected: 02/09/22 11:42

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/12/22 03:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:57	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19505	02/15/22 13:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19055	02/10/22 14:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19245	02/13/22 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19066	02/10/22 15:40	CH	XEN MID
Soluble	Analysis	300.0		1			19472	02/15/22 23:34	CH	XEN MID

Client Sample ID: S-7 0.5'

Lab Sample ID: 880-11151-13

Date Collected: 02/09/22 11:44

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/12/22 04:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:59	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19505	02/15/22 13:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19055	02/10/22 14:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19245	02/13/22 17:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19066	02/10/22 15:40	CH	XEN MID
Soluble	Analysis	300.0		1			19472	02/15/22 23:43	CH	XEN MID

Client Sample ID: S-7 1'

Lab Sample ID: 880-11151-14

Date Collected: 02/09/22 11:46

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/12/22 04:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:59	MR	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-7 1'

Lab Sample ID: 880-11151-14

Date Collected: 02/09/22 11:46

Matrix: Solid

Date Received: 02/10/22 09:00

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			19505	02/15/22 13:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19055	02/10/22 14:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19245	02/13/22 18:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	19066	02/10/22 15:40	CH	XEN MID
Soluble	Analysis	300.0		1			19472	02/15/22 23:52	CH	XEN MID

Client Sample ID: S-8 0.5'

Lab Sample ID: 880-11151-15

Date Collected: 02/09/22 11:48

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/12/22 04:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:59	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19505	02/15/22 13:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19055	02/10/22 14:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19245	02/13/22 18:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19066	02/10/22 15:40	CH	XEN MID
Soluble	Analysis	300.0		1			19472	02/16/22 00:00	CH	XEN MID

Client Sample ID: S-9 0.5'

Lab Sample ID: 880-11151-16

Date Collected: 02/09/22 11:52

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/12/22 05:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:59	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19505	02/15/22 13:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	19055	02/10/22 14:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19245	02/13/22 18:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19066	02/10/22 15:40	CH	XEN MID
Soluble	Analysis	300.0		1			19472	02/16/22 00:27	CH	XEN MID

Client Sample ID: S-10 0.5'

Lab Sample ID: 880-11151-17

Date Collected: 02/09/22 11:56

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/12/22 05:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:59	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19505	02/15/22 13:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19055	02/10/22 14:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19245	02/13/22 19:09	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Client Sample ID: S-10 0.5'

Lab Sample ID: 880-11151-17

Date Collected: 02/09/22 11:56

Matrix: Solid

Date Received: 02/10/22 09:00

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	19066	02/10/22 15:40	CH	XEN MID
Soluble	Analysis	300.0		1			19472	02/16/22 00:36	CH	XEN MID

Client Sample ID: S-11 0.5'

Lab Sample ID: 880-11151-18

Date Collected: 02/09/22 11:58

Matrix: Solid

Date Received: 02/10/22 09:00

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	19034	02/10/22 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/12/22 06:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:59	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19505	02/15/22 13:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19055	02/10/22 14:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19245	02/13/22 19:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19066	02/10/22 15:40	CH	XEN MID
Soluble	Analysis	300.0		1			19472	02/16/22 00:45	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: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

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: Cotton Draw TB

Job ID: 880-11151-1
SDG: 22-0105-05

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-11151-1	S-1 0.5'	Solid	02/09/22 11:20	02/10/22 09:00
880-11151-2	S-1 1'	Solid	02/09/22 11:22	02/10/22 09:00
880-11151-3	S-2 0.5'	Solid	02/09/22 11:24	02/10/22 09:00
880-11151-4	S-2 1'	Solid	02/09/22 11:26	02/10/22 09:00
880-11151-5	S-3 0.5'	Solid	02/09/22 11:28	02/10/22 09:00
880-11151-6	S-3 1'	Solid	02/09/22 11:30	02/10/22 09:00
880-11151-7	S-4 0.5'	Solid	02/09/22 11:32	02/10/22 09:00
880-11151-8	S-4 1'	Solid	02/09/22 11:34	02/10/22 09:00
880-11151-9	S-5 0.5'	Solid	02/09/22 11:36	02/10/22 09:00
880-11151-10	S-5 1'	Solid	02/09/22 11:38	02/10/22 09:00
880-11151-11	S-6 0.5'	Solid	02/09/22 11:40	02/10/22 09:00
880-11151-12	S-6 1'	Solid	02/09/22 11:42	02/10/22 09:00
880-11151-13	S-7 0.5'	Solid	02/09/22 11:44	02/10/22 09:00
880-11151-14	S-7 1'	Solid	02/09/22 11:46	02/10/22 09:00
880-11151-15	S-8 0.5'	Solid	02/09/22 11:48	02/10/22 09:00
880-11151-16	S-9 0.5'	Solid	02/09/22 11:52	02/10/22 09:00
880-11151-17	S-10 0.5'	Solid	02/09/22 11:56	02/10/22 09:00
880-11151-18	S-11 0.5'	Solid	02/09/22 11:58	02/10/22 09:00

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CHAIN-OF-CUSTODY

No. 2268

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-11151-1

SDG Number: 22-0105-05

Login Number: 11151

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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-11203-1
Laboratory Sample Delivery Group: 22-0105-05
Client Project/Site: Cotton Draw TB
Revision: 2

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

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
2/25/2022 2:39:59 PM

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

LINKS

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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.

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Laboratory Job ID: 880-11203-1
SDG: 22-0105-05

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

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
*1	LCS/LCSD RPD exceeds control limits.
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.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
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.
α	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

Eurofins Midland

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Job ID: 880-11203-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-11203-1**

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 2/14/2022. The report (revision 2) is being revised to correct Total BTEX on sample 6 per client..

Report revision history

Revision 1 - 2/23/2022 - Reason - The report was revised to correct Total BTEX on sample 6 per client..

Receipt

The samples were received on 2/11/2022 3:39 PM. 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 2.3° C.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-1 11' (880-11203-4), C-2 8' (880-11203-5), C-2 10' (880-11203-7) and C-2 11' (880-11203-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: CCV was biased low for benzene and toluene. Appears to be a mis-injection rather than incorrect data however batch will be reanalyzed for confirmation.

(CCV 880-19116/130)

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-6 3' (880-11203-12) and C-7 2' (880-11203-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-2 8' (880-11203-5), C-5 5' (880-11203-11), C-8 2' (880-11203-14), C-9 2' (880-11203-15), C-10 4.1'-8' (880-11203-16), C-11 4.1'-8' (880-11203-17), C-12 0-4.1' (880-11203-18), C-13 0-4.1' (880-11203-19), (CCV 880-20021/33), (LCS 880-20070/1-A), (LCSD 880-20070/2-A), (880-11473-A-8-G), (880-11473-A-8-E MS) and (880-11473-A-8-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-19197 and analytical batch 880-19282 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28)

Method 8015B NM: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-19197 and analytical batch 880-19282 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: C-2 8' (880-11203-5), C-2 9' (880-11203-6), C-2 10' (880-11203-7), C-4 6' (880-11203-10) and (MB 880-19197/1-A). 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

Method 300.0: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 880-19201 and 880-19201 and analytical batch 880-19351 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Chloride in the MS/MSD was above the instrument calibration range. The data have been reported

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Job ID: 880-11203-1 (Continued)

Laboratory: Eurofins Midland (Continued)

and qualified.

C-4 6' (880-11203-10), C-5 5' (880-11203-11), C-6 3' (880-11203-12), C-7 2' (880-11203-13), C-8 2' (880-11203-14), C-9 2' (880-11203-15), C-10 4.1'-8' (880-11203-16), C-11 4.1'-8' (880-11203-17), C-12 0-4.1' (880-11203-18), C-13 0-4.1' (880-11203-19), (880-11203-A-10-C MS) and (880-11203-A-10-D MSD)

Method 300.0: The matrix spike duplicate (MSD) recoveries for preparation batch 880-19201 and 880-19201 and analytical batch 880-19351 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The associated samples are: C-4 6' (880-11203-10), C-5 5' (880-11203-11), C-6 3' (880-11203-12), C-7 2' (880-11203-13), C-8 2' (880-11203-14), C-9 2' (880-11203-15), C-10 4.1'-8' (880-11203-16), C-11 4.1'-8' (880-11203-17), C-12 0-4.1' (880-11203-18), C-13 0-4.1' (880-11203-19) and (880-11203-A-10-D MSD).

No additional analytical or quality issues were noted, other than those described above or 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: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-1 8'

Lab Sample ID: 880-11203-1

Date Collected: 02/11/22 10:18

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/12/22 09:37	02/12/22 20:25	1
Toluene	0.0274	F1 F2	0.00199	mg/Kg		02/12/22 09:37	02/12/22 20:25	1
Ethylbenzene	0.0237	F1 F2	0.00199	mg/Kg		02/12/22 09:37	02/12/22 20:25	1
m,p-Xylenes	0.137	F1 F2	0.00398	mg/Kg		02/12/22 09:37	02/12/22 20:25	1
o-Xylene	0.0447	F1 F2	0.00199	mg/Kg		02/12/22 09:37	02/12/22 20:25	1
Xylenes, Total	0.182	F1 F2	0.00398	mg/Kg		02/12/22 09:37	02/12/22 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	02/12/22 09:37	02/12/22 20:25	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/12/22 09:37	02/12/22 20:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.233		0.00398	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	338		50.0	mg/Kg			02/13/22 18:52	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	81.3	F1 F2	50.0	mg/Kg		02/11/22 16:01	02/12/22 21:43	1
Diesel Range Organics (Over C10-C28)	257	*1 F1 F2	50.0	mg/Kg		02/11/22 16:01	02/12/22 21:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/11/22 16:01	02/12/22 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130	02/11/22 16:01	02/12/22 21:43	1
o-Terphenyl (Surr)	87		70 - 130	02/11/22 16:01	02/12/22 21:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4310		25.0	mg/Kg			02/12/22 17:30	5

Client Sample ID: C-1 9'

Lab Sample ID: 880-11203-2

Date Collected: 02/11/22 10:21

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0914		0.00202	mg/Kg		02/12/22 09:37	02/12/22 20:45	1
Toluene	<0.200	U	0.200	mg/Kg		02/14/22 07:30	02/14/22 11:47	100
Ethylbenzene	<0.200	U	0.200	mg/Kg		02/14/22 07:30	02/14/22 11:47	100
m,p-Xylenes	0.407		0.399	mg/Kg		02/14/22 07:30	02/14/22 11:47	100
o-Xylene	0.0224		0.00202	mg/Kg		02/12/22 09:37	02/12/22 20:45	1
Xylenes, Total	0.407		0.399	mg/Kg		02/14/22 07:30	02/14/22 11:47	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	324	S1+	70 - 130	02/12/22 09:37	02/12/22 20:45	1
1,4-Difluorobenzene (Surr)	102		70 - 130	02/12/22 09:37	02/12/22 20:45	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-1 9'

Lab Sample ID: 880-11203-2

Date Collected: 02/11/22 10:21

Matrix: Solid

Date Received: 02/11/22 15:39

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.521		0.399	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1690		49.9	mg/Kg			02/13/22 18:52	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	811		49.9	mg/Kg		02/11/22 16:01	02/12/22 22:46	1
Diesel Range Organics (Over C10-C28)	882	*1	49.9	mg/Kg		02/11/22 16:01	02/12/22 22:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/11/22 16:01	02/12/22 22:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	74		70 - 130			02/11/22 16:01	02/12/22 22:46	1
o-Terphenyl (Surr)	77		70 - 130			02/11/22 16:01	02/12/22 22:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8950		49.9	mg/Kg			02/12/22 17:40	10

Client Sample ID: C-110'

Lab Sample ID: 880-11203-3

Date Collected: 02/11/22 10:24

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0182		0.00200	mg/Kg		02/12/22 09:37	02/12/22 21:06	1
Toluene	0.256		0.198	mg/Kg		02/14/22 07:30	02/14/22 12:08	100
Ethylbenzene	0.389		0.00200	mg/Kg		02/12/22 09:37	02/12/22 21:06	1
m,p-Xylenes	3.46		0.397	mg/Kg		02/14/22 07:30	02/14/22 12:08	100
o-Xylene	1.02		0.198	mg/Kg		02/14/22 07:30	02/14/22 12:08	100
Xylenes, Total	4.48		0.397	mg/Kg		02/14/22 07:30	02/14/22 12:08	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	204	S1+	70 - 130			02/12/22 09:37	02/12/22 21:06	1
1,4-Difluorobenzene (Surr)	110		70 - 130			02/12/22 09:37	02/12/22 21:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	5.14		0.397	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1140		50.0	mg/Kg			02/13/22 18:52	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	368		50.0	mg/Kg		02/11/22 16:01	02/12/22 23:07	1
Diesel Range Organics (Over C10-C28)	771	*1	50.0	mg/Kg		02/11/22 16:01	02/12/22 23:07	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-110'

Lab Sample ID: 880-11203-3

Date Collected: 02/11/22 10:24

Matrix: Solid

Date Received: 02/11/22 15:39

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		02/11/22 16:01	02/12/22 23:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			02/11/22 16:01	02/12/22 23:07	1
o-Terphenyl (Surr)	96		70 - 130			02/11/22 16:01	02/12/22 23:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8020		49.8	mg/Kg			02/12/22 17:49	10

Client Sample ID: C-1 11'

Lab Sample ID: 880-11203-4

Date Collected: 02/11/22 10:26

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.896		0.198	mg/Kg		02/14/22 07:30	02/14/22 12:28	100
Toluene	19.8		0.198	mg/Kg		02/14/22 07:30	02/14/22 12:28	100
Ethylbenzene	6.35		0.198	mg/Kg		02/14/22 07:30	02/14/22 12:28	100
m,p-Xylenes	36.8		0.397	mg/Kg		02/14/22 07:30	02/14/22 12:28	100
o-Xylene	10.1		0.198	mg/Kg		02/14/22 07:30	02/14/22 12:28	100
Xylenes, Total	46.9		0.397	mg/Kg		02/14/22 07:30	02/14/22 12:28	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130			02/14/22 07:30	02/14/22 12:28	100
1,4-Difluorobenzene (Surr)	105		70 - 130			02/14/22 07:30	02/14/22 12:28	100

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	73.9		0.397	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6250		49.9	mg/Kg			02/13/22 18:52	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	2930		49.9	mg/Kg		02/11/22 16:01	02/12/22 23:29	1
Diesel Range Organics (Over C10-C28)	3320	*1	49.9	mg/Kg		02/11/22 16:01	02/12/22 23:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/11/22 16:01	02/12/22 23:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130			02/11/22 16:01	02/12/22 23:29	1
o-Terphenyl (Surr)	85		70 - 130			02/11/22 16:01	02/12/22 23:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10700		49.6	mg/Kg			02/12/22 17:59	10

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-2 8'

Lab Sample ID: 880-11203-5

Date Collected: 02/11/22 10:29

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.67		0.199	mg/Kg		02/14/22 07:30	02/14/22 12:48	100
Toluene	20.7		0.398	mg/Kg		02/22/22 08:49	02/22/22 22:43	200
Ethylbenzene	6.92		0.398	mg/Kg		02/22/22 08:49	02/22/22 22:43	200
m,p-Xylenes	78.5		0.398	mg/Kg		02/14/22 07:30	02/14/22 12:48	100
o-Xylene	22.9		0.199	mg/Kg		02/14/22 07:30	02/14/22 12:48	100
Xylenes, Total	101		0.398	mg/Kg		02/14/22 07:30	02/14/22 12:48	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	02/14/22 07:30	02/14/22 12:48	100
1,4-Difluorobenzene (Surr)	72		70 - 130	02/22/22 08:49	02/22/22 22:43	200

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	136		0.398	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	9350		49.9	mg/Kg			02/13/22 18:52	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	4600		49.9	mg/Kg		02/11/22 16:01	02/12/22 23:56	1
Diesel Range Organics (Over C10-C28)	4750	*1	49.9	mg/Kg		02/11/22 16:01	02/12/22 23:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/11/22 16:01	02/12/22 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	163	S1+	70 - 130	02/11/22 16:01	02/12/22 23:56	1
o-Terphenyl (Surr)	75		70 - 130	02/11/22 16:01	02/12/22 23:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3530		25.2	mg/Kg			02/12/22 18:28	5

Client Sample ID: C-2 9'

Lab Sample ID: 880-11203-6

Date Collected: 02/11/22 10:32

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	10.4		0.200	mg/Kg		02/14/22 07:30	02/14/22 13:09	100
Toluene	37.5		1.00	mg/Kg		02/18/22 08:00	02/19/22 03:30	500
Ethylbenzene	18.4		0.200	mg/Kg		02/14/22 07:30	02/14/22 13:09	100
m,p-Xylenes	64.2		2.00	mg/Kg		02/18/22 08:00	02/19/22 03:30	500
o-Xylene	22.2		1.00	mg/Kg		02/18/22 08:00	02/19/22 03:30	500
Xylenes, Total	86.4		2.00	mg/Kg		02/18/22 08:00	02/19/22 03:30	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	02/14/22 07:30	02/14/22 13:09	100
1,4-Difluorobenzene (Surr)	103		70 - 130	02/14/22 07:30	02/14/22 13:09	100

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-2 9'

Lab Sample ID: 880-11203-6

Date Collected: 02/11/22 10:32

Matrix: Solid

Date Received: 02/11/22 15:39

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	153		2.00	mg/Kg			02/15/22 20:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10400		50.0	mg/Kg			02/13/22 18:52	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	5090		50.0	mg/Kg		02/11/22 16:01	02/13/22 00:26	1
Diesel Range Organics (Over C10-C28)	5300	*1	50.0	mg/Kg		02/11/22 16:01	02/13/22 00:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/11/22 16:01	02/13/22 00:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	184	S1+	70 - 130			02/11/22 16:01	02/13/22 00:26	1
o-Terphenyl (Surr)	78		70 - 130			02/11/22 16:01	02/13/22 00:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6070		49.7	mg/Kg			02/12/22 18:37	10

Client Sample ID: C-2 10'

Lab Sample ID: 880-11203-7

Date Collected: 02/11/22 10:35

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.70		0.198	mg/Kg		02/14/22 07:30	02/14/22 13:29	100
Toluene	33.0		0.198	mg/Kg		02/14/22 07:30	02/14/22 13:29	100
Ethylbenzene	9.74		0.198	mg/Kg		02/14/22 07:30	02/14/22 13:29	100
m,p-Xylenes	56.3		0.396	mg/Kg		02/14/22 07:30	02/14/22 13:29	100
o-Xylene	16.8		0.198	mg/Kg		02/14/22 07:30	02/14/22 13:29	100
Xylenes, Total	73.1		0.396	mg/Kg		02/14/22 07:30	02/14/22 13:29	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	201	S1+	70 - 130			02/14/22 07:30	02/14/22 13:29	100
1,4-Difluorobenzene (Surr)	104		70 - 130			02/14/22 07:30	02/14/22 13:29	100

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	118		0.396	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7820		50.0	mg/Kg			02/13/22 18:52	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	3740		50.0	mg/Kg		02/11/22 16:01	02/13/22 00:56	1
Diesel Range Organics (Over C10-C28)	4080	*1	50.0	mg/Kg		02/11/22 16:01	02/13/22 00:56	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-2 10'

Lab Sample ID: 880-11203-7

Date Collected: 02/11/22 10:35

Matrix: Solid

Date Received: 02/11/22 15:39

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		02/11/22 16:01	02/13/22 00:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	140	S1+	70 - 130			02/11/22 16:01	02/13/22 00:56	1
o-Terphenyl (Surr)	76		70 - 130			02/11/22 16:01	02/13/22 00:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8420		99.0	mg/Kg			02/12/22 18:47	20

Client Sample ID: C-2 11'

Lab Sample ID: 880-11203-8

Date Collected: 02/11/22 10:39

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.74		0.199	mg/Kg		02/14/22 07:30	02/14/22 13:50	100
Toluene	29.6		0.199	mg/Kg		02/14/22 07:30	02/14/22 13:50	100
Ethylbenzene	8.18		0.199	mg/Kg		02/14/22 07:30	02/14/22 13:50	100
m,p-Xylenes	46.1		0.398	mg/Kg		02/14/22 07:30	02/14/22 13:50	100
o-Xylene	13.3		0.199	mg/Kg		02/14/22 07:30	02/14/22 13:50	100
Xylenes, Total	59.4		0.398	mg/Kg		02/14/22 07:30	02/14/22 13:50	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130			02/14/22 07:30	02/14/22 13:50	100
1,4-Difluorobenzene (Surr)	107		70 - 130			02/14/22 07:30	02/14/22 13:50	100

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	98.9		0.398	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5640		49.9	mg/Kg			02/13/22 18:52	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	2570		49.9	mg/Kg		02/11/22 16:01	02/13/22 01:23	1
Diesel Range Organics (Over C10-C28)	3070	*1	49.9	mg/Kg		02/11/22 16:01	02/13/22 01:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/11/22 16:01	02/13/22 01:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			02/11/22 16:01	02/13/22 01:23	1
o-Terphenyl (Surr)	75		70 - 130			02/11/22 16:01	02/13/22 01:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10700		50.1	mg/Kg			02/12/22 18:56	10

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-3 6'

Lab Sample ID: 880-11203-9

Date Collected: 02/11/22 10:49

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0396		0.00199	mg/Kg		02/12/22 09:37	02/12/22 23:09	1
Toluene	0.304		0.00199	mg/Kg		02/12/22 09:37	02/12/22 23:09	1
Ethylbenzene	0.320		0.00199	mg/Kg		02/12/22 09:37	02/12/22 23:09	1
m,p-Xylenes	4.54		0.396	mg/Kg		02/14/22 12:30	02/14/22 14:10	100
o-Xylene	1.23		0.198	mg/Kg		02/14/22 12:30	02/14/22 14:10	100
Xylenes, Total	5.77		0.396	mg/Kg		02/14/22 12:30	02/14/22 14:10	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	320	S1+	70 - 130	02/12/22 09:37	02/12/22 23:09	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130	02/12/22 09:37	02/12/22 23:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	6.43		0.396	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1550		49.9	mg/Kg			02/13/22 18:52	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	202		49.9	mg/Kg		02/11/22 16:01	02/13/22 01:49	1
Diesel Range Organics (Over C10-C28)	1350	*1	49.9	mg/Kg		02/11/22 16:01	02/13/22 01:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/11/22 16:01	02/13/22 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	74		70 - 130	02/11/22 16:01	02/13/22 01:49	1
o-Terphenyl (Surr)	84		70 - 130	02/11/22 16:01	02/13/22 01:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		4.99	mg/Kg			02/12/22 19:06	1

Client Sample ID: C-4 6'

Lab Sample ID: 880-11203-10

Date Collected: 02/11/22 10:50

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00764		0.00200	mg/Kg		02/12/22 09:37	02/12/22 23:29	1
Toluene	0.0970		0.00200	mg/Kg		02/12/22 09:37	02/12/22 23:29	1
Ethylbenzene	0.113		0.00200	mg/Kg		02/12/22 09:37	02/12/22 23:29	1
m,p-Xylenes	0.635		0.00400	mg/Kg		02/12/22 09:37	02/12/22 23:29	1
o-Xylene	0.244		0.00200	mg/Kg		02/12/22 09:37	02/12/22 23:29	1
Xylenes, Total	0.879		0.00400	mg/Kg		02/12/22 09:37	02/12/22 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	02/12/22 09:37	02/12/22 23:29	1
1,4-Difluorobenzene (Surr)	77		70 - 130	02/12/22 09:37	02/12/22 23:29	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-4 6'

Lab Sample ID: 880-11203-10

Date Collected: 02/11/22 10:50

Matrix: Solid

Date Received: 02/11/22 15:39

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.10		0.00400	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	472		50.0	mg/Kg			02/13/22 18:52	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	107		50.0	mg/Kg		02/11/22 16:01	02/13/22 02:10	1
Diesel Range Organics (Over C10-C28)	365	*1	50.0	mg/Kg		02/11/22 16:01	02/13/22 02:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/11/22 16:01	02/13/22 02:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	68	S1-	70 - 130			02/11/22 16:01	02/13/22 02:10	1
o-Terphenyl (Surr)	67	S1-	70 - 130			02/11/22 16:01	02/13/22 02:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1440		5.05	mg/Kg			02/12/22 19:15	1

Client Sample ID: C-5 5'

Lab Sample ID: 880-11203-11

Date Collected: 02/11/22 10:51

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/22/22 15:21	02/23/22 11:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/22/22 15:21	02/23/22 11:30	1
Ethylbenzene	0.0184		0.00200	mg/Kg		02/22/22 15:21	02/23/22 11:30	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/22/22 15:21	02/23/22 11:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/22/22 15:21	02/23/22 11:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/22/22 15:21	02/23/22 11:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	201	S1+	70 - 130			02/22/22 15:21	02/23/22 11:30	1
1,4-Difluorobenzene (Surr)	91		70 - 130			02/22/22 15:21	02/23/22 11:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0184		0.00400	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	119		49.9	mg/Kg			02/13/22 18:52	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		02/11/22 16:01	02/13/22 02:51	1
Diesel Range Organics (Over C10-C28)	119	*1	49.9	mg/Kg		02/11/22 16:01	02/13/22 02:51	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-5 5'

Lab Sample ID: 880-11203-11

Date Collected: 02/11/22 10:51

Matrix: Solid

Date Received: 02/11/22 15:39

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		02/11/22 16:01	02/13/22 02:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			02/11/22 16:01	02/13/22 02:51	1
o-Terphenyl (Surr)	83		70 - 130			02/11/22 16:01	02/13/22 02:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	314		5.03	mg/Kg			02/12/22 19:44	1

Client Sample ID: C-6 3'

Lab Sample ID: 880-11203-12

Date Collected: 02/11/22 10:52

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/22/22 08:49	02/22/22 20:02	1
Toluene	0.00451		0.00199	mg/Kg		02/22/22 08:49	02/22/22 20:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/22/22 08:49	02/22/22 20:02	1
m,p-Xylenes	0.0150		0.00398	mg/Kg		02/22/22 08:49	02/22/22 20:02	1
o-Xylene	0.00495		0.00199	mg/Kg		02/22/22 08:49	02/22/22 20:02	1
Xylenes, Total	0.0200		0.00398	mg/Kg		02/22/22 08:49	02/22/22 20:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130			02/22/22 08:49	02/22/22 20:02	1
1,4-Difluorobenzene (Surr)	75		70 - 130			02/22/22 08:49	02/22/22 20:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0245		0.00398	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	101		50.0	mg/Kg			02/13/22 18:52	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		02/11/22 16:01	02/13/22 03:12	1
Diesel Range Organics (Over C10-C28)	101	*1	50.0	mg/Kg		02/11/22 16:01	02/13/22 03:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/11/22 16:01	02/13/22 03:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	70		70 - 130			02/11/22 16:01	02/13/22 03:12	1
o-Terphenyl (Surr)	64	S1-	70 - 130			02/11/22 16:01	02/13/22 03:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2690		24.9	mg/Kg			02/12/22 19:53	5

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-7 2'

Lab Sample ID: 880-11203-13

Date Collected: 02/11/22 10:53

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/22/22 08:49	02/22/22 20:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/22/22 08:49	02/22/22 20:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/22/22 08:49	02/22/22 20:29	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/22/22 08:49	02/22/22 20:29	1
o-Xylene	0.106		0.00200	mg/Kg		02/22/22 08:49	02/22/22 20:29	1
Xylenes, Total	0.106		0.00399	mg/Kg		02/22/22 08:49	02/22/22 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	186	S1+	70 - 130	02/22/22 08:49	02/22/22 20:29	1
1,4-Difluorobenzene (Surr)	76		70 - 130	02/22/22 08:49	02/22/22 20:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.106		0.00399	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	462		50.0	mg/Kg			02/13/22 18:52	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	57.8		50.0	mg/Kg		02/11/22 16:01	02/13/22 03:32	1
Diesel Range Organics (Over C10-C28)	404	*1	50.0	mg/Kg		02/11/22 16:01	02/13/22 03:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/11/22 16:01	02/13/22 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	70		70 - 130	02/11/22 16:01	02/13/22 03:32	1
o-Terphenyl (Surr)	71		70 - 130	02/11/22 16:01	02/13/22 03:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	360		4.95	mg/Kg			02/12/22 20:22	1

Client Sample ID: C-8 2'

Lab Sample ID: 880-11203-14

Date Collected: 02/11/22 10:54

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/22/22 08:49	02/22/22 20:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/22/22 08:49	02/22/22 20:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/22/22 08:49	02/22/22 20:55	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/22/22 08:49	02/22/22 20:55	1
o-Xylene	0.0129		0.00199	mg/Kg		02/22/22 08:49	02/22/22 20:55	1
Xylenes, Total	0.0129		0.00398	mg/Kg		02/22/22 08:49	02/22/22 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	192	S1+	70 - 130	02/22/22 08:49	02/22/22 20:55	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/22/22 08:49	02/22/22 20:55	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-8 2'

Lab Sample ID: 880-11203-14

Date Collected: 02/11/22 10:54

Matrix: Solid

Date Received: 02/11/22 15:39

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0129		0.00398	mg/Kg			02/14/22 09:43	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			02/13/22 18:52	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		02/11/22 16:01	02/13/22 03:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		02/11/22 16:01	02/13/22 03:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/11/22 16:01	02/13/22 03:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	69	S1-	70 - 130			02/11/22 16:01	02/13/22 03:52	1
o-Terphenyl (Surr)	65	S1-	70 - 130			02/11/22 16:01	02/13/22 03:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.4		4.95	mg/Kg			02/12/22 20:32	1

Client Sample ID: C-9 2'

Lab Sample ID: 880-11203-15

Date Collected: 02/11/22 10:55

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/22/22 08:49	02/22/22 21:23	1
Toluene	0.0144		0.00200	mg/Kg		02/22/22 08:49	02/22/22 21:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/22/22 08:49	02/22/22 21:23	1
m,p-Xylenes	0.00660		0.00399	mg/Kg		02/22/22 08:49	02/22/22 21:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/22/22 08:49	02/22/22 21:23	1
Xylenes, Total	0.00660		0.00399	mg/Kg		02/22/22 08:49	02/22/22 21:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	202	S1+	70 - 130			02/22/22 08:49	02/22/22 21:23	1
1,4-Difluorobenzene (Surr)	81		70 - 130			02/22/22 08:49	02/22/22 21:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0210		0.00399	mg/Kg			02/14/22 09:43	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			02/13/22 18:52	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		02/11/22 16:01	02/13/22 04:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		02/11/22 16:01	02/13/22 04:13	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-9 2'

Lab Sample ID: 880-11203-15

Date Collected: 02/11/22 10:55

Matrix: Solid

Date Received: 02/11/22 15:39

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		02/11/22 16:01	02/13/22 04:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	66	S1-	70 - 130			02/11/22 16:01	02/13/22 04:13	1
o-Terphenyl (Surr)	62	S1-	70 - 130			02/11/22 16:01	02/13/22 04:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4220		25.2	mg/Kg			02/12/22 20:41	5

Client Sample ID: C-10 4.1'-8'

Lab Sample ID: 880-11203-16

Date Collected: 02/11/22 10:56

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.200	U	0.200	mg/Kg		02/14/22 12:30	02/14/22 15:33	100
Toluene	0.164		0.0499	mg/Kg		02/22/22 15:21	02/23/22 12:25	25
Ethylbenzene	2.80		0.200	mg/Kg		02/14/22 12:30	02/14/22 15:33	100
m,p-Xylenes	12.1		0.0998	mg/Kg		02/22/22 15:21	02/23/22 12:25	25
o-Xylene	4.26		0.200	mg/Kg		02/14/22 12:30	02/14/22 15:33	100
Xylenes, Total	19.8		0.400	mg/Kg		02/14/22 12:30	02/14/22 15:33	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	328	S1+	70 - 130			02/22/22 15:21	02/23/22 12:25	25
1,4-Difluorobenzene (Surr)	72		70 - 130			02/22/22 15:21	02/23/22 12:25	25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	19.3		0.200	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2350		49.9	mg/Kg			02/13/22 18:52	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	847		49.9	mg/Kg		02/11/22 16:01	02/13/22 04:33	1
Diesel Range Organics (Over C10-C28)	1500	*1	49.9	mg/Kg		02/11/22 16:01	02/13/22 04:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/11/22 16:01	02/13/22 04:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			02/11/22 16:01	02/13/22 04:33	1
o-Terphenyl (Surr)	71		70 - 130			02/11/22 16:01	02/13/22 04:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3890		25.0	mg/Kg			02/12/22 20:51	5

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-11 4.1'-8'

Lab Sample ID: 880-11203-17

Date Collected: 02/11/22 10:58

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/22/22 08:49	02/22/22 21:50	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/22/22 08:49	02/22/22 21:50	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/22/22 08:49	02/22/22 21:50	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		02/22/22 08:49	02/22/22 21:50	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/22/22 08:49	02/22/22 21:50	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/22/22 08:49	02/22/22 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	189	S1+	70 - 130	02/22/22 08:49	02/22/22 21:50	1
1,4-Difluorobenzene (Surr)	82		70 - 130	02/22/22 08:49	02/22/22 21:50	1

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			02/14/22 09:43	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			02/13/22 18:52	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		02/11/22 16:01	02/13/22 04:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		02/11/22 16:01	02/13/22 04:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/11/22 16:01	02/13/22 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	67	S1-	70 - 130	02/11/22 16:01	02/13/22 04:56	1
o-Terphenyl (Surr)	62	S1-	70 - 130	02/11/22 16:01	02/13/22 04:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	584		50.0	mg/Kg			02/12/22 21:00	10

Client Sample ID: C-12 0-4.1'

Lab Sample ID: 880-11203-18

Date Collected: 02/11/22 11:00

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/22/22 08:49	02/22/22 22:17	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/22/22 08:49	02/22/22 22:17	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/22/22 08:49	02/22/22 22:17	1
m,p-Xylenes	0.0244		0.00398	mg/Kg		02/22/22 08:49	02/22/22 22:17	1
o-Xylene	0.0129		0.00199	mg/Kg		02/22/22 08:49	02/22/22 22:17	1
Xylenes, Total	0.0373		0.00398	mg/Kg		02/22/22 08:49	02/22/22 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	205	S1+	70 - 130	02/22/22 08:49	02/22/22 22:17	1
1,4-Difluorobenzene (Surr)	71		70 - 130	02/22/22 08:49	02/22/22 22:17	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-12 0-4.1'

Lab Sample ID: 880-11203-18

Date Collected: 02/11/22 11:00

Matrix: Solid

Date Received: 02/11/22 15:39

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0373		0.00398	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	775		50.0	mg/Kg			02/13/22 18:52	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	134		50.0	mg/Kg		02/11/22 16:01	02/13/22 05:16	1
Diesel Range Organics (Over C10-C28)	641	*1	50.0	mg/Kg		02/11/22 16:01	02/13/22 05:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/11/22 16:01	02/13/22 05:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	69	S1-	70 - 130			02/11/22 16:01	02/13/22 05:16	1
o-Terphenyl (Surr)	60	S1-	70 - 130			02/11/22 16:01	02/13/22 05:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		4.97	mg/Kg			02/12/22 21:10	1

Client Sample ID: C-13 0-4.1'

Lab Sample ID: 880-11203-19

Date Collected: 02/11/22 11:01

Matrix: Solid

Date Received: 02/11/22 15:39

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/22/22 15:21	02/23/22 11:57	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/22/22 15:21	02/23/22 11:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/22/22 15:21	02/23/22 11:57	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/22/22 15:21	02/23/22 11:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/22/22 15:21	02/23/22 11:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/22/22 15:21	02/23/22 11:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130			02/22/22 15:21	02/23/22 11:57	1
1,4-Difluorobenzene (Surr)	83		70 - 130			02/22/22 15:21	02/23/22 11:57	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			02/14/22 09:43	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			02/13/22 18:52	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		02/11/22 16:01	02/13/22 05:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		02/11/22 16:01	02/13/22 05:37	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-13 0-4.1'

Lab Sample ID: 880-11203-19

Date Collected: 02/11/22 11:01

Matrix: Solid

Date Received: 02/11/22 15:39

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		02/11/22 16:01	02/13/22 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130	02/11/22 16:01	02/13/22 05:37	1
o-Terphenyl (Surr)	64	S1-	70 - 130	02/11/22 16:01	02/13/22 05:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05	mg/Kg			02/12/22 21:20	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-11203-1	C-1 8'	93	105
880-11203-1 MS	C-1 8'	234 S1+	99
880-11203-1 MSD	C-1 8'	147 S1+	115
880-11203-2	C-1 9'	324 S1+	102
880-11203-3	C-110'	204 S1+	110
880-11203-4	C-1 11'	158 S1+	105
880-11203-5	C-2 8'	144 S1+	
880-11203-5	C-2 8'		72
880-11203-6	C-2 9'	124	103
880-11203-7	C-2 10'	201 S1+	104
880-11203-8	C-2 11'	161 S1+	107
880-11203-9	C-3 6'	320 S1+	132 S1+
880-11203-10	C-4 6'	132 S1+	77
880-11203-11	C-5 5'	201 S1+	91
880-11203-12	C-6 3'	197 S1+	75
880-11203-13	C-7 2'	186 S1+	76
880-11203-14	C-8 2'	192 S1+	91
880-11203-15	C-9 2'	202 S1+	81
880-11203-16	C-10 4.1'-8'	328 S1+	72
880-11203-17	C-11 4.1'-8'	189 S1+	82
880-11203-18	C-12 0-4.1'	205 S1+	71
880-11203-19	C-13 0-4.1'	175 S1+	83
880-11436-A-2-C MS	Matrix Spike	132 S1+	97
880-11436-A-2-D MSD	Matrix Spike Duplicate	155 S1+	44 S1-
880-11473-A-8-E MS	Matrix Spike	171 S1+	81
880-11473-A-8-F MSD	Matrix Spike Duplicate	170 S1+	82
890-1933-A-1-I MS	Matrix Spike	95	103
890-1933-A-1-J MSD	Matrix Spike Duplicate	97	113
890-1969-A-5-G MS	Matrix Spike	158 S1+	78
890-1969-A-5-H MSD	Matrix Spike Duplicate	179 S1+	79
LCS 880-19231/1-A	Lab Control Sample	104	104
LCS 880-19233/1-A	Lab Control Sample	94	105
LCS 880-19696/1-A	Lab Control Sample	112	99
LCS 880-19707/1-A	Lab Control Sample	108	98
LCS 880-20024/1-A	Lab Control Sample	165 S1+	74
LCS 880-20070/1-A	Lab Control Sample	175 S1+	88
LCSD 880-19231/2-A	Lab Control Sample Dup	97	99
LCSD 880-19233/2-A	Lab Control Sample Dup	98	103
LCSD 880-19696/2-A	Lab Control Sample Dup	113	91
LCSD 880-19707/2-A	Lab Control Sample Dup	109	96
LCSD 880-20024/2-A	Lab Control Sample Dup	148 S1+	74
LCSD 880-20070/2-A	Lab Control Sample Dup	160 S1+	90
MB 880-19036/5-A	Method Blank	104	104
MB 880-19231/5-A	Method Blank	94	99
MB 880-19233/5-A	Method Blank	105	101
MB 880-19696/5-A	Method Blank	116	89
MB 880-19707/5-A	Method Blank	119	98
MB 880-20024/5-A	Method Blank	120	73
MB 880-20070/5-A	Method Blank	118	71

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

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)
880-11203-1	C-1 8'	90	87
880-11203-1 MS	C-1 8'	58 S1-	53 S1-
880-11203-1 MSD	C-1 8'	75	79
880-11203-2	C-1 9'	74	77
880-11203-3	C-110'	93	96
880-11203-4	C-1 11'	111	85
880-11203-5	C-2 8'	163 S1+	75
880-11203-6	C-2 9'	184 S1+	78
880-11203-7	C-2 10'	140 S1+	76
880-11203-8	C-2 11'	108	75
880-11203-9	C-3 6'	74	84
880-11203-10	C-4 6'	68 S1-	67 S1-
880-11203-11	C-5 5'	89	83
880-11203-12	C-6 3'	70	64 S1-
880-11203-13	C-7 2'	70	71
880-11203-14	C-8 2'	69 S1-	65 S1-
880-11203-15	C-9 2'	66 S1-	62 S1-
880-11203-16	C-10 4.1'-8'	84	71
880-11203-17	C-11 4.1'-8'	67 S1-	62 S1-
880-11203-18	C-12 0-4.1'	69 S1-	60 S1-
880-11203-19	C-13 0-4.1'	71	64 S1-

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (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	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-19197/2-A	Lab Control Sample	109	107
LCSD 880-19197/3-A	Lab Control Sample Dup	87	89
MB 880-19197/1-A	Method Blank	71	66 S1-

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-19036/5-A

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19036

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/11/22 16:00	02/12/22 09:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/11/22 16:00	02/12/22 09:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/11/22 16:00	02/12/22 09:09	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/11/22 16:00	02/12/22 09:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/11/22 16:00	02/12/22 09:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/11/22 16:00	02/12/22 09:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/11/22 16:00	02/12/22 09:09	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/11/22 16:00	02/12/22 09:09	1

Lab Sample ID: MB 880-19231/5-A

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19231

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/12/22 09:37	02/12/22 20:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/12/22 09:37	02/12/22 20:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/12/22 09:37	02/12/22 20:03	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/12/22 09:37	02/12/22 20:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/12/22 09:37	02/12/22 20:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/12/22 09:37	02/12/22 20:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	02/12/22 09:37	02/12/22 20:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/12/22 09:37	02/12/22 20:03	1

Lab Sample ID: LCS 880-19231/1-A

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09663		mg/Kg		97	70 - 130
Toluene	0.100	0.09903		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1062		mg/Kg		106	70 - 130
m,p-Xylenes	0.200	0.2031		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1035		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-19231/2-A

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19231

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08739		mg/Kg		87	70 - 130	10	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-19231/2-A

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19231

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08885		mg/Kg		89	70 - 130	11	35
Ethylbenzene	0.100	0.09268		mg/Kg		93	70 - 130	14	35
m,p-Xylenes	0.200	0.1746		mg/Kg		87	70 - 130	15	35
o-Xylene	0.100	0.09034		mg/Kg		90	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-11203-1 MS

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: C-1 8'

Prep Type: Total/NA

Prep Batch: 19231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1021		mg/Kg		102	70 - 130		
Toluene	0.0274	F1 F2	0.0990	0.3092	F1	mg/Kg		285	70 - 130		
Ethylbenzene	0.0237	F1 F2	0.0990	0.3281	F1	mg/Kg		307	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	234	S1+	70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-11203-1 MSD

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: C-1 8'

Prep Type: Total/NA

Prep Batch: 19231

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0998	0.09694		mg/Kg		96	70 - 130	5	35
Toluene	0.0274	F1 F2	0.0998	0.1424	F2	mg/Kg		115	70 - 130	74	35
Ethylbenzene	0.0237	F1 F2	0.0998	0.1604	F1 F2	mg/Kg		137	70 - 130	69	35
m,p-Xylenes	0.137	F1 F2	0.200	0.5920	F1 F2	mg/Kg		228	70 - 130	80	35
o-Xylene	0.0447	F1 F2	0.0998	0.2343	F1 F2	mg/Kg		190	70 - 130	77	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: MB 880-19233/5-A

Matrix: Solid

Analysis Batch: 19287

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19233

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/14/22 07:30	02/14/22 10:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/14/22 07:30	02/14/22 10:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/14/22 07:30	02/14/22 10:45	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/14/22 07:30	02/14/22 10:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/14/22 07:30	02/14/22 10:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/14/22 07:30	02/14/22 10:45	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	02/14/22 07:30	02/14/22 10:45	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/14/22 07:30	02/14/22 10:45	1

Lab Sample ID: LCS 880-19233/1-A

Matrix: Solid

Analysis Batch: 19287

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08139		mg/Kg		81	70 - 130
Toluene	0.100	0.08280		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08810		mg/Kg		88	70 - 130
m,p-Xylenes	0.200	0.1790		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09153		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-19233/2-A

Matrix: Solid

Analysis Batch: 19287

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19233

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08548		mg/Kg		85	70 - 130	5	35
Toluene	0.100	0.08704		mg/Kg		87	70 - 130	5	35
Ethylbenzene	0.100	0.09599		mg/Kg		96	70 - 130	9	35
m,p-Xylenes	0.200	0.1918		mg/Kg		96	70 - 130	7	35
o-Xylene	0.100	0.09502		mg/Kg		95	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1933-A-1-I MS

Matrix: Solid

Analysis Batch: 19287

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0998	0.08454		mg/Kg		84	70 - 130
Toluene	<0.00199	U	0.0998	0.08428		mg/Kg		84	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.08638		mg/Kg		87	70 - 130
m,p-Xylenes	<0.00398	U	0.200	0.1786		mg/Kg		90	70 - 130
o-Xylene	<0.00199	U	0.0998	0.09061		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1933-A-1-J MSD

Matrix: Solid

Analysis Batch: 19287

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0992	0.08596		mg/Kg		86	70 - 130	2	35
Toluene	<0.00199	U	0.0992	0.08252		mg/Kg		82	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.0992	0.09040		mg/Kg		91	70 - 130	5	35
m,p-Xylenes	<0.00398	U	0.198	0.1832		mg/Kg		92	70 - 130	3	35
o-Xylene	<0.00199	U	0.0992	0.09305		mg/Kg		93	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: MB 880-19696/5-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19696

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 07:00	02/18/22 12:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 07:00	02/18/22 12:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 07:00	02/18/22 12:41	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/18/22 07:00	02/18/22 12:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 07:00	02/18/22 12:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/18/22 07:00	02/18/22 12:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	02/18/22 07:00	02/18/22 12:41	1
1,4-Difluorobenzene (Surr)	89		70 - 130	02/18/22 07:00	02/18/22 12:41	1

Lab Sample ID: LCS 880-19696/1-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09002		mg/Kg		90	70 - 130
Toluene	0.100	0.09048		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.1034		mg/Kg		103	70 - 130
m,p-Xylenes	0.200	0.1884		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09890		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-19696/2-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08948		mg/Kg		89	70 - 130	1	35
Toluene	0.100	0.09333		mg/Kg		93	70 - 130	3	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-19696/2-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130	1	35
m,p-Xylenes	0.200	0.1926		mg/Kg		96	70 - 130	2	35
o-Xylene	0.100	0.09354		mg/Kg		94	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-11436-A-2-C MS

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.07205		mg/Kg		71	70 - 130		
Toluene	<0.00199	U F1 F2	0.101	0.07874		mg/Kg		78	70 - 130		
Ethylbenzene	<0.00199	U	0.101	0.09275		mg/Kg		92	70 - 130		
m,p-Xylenes	<0.00398	U F1 F2	0.202	0.1741		mg/Kg		86	70 - 130		
o-Xylene	<0.00199	U F1 F2	0.101	0.09651		mg/Kg		96	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-11436-A-2-D MSD

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08192		mg/Kg		82	70 - 130	13	35
Toluene	<0.00199	U F1 F2	0.100	0.04688	F1 F2	mg/Kg		47	70 - 130	51	35
Ethylbenzene	<0.00199	U	0.100	0.08108		mg/Kg		81	70 - 130	13	35
m,p-Xylenes	<0.00398	U F1 F2	0.200	0.1063	F1 F2	mg/Kg		53	70 - 130	48	35
o-Xylene	<0.00199	U F1 F2	0.100	0.2186	F1 F2	mg/Kg		219	70 - 130	77	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130
1,4-Difluorobenzene (Surr)	44	S1-	70 - 130

Lab Sample ID: MB 880-19707/5-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19707

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 08:00	02/19/22 00:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 08:00	02/19/22 00:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 08:00	02/19/22 00:17	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/18/22 08:00	02/19/22 00:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 08:00	02/19/22 00:17	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-19707/5-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19707

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/18/22 08:00	02/19/22 00:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	02/18/22 08:00	02/19/22 00:17	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02/18/22 08:00	02/19/22 00:17	1

Lab Sample ID: LCS 880-19707/1-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19707

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08860		mg/Kg		89	70 - 130
Toluene	0.100	0.1018		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09205		mg/Kg		92	70 - 130
m,p-Xylenes	0.200	0.1862		mg/Kg		93	70 - 130
o-Xylene	0.100	0.08996		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-19707/2-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19707

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08442		mg/Kg		84	70 - 130	5	35
Toluene	0.100	0.09326		mg/Kg		93	70 - 130	9	35
Ethylbenzene	0.100	0.09408		mg/Kg		94	70 - 130	2	35
m,p-Xylenes	0.200	0.1842		mg/Kg		92	70 - 130	1	35
o-Xylene	0.100	0.08941		mg/Kg		89	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-20024/5-A

Matrix: Solid

Analysis Batch: 20021

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20024

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/22/22 08:49	02/22/22 12:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/22/22 08:49	02/22/22 12:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/22/22 08:49	02/22/22 12:32	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/22/22 08:49	02/22/22 12:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/22/22 08:49	02/22/22 12:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/22/22 08:49	02/22/22 12:32	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-20024/5-A

Matrix: Solid

Analysis Batch: 20021

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20024

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	02/22/22 08:49	02/22/22 12:32	1
1,4-Difluorobenzene (Surr)	73		70 - 130	02/22/22 08:49	02/22/22 12:32	1

Lab Sample ID: LCS 880-20024/1-A

Matrix: Solid

Analysis Batch: 20021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1126		mg/Kg		113	70 - 130
Toluene	0.100	0.1159		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1120		mg/Kg		112	70 - 130
m,p-Xylenes	0.200	0.2331		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1227		mg/Kg		123	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	165	S1+	70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

Lab Sample ID: LCSD 880-20024/2-A

Matrix: Solid

Analysis Batch: 20021

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20024

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1123		mg/Kg		112	70 - 130	0	35
Toluene	0.100	0.1158		mg/Kg		116	70 - 130	0	35
Ethylbenzene	0.100	0.1123		mg/Kg		112	70 - 130	0	35
m,p-Xylenes	0.200	0.2323		mg/Kg		116	70 - 130	0	35
o-Xylene	0.100	0.1239		mg/Kg		124	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

Lab Sample ID: 890-1969-A-5-G MS

Matrix: Solid

Analysis Batch: 20021

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20024

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.100	0.09437		mg/Kg		94	70 - 130
Toluene	<0.00199	U	0.100	0.1061		mg/Kg		106	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.09841		mg/Kg		98	70 - 130
m,p-Xylenes	<0.00398	U	0.200	0.2196		mg/Kg		110	70 - 130
o-Xylene	<0.00199	U	0.100	0.1084		mg/Kg		108	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1969-A-5-H MSD

Matrix: Solid

Analysis Batch: 20021

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20024

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0998	0.1076		mg/Kg		108	70 - 130	13	35
Toluene	<0.00199	U	0.0998	0.1131		mg/Kg		113	70 - 130	6	35
Ethylbenzene	<0.00199	U	0.0998	0.1137		mg/Kg		114	70 - 130	14	35
m,p-Xylenes	<0.00398	U	0.200	0.2349		mg/Kg		118	70 - 130	7	35
o-Xylene	<0.00199	U	0.0998	0.1194		mg/Kg		120	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	179	S1+	70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: MB 880-20070/5-A

Matrix: Solid

Analysis Batch: 20021

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20070

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/22/22 15:21	02/23/22 09:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/22/22 15:21	02/23/22 09:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/22/22 15:21	02/23/22 09:15	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/22/22 15:21	02/23/22 09:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/22/22 15:21	02/23/22 09:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/22/22 15:21	02/23/22 09:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	02/22/22 15:21	02/23/22 09:15	1
1,4-Difluorobenzene (Surr)	71		70 - 130	02/22/22 15:21	02/23/22 09:15	1

Lab Sample ID: LCS 880-20070/1-A

Matrix: Solid

Analysis Batch: 20021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09229		mg/Kg		92	70 - 130
Toluene	0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1091		mg/Kg		109	70 - 130
m,p-Xylenes	0.200	0.2323		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1211		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: LCSD 880-20070/2-A

Matrix: Solid

Analysis Batch: 20021

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20070

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08443		mg/Kg		84	70 - 130	9	35
Toluene	0.100	0.09693		mg/Kg		97	70 - 130	6	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-20070/2-A

Matrix: Solid

Analysis Batch: 20021

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20070

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.100	0.1019		mg/Kg		102	70 - 130	7	35
m,p-Xylenes	0.200	0.2146		mg/Kg		107	70 - 130	8	35
o-Xylene	0.100	0.1125		mg/Kg		112	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-11473-A-8-E MS

Matrix: Solid

Analysis Batch: 20021

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.1038		mg/Kg		104	70 - 130		
Toluene	<0.00200	U	0.0998	0.1150		mg/Kg		115	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.1147		mg/Kg		115	70 - 130		
m,p-Xylenes	<0.00401	U	0.200	0.2364		mg/Kg		118	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.1185		mg/Kg		119	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	171	S1+	70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 880-11473-A-8-F MSD

Matrix: Solid

Analysis Batch: 20021

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0992	0.07988		mg/Kg		81	70 - 130	26	35
Toluene	<0.00200	U	0.0992	0.09431		mg/Kg		95	70 - 130	20	35
Ethylbenzene	<0.00200	U	0.0992	0.09956		mg/Kg		100	70 - 130	14	35
m,p-Xylenes	<0.00401	U	0.198	0.2088		mg/Kg		105	70 - 130	12	35
o-Xylene	<0.00200	U	0.0992	0.1094		mg/Kg		110	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	170	S1+	70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

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

Lab Sample ID: MB 880-19197/1-A

Matrix: Solid

Analysis Batch: 19282

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19197

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		02/11/22 16:01	02/12/22 20:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/11/22 16:01	02/12/22 20:40	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

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

Lab Sample ID: MB 880-19197/1-A

Matrix: Solid

Analysis Batch: 19282

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19197

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/11/22 16:01	02/12/22 20:40	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130			02/11/22 16:01	02/12/22 20:40	1
o-Terphenyl (Surr)	66	S1-	70 - 130			02/11/22 16:01	02/12/22 20:40	1

Lab Sample ID: LCS 880-19197/2-A

Matrix: Solid

Analysis Batch: 19282

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	922.1		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1033		mg/Kg		103	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	109		70 - 130				
o-Terphenyl (Surr)	107		70 - 130				

Lab Sample ID: LCSD 880-19197/3-A

Matrix: Solid

Analysis Batch: 19282

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19197

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	950.5		mg/Kg		95	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	814.0	*1	mg/Kg		81	70 - 130	24	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	87		70 - 130						
o-Terphenyl (Surr)	89		70 - 130						

Lab Sample ID: 880-11203-1 MS

Matrix: Solid

Analysis Batch: 19282

Client Sample ID: C-1 8'

Prep Type: Total/NA

Prep Batch: 19197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	81.3	F1 F2	1000	836.2		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	257	*1 F1 F2	1000	949.6	F1	mg/Kg		69	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	58	S1-	70 - 130						
o-Terphenyl (Surr)	53	S1-	70 - 130						

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

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

Lab Sample ID: 880-11203-1 MSD

Matrix: Solid

Analysis Batch: 19282

Client Sample ID: C-1 8'

Prep Type: Total/NA

Prep Batch: 19197

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	81.3	F1 F2	998	1497	F1 F2	mg/Kg		142	70 - 130	57	20
Diesel Range Organics (Over C10-C28)	257	*1 F1 F2	998	1272	F2	mg/Kg		102	70 - 130	29	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	75		70 - 130								
o-Terphenyl (Surr)	79		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19201/1-A

Matrix: Solid

Analysis Batch: 19351

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			02/12/22 16:33	1

Lab Sample ID: LCS 880-19201/2-A

Matrix: Solid

Analysis Batch: 19351

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	268.4		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-19201/3-A

Matrix: Solid

Analysis Batch: 19351

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	268.3		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-11203-10 MS

Matrix: Solid

Analysis Batch: 19351

Client Sample ID: C-4 6'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1440		253	1668	E 4	mg/Kg		91	90 - 110

Lab Sample ID: 880-11203-10 MSD

Matrix: Solid

Analysis Batch: 19351

Client Sample ID: C-4 6'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1440		253	1664	E 4	mg/Kg		89	90 - 110	0	20

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

GC VOA

Prep Batch: 19036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19036/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 19116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-1	C-1 8'	Total/NA	Solid	8021B	19231
880-11203-2	C-1 9'	Total/NA	Solid	8021B	19231
880-11203-3	C-110'	Total/NA	Solid	8021B	19231
880-11203-9	C-3 6'	Total/NA	Solid	8021B	19231
880-11203-10	C-4 6'	Total/NA	Solid	8021B	19231
MB 880-19036/5-A	Method Blank	Total/NA	Solid	8021B	19036
MB 880-19231/5-A	Method Blank	Total/NA	Solid	8021B	19231
LCS 880-19231/1-A	Lab Control Sample	Total/NA	Solid	8021B	19231
LCSD 880-19231/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19231
880-11203-1 MS	C-1 8'	Total/NA	Solid	8021B	19231
880-11203-1 MSD	C-1 8'	Total/NA	Solid	8021B	19231

Prep Batch: 19231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-1	C-1 8'	Total/NA	Solid	5035	
880-11203-2	C-1 9'	Total/NA	Solid	5035	
880-11203-3	C-110'	Total/NA	Solid	5035	
880-11203-9	C-3 6'	Total/NA	Solid	5035	
880-11203-10	C-4 6'	Total/NA	Solid	5035	
MB 880-19231/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19231/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19231/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11203-1 MS	C-1 8'	Total/NA	Solid	5035	
880-11203-1 MSD	C-1 8'	Total/NA	Solid	5035	

Prep Batch: 19233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-2	C-1 9'	Total/NA	Solid	5035	
880-11203-3	C-110'	Total/NA	Solid	5035	
880-11203-4	C-1 11'	Total/NA	Solid	5035	
880-11203-5	C-2 8'	Total/NA	Solid	5035	
880-11203-6	C-2 9'	Total/NA	Solid	5035	
880-11203-7	C-2 10'	Total/NA	Solid	5035	
880-11203-8	C-2 11'	Total/NA	Solid	5035	
880-11203-9	C-3 6'	Total/NA	Solid	5035	
880-11203-16	C-10 4.1'-8'	Total/NA	Solid	5035	
MB 880-19233/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19233/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19233/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1933-A-1-I MS	Matrix Spike	Total/NA	Solid	5035	
890-1933-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 19287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-2	C-1 9'	Total/NA	Solid	8021B	19233
880-11203-3	C-110'	Total/NA	Solid	8021B	19233
880-11203-4	C-1 11'	Total/NA	Solid	8021B	19233

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

GC VOA (Continued)

Analysis Batch: 19287 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-5	C-2 8'	Total/NA	Solid	8021B	19233
880-11203-6	C-2 9'	Total/NA	Solid	8021B	19233
880-11203-7	C-2 10'	Total/NA	Solid	8021B	19233
880-11203-8	C-2 11'	Total/NA	Solid	8021B	19233
880-11203-9	C-3 6'	Total/NA	Solid	8021B	19233
880-11203-16	C-10 4.1'-8'	Total/NA	Solid	8021B	19233
MB 880-19233/5-A	Method Blank	Total/NA	Solid	8021B	19233
LCS 880-19233/1-A	Lab Control Sample	Total/NA	Solid	8021B	19233
LCSD 880-19233/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19233
890-1933-A-1-I MS	Matrix Spike	Total/NA	Solid	8021B	19233
890-1933-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	19233

Analysis Batch: 19350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-1	C-1 8'	Total/NA	Solid	Total BTEX	
880-11203-2	C-1 9'	Total/NA	Solid	Total BTEX	
880-11203-3	C-110'	Total/NA	Solid	Total BTEX	
880-11203-4	C-1 11'	Total/NA	Solid	Total BTEX	
880-11203-5	C-2 8'	Total/NA	Solid	Total BTEX	
880-11203-7	C-2 10'	Total/NA	Solid	Total BTEX	
880-11203-8	C-2 11'	Total/NA	Solid	Total BTEX	
880-11203-9	C-3 6'	Total/NA	Solid	Total BTEX	
880-11203-10	C-4 6'	Total/NA	Solid	Total BTEX	
880-11203-11	C-5 5'	Total/NA	Solid	Total BTEX	
880-11203-12	C-6 3'	Total/NA	Solid	Total BTEX	
880-11203-13	C-7 2'	Total/NA	Solid	Total BTEX	
880-11203-14	C-8 2'	Total/NA	Solid	Total BTEX	
880-11203-15	C-9 2'	Total/NA	Solid	Total BTEX	
880-11203-16	C-10 4.1'-8'	Total/NA	Solid	Total BTEX	
880-11203-17	C-11 4.1'-8'	Total/NA	Solid	Total BTEX	
880-11203-18	C-12 0-4.1'	Total/NA	Solid	Total BTEX	
880-11203-19	C-13 0-4.1'	Total/NA	Solid	Total BTEX	

Analysis Batch: 19542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-6	C-2 9'	Total/NA	Solid	Total BTEX	

Prep Batch: 19696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19696/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19696/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19696/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11436-A-2-C MS	Matrix Spike	Total/NA	Solid	5035	
880-11436-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 19707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-6	C-2 9'	Total/NA	Solid	5035	
MB 880-19707/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19707/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19707/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

GC VOA

Analysis Batch: 19783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-6	C-2 9'	Total/NA	Solid	8021B	19707
MB 880-19696/5-A	Method Blank	Total/NA	Solid	8021B	19696
MB 880-19707/5-A	Method Blank	Total/NA	Solid	8021B	19707
LCS 880-19696/1-A	Lab Control Sample	Total/NA	Solid	8021B	19696
LCS 880-19707/1-A	Lab Control Sample	Total/NA	Solid	8021B	19707
LCSD 880-19696/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19696
LCSD 880-19707/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19707
880-11436-A-2-C MS	Matrix Spike	Total/NA	Solid	8021B	19696
880-11436-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	19696

Analysis Batch: 20021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-5	C-2 8'	Total/NA	Solid	8021B	20024
880-11203-11	C-5 5'	Total/NA	Solid	8021B	20070
880-11203-12	C-6 3'	Total/NA	Solid	8021B	20024
880-11203-13	C-7 2'	Total/NA	Solid	8021B	20024
880-11203-14	C-8 2'	Total/NA	Solid	8021B	20024
880-11203-15	C-9 2'	Total/NA	Solid	8021B	20024
880-11203-16	C-10 4.1'-8'	Total/NA	Solid	8021B	20070
880-11203-17	C-11 4.1'-8'	Total/NA	Solid	8021B	20024
880-11203-18	C-12 0-4.1'	Total/NA	Solid	8021B	20024
880-11203-19	C-13 0-4.1'	Total/NA	Solid	8021B	20070
MB 880-20024/5-A	Method Blank	Total/NA	Solid	8021B	20024
MB 880-20070/5-A	Method Blank	Total/NA	Solid	8021B	20070
LCS 880-20024/1-A	Lab Control Sample	Total/NA	Solid	8021B	20024
LCS 880-20070/1-A	Lab Control Sample	Total/NA	Solid	8021B	20070
LCSD 880-20024/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20024
LCSD 880-20070/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20070
880-11473-A-8-E MS	Matrix Spike	Total/NA	Solid	8021B	20070
880-11473-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20070
890-1969-A-5-G MS	Matrix Spike	Total/NA	Solid	8021B	20024
890-1969-A-5-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20024

Prep Batch: 20024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-5	C-2 8'	Total/NA	Solid	5035	
880-11203-12	C-6 3'	Total/NA	Solid	5035	
880-11203-13	C-7 2'	Total/NA	Solid	5035	
880-11203-14	C-8 2'	Total/NA	Solid	5035	
880-11203-15	C-9 2'	Total/NA	Solid	5035	
880-11203-17	C-11 4.1'-8'	Total/NA	Solid	5035	
880-11203-18	C-12 0-4.1'	Total/NA	Solid	5035	
MB 880-20024/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20024/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20024/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1969-A-5-G MS	Matrix Spike	Total/NA	Solid	5035	
890-1969-A-5-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 20070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-11	C-5 5'	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

GC VOA (Continued)

Prep Batch: 20070 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-16	C-10 4.1'-8'	Total/NA	Solid	5035	
880-11203-19	C-13 0-4.1'	Total/NA	Solid	5035	
MB 880-20070/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20070/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20070/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11473-A-8-E MS	Matrix Spike	Total/NA	Solid	5035	
880-11473-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 19197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-1	C-1 8'	Total/NA	Solid	8015NM Prep	
880-11203-2	C-1 9'	Total/NA	Solid	8015NM Prep	
880-11203-3	C-110'	Total/NA	Solid	8015NM Prep	
880-11203-4	C-1 11'	Total/NA	Solid	8015NM Prep	
880-11203-5	C-2 8'	Total/NA	Solid	8015NM Prep	
880-11203-6	C-2 9'	Total/NA	Solid	8015NM Prep	
880-11203-7	C-2 10'	Total/NA	Solid	8015NM Prep	
880-11203-8	C-2 11'	Total/NA	Solid	8015NM Prep	
880-11203-9	C-3 6'	Total/NA	Solid	8015NM Prep	
880-11203-10	C-4 6'	Total/NA	Solid	8015NM Prep	
880-11203-11	C-5 5'	Total/NA	Solid	8015NM Prep	
880-11203-12	C-6 3'	Total/NA	Solid	8015NM Prep	
880-11203-13	C-7 2'	Total/NA	Solid	8015NM Prep	
880-11203-14	C-8 2'	Total/NA	Solid	8015NM Prep	
880-11203-15	C-9 2'	Total/NA	Solid	8015NM Prep	
880-11203-16	C-10 4.1'-8'	Total/NA	Solid	8015NM Prep	
880-11203-17	C-11 4.1'-8'	Total/NA	Solid	8015NM Prep	
880-11203-18	C-12 0-4.1'	Total/NA	Solid	8015NM Prep	
880-11203-19	C-13 0-4.1'	Total/NA	Solid	8015NM Prep	
MB 880-19197/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19197/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19197/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11203-1 MS	C-1 8'	Total/NA	Solid	8015NM Prep	
880-11203-1 MSD	C-1 8'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 19280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-1	C-1 8'	Total/NA	Solid	8015 NM	
880-11203-2	C-1 9'	Total/NA	Solid	8015 NM	
880-11203-3	C-110'	Total/NA	Solid	8015 NM	
880-11203-4	C-1 11'	Total/NA	Solid	8015 NM	
880-11203-5	C-2 8'	Total/NA	Solid	8015 NM	
880-11203-6	C-2 9'	Total/NA	Solid	8015 NM	
880-11203-7	C-2 10'	Total/NA	Solid	8015 NM	
880-11203-8	C-2 11'	Total/NA	Solid	8015 NM	
880-11203-9	C-3 6'	Total/NA	Solid	8015 NM	
880-11203-10	C-4 6'	Total/NA	Solid	8015 NM	
880-11203-11	C-5 5'	Total/NA	Solid	8015 NM	
880-11203-12	C-6 3'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

GC Semi VOA (Continued)

Analysis Batch: 19280 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-13	C-7 2'	Total/NA	Solid	8015 NM	
880-11203-14	C-8 2'	Total/NA	Solid	8015 NM	
880-11203-15	C-9 2'	Total/NA	Solid	8015 NM	
880-11203-16	C-10 4.1'-8'	Total/NA	Solid	8015 NM	
880-11203-17	C-11 4.1'-8'	Total/NA	Solid	8015 NM	
880-11203-18	C-12 0-4.1'	Total/NA	Solid	8015 NM	
880-11203-19	C-13 0-4.1'	Total/NA	Solid	8015 NM	

Analysis Batch: 19282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-1	C-1 8'	Total/NA	Solid	8015B NM	19197
880-11203-2	C-1 9'	Total/NA	Solid	8015B NM	19197
880-11203-3	C-110'	Total/NA	Solid	8015B NM	19197
880-11203-4	C-1 11'	Total/NA	Solid	8015B NM	19197
880-11203-5	C-2 8'	Total/NA	Solid	8015B NM	19197
880-11203-6	C-2 9'	Total/NA	Solid	8015B NM	19197
880-11203-7	C-2 10'	Total/NA	Solid	8015B NM	19197
880-11203-8	C-2 11'	Total/NA	Solid	8015B NM	19197
880-11203-9	C-3 6'	Total/NA	Solid	8015B NM	19197
880-11203-10	C-4 6'	Total/NA	Solid	8015B NM	19197
880-11203-11	C-5 5'	Total/NA	Solid	8015B NM	19197
880-11203-12	C-6 3'	Total/NA	Solid	8015B NM	19197
880-11203-13	C-7 2'	Total/NA	Solid	8015B NM	19197
880-11203-14	C-8 2'	Total/NA	Solid	8015B NM	19197
880-11203-15	C-9 2'	Total/NA	Solid	8015B NM	19197
880-11203-16	C-10 4.1'-8'	Total/NA	Solid	8015B NM	19197
880-11203-17	C-11 4.1'-8'	Total/NA	Solid	8015B NM	19197
880-11203-18	C-12 0-4.1'	Total/NA	Solid	8015B NM	19197
880-11203-19	C-13 0-4.1'	Total/NA	Solid	8015B NM	19197
MB 880-19197/1-A	Method Blank	Total/NA	Solid	8015B NM	19197
LCS 880-19197/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19197
LCSD 880-19197/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19197
880-11203-1 MS	C-1 8'	Total/NA	Solid	8015B NM	19197
880-11203-1 MSD	C-1 8'	Total/NA	Solid	8015B NM	19197

HPLC/IC

Leach Batch: 19201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-1	C-1 8'	Soluble	Solid	DI Leach	
880-11203-2	C-1 9'	Soluble	Solid	DI Leach	
880-11203-3	C-110'	Soluble	Solid	DI Leach	
880-11203-4	C-1 11'	Soluble	Solid	DI Leach	
880-11203-5	C-2 8'	Soluble	Solid	DI Leach	
880-11203-6	C-2 9'	Soluble	Solid	DI Leach	
880-11203-7	C-2 10'	Soluble	Solid	DI Leach	
880-11203-8	C-2 11'	Soluble	Solid	DI Leach	
880-11203-9	C-3 6'	Soluble	Solid	DI Leach	
880-11203-10	C-4 6'	Soluble	Solid	DI Leach	
880-11203-11	C-5 5'	Soluble	Solid	DI Leach	
880-11203-12	C-6 3'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

HPLC/IC (Continued)

Leach Batch: 19201 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-13	C-7 2'	Soluble	Solid	DI Leach	
880-11203-14	C-8 2'	Soluble	Solid	DI Leach	
880-11203-15	C-9 2'	Soluble	Solid	DI Leach	
880-11203-16	C-10 4.1'-8'	Soluble	Solid	DI Leach	
880-11203-17	C-11 4.1'-8'	Soluble	Solid	DI Leach	
880-11203-18	C-12 0-4.1'	Soluble	Solid	DI Leach	
880-11203-19	C-13 0-4.1'	Soluble	Solid	DI Leach	
MB 880-19201/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19201/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19201/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11203-10 MS	C-4 6'	Soluble	Solid	DI Leach	
880-11203-10 MSD	C-4 6'	Soluble	Solid	DI Leach	

Analysis Batch: 19351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11203-1	C-1 8'	Soluble	Solid	300.0	19201
880-11203-2	C-1 9'	Soluble	Solid	300.0	19201
880-11203-3	C-110'	Soluble	Solid	300.0	19201
880-11203-4	C-1 11'	Soluble	Solid	300.0	19201
880-11203-5	C-2 8'	Soluble	Solid	300.0	19201
880-11203-6	C-2 9'	Soluble	Solid	300.0	19201
880-11203-7	C-2 10'	Soluble	Solid	300.0	19201
880-11203-8	C-2 11'	Soluble	Solid	300.0	19201
880-11203-9	C-3 6'	Soluble	Solid	300.0	19201
880-11203-10	C-4 6'	Soluble	Solid	300.0	19201
880-11203-11	C-5 5'	Soluble	Solid	300.0	19201
880-11203-12	C-6 3'	Soluble	Solid	300.0	19201
880-11203-13	C-7 2'	Soluble	Solid	300.0	19201
880-11203-14	C-8 2'	Soluble	Solid	300.0	19201
880-11203-15	C-9 2'	Soluble	Solid	300.0	19201
880-11203-16	C-10 4.1'-8'	Soluble	Solid	300.0	19201
880-11203-17	C-11 4.1'-8'	Soluble	Solid	300.0	19201
880-11203-18	C-12 0-4.1'	Soluble	Solid	300.0	19201
880-11203-19	C-13 0-4.1'	Soluble	Solid	300.0	19201
MB 880-19201/1-A	Method Blank	Soluble	Solid	300.0	19201
LCS 880-19201/2-A	Lab Control Sample	Soluble	Solid	300.0	19201
LCSD 880-19201/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19201
880-11203-10 MS	C-4 6'	Soluble	Solid	300.0	19201
880-11203-10 MSD	C-4 6'	Soluble	Solid	300.0	19201

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-1 8'

Lab Sample ID: 880-11203-1

Date Collected: 02/11/22 10:18

Matrix: Solid

Date Received: 02/11/22 15:39

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	19231	02/12/22 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 20:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/12/22 21:43	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		5			19351	02/12/22 17:30	CH	XEN MID

Client Sample ID: C-1 9'

Lab Sample ID: 880-11203-2

Date Collected: 02/11/22 10:21

Matrix: Solid

Date Received: 02/11/22 15:39

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	19231	02/12/22 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 20:45	KL	XEN MID
Total/NA	Prep	5035			5.01 g	5 mL	19233	02/14/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	19287	02/14/22 11:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/12/22 22:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		10			19351	02/12/22 17:40	CH	XEN MID

Client Sample ID: C-110'

Lab Sample ID: 880-11203-3

Date Collected: 02/11/22 10:24

Matrix: Solid

Date Received: 02/11/22 15:39

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	19231	02/12/22 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 21:06	KL	XEN MID
Total/NA	Prep	5035			5.04 g	5 mL	19233	02/14/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	19287	02/14/22 12:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/12/22 23:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		10			19351	02/12/22 17:49	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-1 11'

Lab Sample ID: 880-11203-4

Date Collected: 02/11/22 10:26

Matrix: Solid

Date Received: 02/11/22 15:39

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	19233	02/14/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	19287	02/14/22 12:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/12/22 23:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		10			19351	02/12/22 17:59	CH	XEN MID

Client Sample ID: C-2 8'

Lab Sample ID: 880-11203-5

Date Collected: 02/11/22 10:29

Matrix: Solid

Date Received: 02/11/22 15:39

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	19233	02/14/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	19287	02/14/22 12:48	KL	XEN MID
Total/NA	Prep	5035			5.03 g	5 mL	20024	02/22/22 08:49	MR	XEN MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	20021	02/22/22 22:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/12/22 23:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		5			19351	02/12/22 18:28	CH	XEN MID

Client Sample ID: C-2 9'

Lab Sample ID: 880-11203-6

Date Collected: 02/11/22 10:32

Matrix: Solid

Date Received: 02/11/22 15:39

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	19707	02/18/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	19783	02/19/22 03:30	MR	XEN MID
Total/NA	Prep	5035			5.00 g	5 mL	19233	02/14/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	19287	02/14/22 13:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19542	02/15/22 20:33	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 00:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		10			19351	02/12/22 18:37	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-2 10'

Lab Sample ID: 880-11203-7

Date Collected: 02/11/22 10:35

Matrix: Solid

Date Received: 02/11/22 15:39

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	19233	02/14/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	19287	02/14/22 13:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 00:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		20			19351	02/12/22 18:47	CH	XEN MID

Client Sample ID: C-2 11'

Lab Sample ID: 880-11203-8

Date Collected: 02/11/22 10:39

Matrix: Solid

Date Received: 02/11/22 15:39

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	19233	02/14/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	19287	02/14/22 13:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 01:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		10			19351	02/12/22 18:56	CH	XEN MID

Client Sample ID: C-3 6'

Lab Sample ID: 880-11203-9

Date Collected: 02/11/22 10:49

Matrix: Solid

Date Received: 02/11/22 15:39

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	19231	02/12/22 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 23:09	KL	XEN MID
Total/NA	Prep	5035			5.05 g	5 mL	19233	02/14/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	19287	02/14/22 14:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 01:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		1			19351	02/12/22 19:06	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-4 6'

Lab Sample ID: 880-11203-10

Date Collected: 02/11/22 10:50

Matrix: Solid

Date Received: 02/11/22 15:39

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	19231	02/12/22 09:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 23:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 02:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		1			19351	02/12/22 19:15	CH	XEN MID

Client Sample ID: C-5 5'

Lab Sample ID: 880-11203-11

Date Collected: 02/11/22 10:51

Matrix: Solid

Date Received: 02/11/22 15:39

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	20070	02/22/22 15:21	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20021	02/23/22 11:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 02:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		1			19351	02/12/22 19:44	CH	XEN MID

Client Sample ID: C-6 3'

Lab Sample ID: 880-11203-12

Date Collected: 02/11/22 10:52

Matrix: Solid

Date Received: 02/11/22 15:39

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	20024	02/22/22 08:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20021	02/22/22 20:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 03:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		5			19351	02/12/22 19:53	CH	XEN MID

Client Sample ID: C-7 2'

Lab Sample ID: 880-11203-13

Date Collected: 02/11/22 10:53

Matrix: Solid

Date Received: 02/11/22 15:39

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	20024	02/22/22 08:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20021	02/22/22 20:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-7 2'

Lab Sample ID: 880-11203-13

Date Collected: 02/11/22 10:53

Matrix: Solid

Date Received: 02/11/22 15:39

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			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 03:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		1			19351	02/12/22 20:22	CH	XEN MID

Client Sample ID: C-8 2'

Lab Sample ID: 880-11203-14

Date Collected: 02/11/22 10:54

Matrix: Solid

Date Received: 02/11/22 15:39

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	20024	02/22/22 08:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20021	02/22/22 20:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 03:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		1			19351	02/12/22 20:32	CH	XEN MID

Client Sample ID: C-9 2'

Lab Sample ID: 880-11203-15

Date Collected: 02/11/22 10:55

Matrix: Solid

Date Received: 02/11/22 15:39

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	20024	02/22/22 08:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20021	02/22/22 21:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 04:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		5			19351	02/12/22 20:41	CH	XEN MID

Client Sample ID: C-10 4.1'-8'

Lab Sample ID: 880-11203-16

Date Collected: 02/11/22 10:56

Matrix: Solid

Date Received: 02/11/22 15:39

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	19233	02/14/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	19287	02/14/22 15:33	KL	XEN MID
Total/NA	Prep	5035			5.01 g	5 mL	20070	02/22/22 15:21	MR	XEN MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	20021	02/23/22 12:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-10 4.1'-8'

Lab Sample ID: 880-11203-16

Date Collected: 02/11/22 10:56

Matrix: Solid

Date Received: 02/11/22 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 04:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		5			19351	02/12/22 20:51	CH	XEN MID

Client Sample ID: C-11 4.1'-8'

Lab Sample ID: 880-11203-17

Date Collected: 02/11/22 10:58

Matrix: Solid

Date Received: 02/11/22 15:39

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	20024	02/22/22 08:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20021	02/22/22 21:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 04:56	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		10			19351	02/12/22 21:00	CH	XEN MID

Client Sample ID: C-12 0-4.1'

Lab Sample ID: 880-11203-18

Date Collected: 02/11/22 11:00

Matrix: Solid

Date Received: 02/11/22 15:39

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	20024	02/22/22 08:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20021	02/22/22 22:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 05:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		1			19351	02/12/22 21:10	CH	XEN MID

Client Sample ID: C-13 0-4.1'

Lab Sample ID: 880-11203-19

Date Collected: 02/11/22 11:01

Matrix: Solid

Date Received: 02/11/22 15:39

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	20070	02/22/22 15:21	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20021	02/23/22 11:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19280	02/13/22 18:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19197	02/11/22 16:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19282	02/13/22 05:37	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Client Sample ID: C-13 0-4.1'
Date Collected: 02/11/22 11:01
Date Received: 02/11/22 15:39

Lab Sample ID: 880-11203-19
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			4.95 g	50 mL	19201	02/11/22 16:32	SC	XEN MID
Soluble	Analysis	300.0		1			19351	02/12/22 21:20	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

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: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

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

Eurofins Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11203-1
SDG: 22-0105-05

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-11203-1	C-1 8'	Solid	02/11/22 10:18	02/11/22 15:39
880-11203-2	C-1 9'	Solid	02/11/22 10:21	02/11/22 15:39
880-11203-3	C-110'	Solid	02/11/22 10:24	02/11/22 15:39
880-11203-4	C-1 11'	Solid	02/11/22 10:26	02/11/22 15:39
880-11203-5	C-2 8'	Solid	02/11/22 10:29	02/11/22 15:39
880-11203-6	C-2 9'	Solid	02/11/22 10:32	02/11/22 15:39
880-11203-7	C-2 10'	Solid	02/11/22 10:35	02/11/22 15:39
880-11203-8	C-2 11'	Solid	02/11/22 10:39	02/11/22 15:39
880-11203-9	C-3 6'	Solid	02/11/22 10:49	02/11/22 15:39
880-11203-10	C-4 6'	Solid	02/11/22 10:50	02/11/22 15:39
880-11203-11	C-5 5'	Solid	02/11/22 10:51	02/11/22 15:39
880-11203-12	C-6 3'	Solid	02/11/22 10:52	02/11/22 15:39
880-11203-13	C-7 2'	Solid	02/11/22 10:53	02/11/22 15:39
880-11203-14	C-8 2'	Solid	02/11/22 10:54	02/11/22 15:39
880-11203-15	C-9 2'	Solid	02/11/22 10:55	02/11/22 15:39
880-11203-16	C-10 4.1'-8'	Solid	02/11/22 10:56	02/11/22 15:39
880-11203-17	C-11 4.1'-8'	Solid	02/11/22 10:58	02/11/22 15:39
880-11203-18	C-12 0-4.1'	Solid	02/11/22 11:00	02/11/22 15:39
880-11203-19	C-13 0-4.1'	Solid	02/11/22 11:01	02/11/22 15:39

2/25/2022 (Rev. 2)

Aarson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Date Reported to:

DATE: 2/11/2012 PAGE 2 OF 2
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: COTTON AVE W TB
LAI PROJECT #: 12-0105-05 COLLECTOR: B34

TRRP report?
☐ Yes ☒ No

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

TIME ZONE:
Time zone/State:

WST / NM

Field Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTEX ☐ MTBE ☐

TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐

GASOLINE MOD 8015 ☐

DIESEL - MOD 8015 ☐

OIL - MOD 8015 ☐

VOC 8280 ☐

SVOC 8270 ☐

8081 PESTICIDES ☐

8082 PCBS ☐

TCLP - METALS (RCRA) ☐

TCLP - PEST ☐

TCLP - HERB ☐

TCLP - SEMI-VOC ☐

TCLP - OTHER LIST ☐

LEAD - TOTAL (RCRA) ☐

RCL ☐

TOX ☐

% MOISTURE ☐

J CYANIDE ☐

FLASHPOINT ☐

FLASHPOINT ☐

HEXAVALENT CHROMIUM ☐

PECHLORATE ☐

ALKALINITY ☐

EXPLOSIVES ☐

CHLORIDE ☐

ANIONS ☐

FIELD NOTES

TOTAL ~~YEAR~~ 4

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

LABORATORY: XENCO

TURN AROUND TIME

LABORATORY USE ONLY:

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-11203-1

SDG Number: 22-0105-05

Login Number: 11203**List Number: 1****Creator: Kramer, Jessica****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.	True	
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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-11386-1
Laboratory Sample Delivery Group: 22-0105-05
Client Project/Site: Cotton Draw TB

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

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
2/22/2022 11:32:37 AM

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

LINKS

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results through
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www.eurofinsus.com/Env

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.

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Laboratory Job ID: 880-11386-1
SDG: 22-0105-05

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

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
*1	LCS/LCSD RPD exceeds control limits.
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.

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.
α	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)

Eurofins Midland

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Job ID: 880-11386-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-11386-1****Receipt**

The samples were received on 2/16/2022 4:18 PM. 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 time was 2.7°C

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: C-15 10' (880-11386-11) at 1.0. Elevated reporting limits (RLs) are provided.

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-1 12' (880-11386-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-17 4.1-8 (880-11386-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-19655 and analytical batch 880-19670 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 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-19655/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-19656 and analytical batch 880-19672 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-15 9' (880-11386-10), C-16 0-4.1 (880-11386-13), C-16 4.1-8 (880-11386-14), C-17 0-4.1 (880-11386-15), C-17 4.1-8 (880-11386-16), (880-11386-A-9-F MS) and (880-11386-A-9-G MSD). 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.

HPLC/IC

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-1 12'

Lab Sample ID: 880-11386-1

Date Collected: 02/16/22 10:00

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/17/22 09:02	02/18/22 04:44	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/17/22 09:02	02/18/22 04:44	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/17/22 09:02	02/18/22 04:44	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		02/17/22 09:02	02/18/22 04:44	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/17/22 09:02	02/18/22 04:44	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/17/22 09:02	02/18/22 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	02/17/22 09:02	02/18/22 04:44	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/17/22 09:02	02/18/22 04:44	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			02/17/22 21:03	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			02/18/22 08:59	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		02/17/22 08:08	02/17/22 10:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/22 08:08	02/17/22 10:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/22 08:08	02/17/22 10:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130	02/17/22 08:08	02/17/22 10:58	1
o-Terphenyl (Surr)	125		70 - 130	02/17/22 08:08	02/17/22 10:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3730		49.8	mg/Kg			02/17/22 23:28	10

Client Sample ID: C-1 13'

Lab Sample ID: 880-11386-2

Date Collected: 02/16/22 10:05

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/18/22 05:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/18/22 05:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/18/22 05:04	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		02/17/22 09:02	02/18/22 05:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/18/22 05:04	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/17/22 09:02	02/18/22 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	02/17/22 09:02	02/18/22 05:04	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/17/22 09:02	02/18/22 05:04	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-1 13'

Lab Sample ID: 880-11386-2

Date Collected: 02/16/22 10:05

Matrix: Solid

Date Received: 02/16/22 16:18

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			02/17/22 21:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	97.5		50.0	mg/Kg			02/18/22 08:59	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		02/17/22 08:08	02/17/22 11:58	1
Diesel Range Organics (Over C10-C28)	97.5		50.0	mg/Kg		02/17/22 08:08	02/17/22 11:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/22 08:08	02/17/22 11:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			02/17/22 08:08	02/17/22 11:58	1
o-Terphenyl (Surr)	112		70 - 130			02/17/22 08:08	02/17/22 11:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2200		24.8	mg/Kg			02/17/22 23:47	5

Client Sample ID: C-2 12'

Lab Sample ID: 880-11386-3

Date Collected: 02/16/22 10:10

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/17/22 09:02	02/18/22 05:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/17/22 09:02	02/18/22 05:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/17/22 09:02	02/18/22 05:25	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		02/17/22 09:02	02/18/22 05:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/17/22 09:02	02/18/22 05:25	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/17/22 09:02	02/18/22 05:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			02/17/22 09:02	02/18/22 05:25	1
1,4-Difluorobenzene (Surr)	96		70 - 130			02/17/22 09:02	02/18/22 05:25	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			02/17/22 21:03	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			02/18/22 08:59	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		02/17/22 08:08	02/17/22 12:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/17/22 08:08	02/17/22 12:18	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-2 12'

Lab Sample ID: 880-11386-3

Date Collected: 02/16/22 10:10

Matrix: Solid

Date Received: 02/16/22 16:18

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		02/17/22 08:08	02/17/22 12:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			02/17/22 08:08	02/17/22 12:18	1
o-Terphenyl (Surr)	107		70 - 130			02/17/22 08:08	02/17/22 12:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3970		49.9	mg/Kg			02/17/22 23:53	10

Client Sample ID: C-2 13'

Lab Sample ID: 880-11386-4

Date Collected: 02/16/22 10:15

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/17/22 09:02	02/18/22 05:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/17/22 09:02	02/18/22 05:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/17/22 09:02	02/18/22 05:45	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/17/22 09:02	02/18/22 05:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/17/22 09:02	02/18/22 05:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/17/22 09:02	02/18/22 05:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			02/17/22 09:02	02/18/22 05:45	1
1,4-Difluorobenzene (Surr)	90		70 - 130			02/17/22 09:02	02/18/22 05:45	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			02/17/22 21:03	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			02/18/22 08:59	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		02/17/22 08:08	02/17/22 12:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/17/22 08:08	02/17/22 12:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/17/22 08:08	02/17/22 12:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130			02/17/22 08:08	02/17/22 12:39	1
o-Terphenyl (Surr)	128		70 - 130			02/17/22 08:08	02/17/22 12:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5250		50.0	mg/Kg			02/17/22 23:59	10

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-14 8'

Lab Sample ID: 880-11386-5

Date Collected: 02/16/22 10:02

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/18/22 06:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/18/22 06:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/18/22 06:06	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/17/22 09:02	02/18/22 06:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/18/22 06:06	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/17/22 09:02	02/18/22 06:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	02/17/22 09:02	02/18/22 06:06	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/17/22 09:02	02/18/22 06:06	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			02/17/22 21:03	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			02/18/22 08:59	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		02/17/22 08:08	02/17/22 12:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/22 08:08	02/17/22 12:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/22 08:08	02/17/22 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130	02/17/22 08:08	02/17/22 12:59	1
o-Terphenyl (Surr)	128		70 - 130	02/17/22 08:08	02/17/22 12:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		5.05	mg/Kg			02/18/22 00:06	1

Client Sample ID: C-14 9'

Lab Sample ID: 880-11386-6

Date Collected: 02/16/22 10:07

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/18/22 06:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/18/22 06:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/18/22 06:26	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/17/22 09:02	02/18/22 06:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/18/22 06:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/17/22 09:02	02/18/22 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	02/17/22 09:02	02/18/22 06:26	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/17/22 09:02	02/18/22 06:26	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-14 9'

Lab Sample ID: 880-11386-6

Date Collected: 02/16/22 10:07

Matrix: Solid

Date Received: 02/16/22 16:18

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			02/17/22 21:03	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			02/18/22 08:59	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		02/17/22 08:08	02/17/22 13:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/22 08:08	02/17/22 13:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/22 08:08	02/17/22 13:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130			02/17/22 08:08	02/17/22 13:19	1
o-Terphenyl (Surr)	119		70 - 130			02/17/22 08:08	02/17/22 13:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		4.99	mg/Kg			02/18/22 00:25	1

Client Sample ID: C-14 10'

Lab Sample ID: 880-11386-7

Date Collected: 02/16/22 10:12

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/17/22 09:02	02/18/22 06:46	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/17/22 09:02	02/18/22 06:46	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/17/22 09:02	02/18/22 06:46	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		02/17/22 09:02	02/18/22 06:46	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/17/22 09:02	02/18/22 06:46	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/17/22 09:02	02/18/22 06:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			02/17/22 09:02	02/18/22 06:46	1
1,4-Difluorobenzene (Surr)	107		70 - 130			02/17/22 09:02	02/18/22 06:46	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			02/17/22 21:03	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			02/18/22 08:59	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		02/17/22 08:08	02/17/22 13:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/17/22 08:08	02/17/22 13:39	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-14 10'

Lab Sample ID: 880-11386-7

Date Collected: 02/16/22 10:12

Matrix: Solid

Date Received: 02/16/22 16:18

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		02/17/22 08:08	02/17/22 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130			02/17/22 08:08	02/17/22 13:39	1
o-Terphenyl (Surr)	105		70 - 130			02/17/22 08:08	02/17/22 13:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.5		4.99	mg/Kg			02/18/22 00:31	1

Client Sample ID: C-14 11'

Lab Sample ID: 880-11386-8

Date Collected: 02/16/22 10:17

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/17/22 09:02	02/18/22 07:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/17/22 09:02	02/18/22 07:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/17/22 09:02	02/18/22 07:07	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		02/17/22 09:02	02/18/22 07:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/17/22 09:02	02/18/22 07:07	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/17/22 09:02	02/18/22 07:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			02/17/22 09:02	02/18/22 07:07	1
1,4-Difluorobenzene (Surr)	78		70 - 130			02/17/22 09:02	02/18/22 07:07	1

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			02/17/22 21:03	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			02/18/22 08:59	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		02/17/22 08:08	02/17/22 13:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/22 08:08	02/17/22 13:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/22 08:08	02/17/22 13:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			02/17/22 08:08	02/17/22 13:59	1
o-Terphenyl (Surr)	109		70 - 130			02/17/22 08:08	02/17/22 13:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224		5.01	mg/Kg			02/18/22 00:37	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-15 8'

Lab Sample ID: 880-11386-9

Date Collected: 02/16/22 10:45

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/17/22 08:00	02/17/22 12:21	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/17/22 08:00	02/17/22 12:21	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/17/22 08:00	02/17/22 12:21	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		02/17/22 08:00	02/17/22 12:21	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/17/22 08:00	02/17/22 12:21	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/17/22 08:00	02/17/22 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130	02/17/22 08:00	02/17/22 12:21	1
1,4-Difluorobenzene (Surr)	81		70 - 130	02/17/22 08:00	02/17/22 12:21	1

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			02/17/22 21:03	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			02/18/22 08:59	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 *1 F1 F2	50.0	mg/Kg		02/17/22 08:13	02/17/22 10:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/22 08:13	02/17/22 10:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/22 08:13	02/17/22 10:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	65	S1-	70 - 130	02/17/22 08:13	02/17/22 10:58	1
o-Terphenyl (Surr)	70		70 - 130	02/17/22 08:13	02/17/22 10:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		4.97	mg/Kg			02/18/22 00:44	1

Client Sample ID: C-15 9'

Lab Sample ID: 880-11386-10

Date Collected: 02/16/22 10:55

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/17/22 08:00	02/17/22 14:35	1
Toluene	0.00770		0.00200	mg/Kg		02/17/22 08:00	02/17/22 14:35	1
Ethylbenzene	0.0326		0.00200	mg/Kg		02/17/22 08:00	02/17/22 14:35	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/17/22 08:00	02/17/22 14:35	1
o-Xylene	0.0105		0.00200	mg/Kg		02/17/22 08:00	02/17/22 14:35	1
Xylenes, Total	0.0105		0.00400	mg/Kg		02/17/22 08:00	02/17/22 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	02/17/22 08:00	02/17/22 14:35	1
1,4-Difluorobenzene (Surr)	77		70 - 130	02/17/22 08:00	02/17/22 14:35	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-15 9'

Lab Sample ID: 880-11386-10

Date Collected: 02/16/22 10:55

Matrix: Solid

Date Received: 02/16/22 16:18

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0508		0.00400	mg/Kg			02/17/22 21:03	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			02/18/22 08:59	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 *1	49.9	mg/Kg		02/17/22 08:13	02/17/22 11:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/17/22 08:13	02/17/22 11:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/17/22 08:13	02/17/22 11:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	68	S1-	70 - 130			02/17/22 08:13	02/17/22 11:58	1
o-Terphenyl (Surr)	74		70 - 130			02/17/22 08:13	02/17/22 11:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.8		4.98	mg/Kg			02/18/22 00:50	1

Client Sample ID: C-15 10'

Lab Sample ID: 880-11386-11

Date Collected: 02/16/22 11:05

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/17/22 08:00	02/17/22 15:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/17/22 08:00	02/17/22 15:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/17/22 08:00	02/17/22 15:02	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/17/22 08:00	02/17/22 15:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/17/22 08:00	02/17/22 15:02	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/17/22 08:00	02/17/22 15:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130			02/17/22 08:00	02/17/22 15:02	1
1,4-Difluorobenzene (Surr)	93		70 - 130			02/17/22 08:00	02/17/22 15:02	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			02/17/22 21:03	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			02/18/22 08:59	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 *1	50.0	mg/Kg		02/17/22 08:13	02/17/22 12:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/22 08:13	02/17/22 12:18	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-15 10'

Lab Sample ID: 880-11386-11

Date Collected: 02/16/22 11:05

Matrix: Solid

Date Received: 02/16/22 16:18

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		02/17/22 08:13	02/17/22 12:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			02/17/22 08:13	02/17/22 12:18	1
o-Terphenyl (Surr)	85		70 - 130			02/17/22 08:13	02/17/22 12:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		4.95	mg/Kg			02/18/22 00:56	1

Client Sample ID: C-15 11'

Lab Sample ID: 880-11386-12

Date Collected: 02/16/22 11:08

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/17/22 08:00	02/17/22 15:29	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/17/22 08:00	02/17/22 15:29	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/17/22 08:00	02/17/22 15:29	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		02/17/22 08:00	02/17/22 15:29	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/17/22 08:00	02/17/22 15:29	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/17/22 08:00	02/17/22 15:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			02/17/22 08:00	02/17/22 15:29	1
1,4-Difluorobenzene (Surr)	85		70 - 130			02/17/22 08:00	02/17/22 15:29	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			02/17/22 21:03	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			02/18/22 08:59	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 *1	50.0	mg/Kg		02/17/22 08:13	02/17/22 12:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/22 08:13	02/17/22 12:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/22 08:13	02/17/22 12:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			02/17/22 08:13	02/17/22 12:39	1
o-Terphenyl (Surr)	86		70 - 130			02/17/22 08:13	02/17/22 12:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.7		5.00	mg/Kg			02/18/22 01:15	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-16 0-4.1

Lab Sample ID: 880-11386-13

Date Collected: 02/16/22 11:15

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/18/22 07:00	02/18/22 18:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/18/22 07:00	02/18/22 18:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/18/22 07:00	02/18/22 18:04	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/18/22 07:00	02/18/22 18:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/18/22 07:00	02/18/22 18:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/18/22 07:00	02/18/22 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	02/18/22 07:00	02/18/22 18:04	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/18/22 07:00	02/18/22 18:04	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			02/17/22 21:03	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			02/18/22 08:59	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 *1	50.0	mg/Kg		02/17/22 08:13	02/17/22 12:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/22 08:13	02/17/22 12:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/22 08:13	02/17/22 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	66	S1-	70 - 130	02/17/22 08:13	02/17/22 12:59	1
o-Terphenyl (Surr)	71		70 - 130	02/17/22 08:13	02/17/22 12:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.1		4.95	mg/Kg			02/18/22 01:22	1

Client Sample ID: C-16 4.1-8

Lab Sample ID: 880-11386-14

Date Collected: 02/16/22 11:25

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/18/22 07:00	02/18/22 18:24	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/18/22 07:00	02/18/22 18:24	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/18/22 07:00	02/18/22 18:24	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		02/18/22 07:00	02/18/22 18:24	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/18/22 07:00	02/18/22 18:24	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/18/22 07:00	02/18/22 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	02/18/22 07:00	02/18/22 18:24	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/18/22 07:00	02/18/22 18:24	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-16 4.1-8

Lab Sample ID: 880-11386-14

Date Collected: 02/16/22 11:25

Matrix: Solid

Date Received: 02/16/22 16:18

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			02/17/22 21:03	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			02/18/22 08:59	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 *1	49.9	mg/Kg		02/17/22 08:13	02/17/22 13:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/17/22 08:13	02/17/22 13:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/17/22 08:13	02/17/22 13:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	67	S1-	70 - 130			02/17/22 08:13	02/17/22 13:19	1
o-Terphenyl (Surr)	75		70 - 130			02/17/22 08:13	02/17/22 13:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		5.01	mg/Kg			02/18/22 01:41	1

Client Sample ID: C-17 0-4.1

Lab Sample ID: 880-11386-15

Date Collected: 02/16/22 11:30

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 07:00	02/18/22 18:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 07:00	02/18/22 18:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 07:00	02/18/22 18:44	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		02/18/22 07:00	02/18/22 18:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 07:00	02/18/22 18:44	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/18/22 07:00	02/18/22 18:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			02/18/22 07:00	02/18/22 18:44	1
1,4-Difluorobenzene (Surr)	97		70 - 130			02/18/22 07:00	02/18/22 18:44	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			02/17/22 21:03	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			02/18/22 08:59	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 *1	50.0	mg/Kg		02/17/22 08:13	02/17/22 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/22 08:13	02/17/22 13:39	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-17 0-4.1

Lab Sample ID: 880-11386-15

Date Collected: 02/16/22 11:30

Matrix: Solid

Date Received: 02/16/22 16:18

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		02/17/22 08:13	02/17/22 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	67	S1-	70 - 130			02/17/22 08:13	02/17/22 13:39	1
o-Terphenyl (Surr)	73		70 - 130			02/17/22 08:13	02/17/22 13:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.3		4.98	mg/Kg			02/18/22 01:48	1

Client Sample ID: C-17 4.1-8

Lab Sample ID: 880-11386-16

Date Collected: 02/16/22 11:34

Matrix: Solid

Date Received: 02/16/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/18/22 07:00	02/18/22 19:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/18/22 07:00	02/18/22 19:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/18/22 07:00	02/18/22 19:05	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/18/22 07:00	02/18/22 19:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/18/22 07:00	02/18/22 19:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/18/22 07:00	02/18/22 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130			02/18/22 07:00	02/18/22 19:05	1
1,4-Difluorobenzene (Surr)	94		70 - 130			02/18/22 07:00	02/18/22 19:05	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			02/17/22 21:03	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			02/18/22 08:59	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 *1	50.0	mg/Kg		02/17/22 08:13	02/17/22 13:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/22 08:13	02/17/22 13:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/22 08:13	02/17/22 13:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	65	S1-	70 - 130			02/17/22 08:13	02/17/22 13:59	1
o-Terphenyl (Surr)	71		70 - 130			02/17/22 08:13	02/17/22 13:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.1		4.99	mg/Kg			02/18/22 01:54	1

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
820-3423-A-1-C MSD	Matrix Spike Duplicate	121	108
820-3423-A-1-E MS	Matrix Spike	112	92
880-11386-1	C-1 12'	135 S1+	103
880-11386-2	C-1 13'	111	97
880-11386-3	C-2 12'	122	96
880-11386-4	C-2 13'	114	90
880-11386-5	C-14 8'	86	92
880-11386-6	C-14 9'	124	104
880-11386-7	C-14 10'	122	107
880-11386-8	C-14 11'	113	78
880-11386-9	C-15 8'	167 S1+	81
880-11386-9 MS	C-15 8'	124	97
880-11386-9 MSD	C-15 8'	133 S1+	91
880-11386-10	C-15 9'	105	77
880-11386-11	C-15 10'	156 S1+	93
880-11386-12	C-15 11'	131 S1+	85
880-11386-13	C-16 0-4.1	109	86
880-11386-14	C-16 4.1-8	143 S1+	101
880-11386-15	C-17 0-4.1	101	97
880-11386-16	C-17 4.1-8	144 S1+	94
880-11436-A-2-C MS	Matrix Spike	132 S1+	97
880-11436-A-2-D MSD	Matrix Spike Duplicate	155 S1+	44 S1-
LCS 880-19557/1-A	Lab Control Sample	122	95
LCS 880-19666/1-A	Lab Control Sample	117	101
LCS 880-19696/1-A	Lab Control Sample	112	99
LCSD 880-19557/2-A	Lab Control Sample Dup	120	78
LCSD 880-19666/2-A	Lab Control Sample Dup	120	108
LCSD 880-19696/2-A	Lab Control Sample Dup	113	91
MB 880-19557/5-A	Method Blank	99	79
MB 880-19658/5-A	Method Blank	128	97
MB 880-19666/5-A	Method Blank	117	97
MB 880-19696/5-A	Method Blank	116	89

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	OTPH1
		(70-130)	(70-130)
880-11386-1	C-1 12'	109	125
880-11386-1 MS	C-1 12'	105	107
880-11386-1 MSD	C-1 12'	88	95
880-11386-2	C-1 13'	100	112
880-11386-3	C-2 12'	95	107
880-11386-4	C-2 13'	113	128
880-11386-5	C-14 8'	109	128

Eurofins Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-11386-1

Project/Site: Cotton Draw TB

SDG: 22-0105-05

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)
880-11386-6	C-14 9'	106	119
880-11386-7	C-14 10'	93	105
880-11386-8	C-14 11'	94	109
880-11386-9	C-15 8'	65 S1-	70
880-11386-9 MS	C-15 8'	66 S1-	61 S1-
880-11386-9 MSD	C-15 8'	66 S1-	60 S1-
880-11386-10	C-15 9'	68 S1-	74
880-11386-11	C-15 10'	77	85
880-11386-12	C-15 11'	78	86
880-11386-13	C-16 0-4.1	66 S1-	71
880-11386-14	C-16 4.1-8	67 S1-	75
880-11386-15	C-17 0-4.1	67 S1-	73
880-11386-16	C-17 4.1-8	65 S1-	71
LCS 880-19655/2-A	Lab Control Sample	110	124
LCS 880-19656/2-A	Lab Control Sample	108	109
LCSD 880-19655/3-A	Lab Control Sample Dup	114	127
LCSD 880-19656/3-A	Lab Control Sample Dup	106	105
MB 880-19655/1-A	Method Blank	110	133 S1+
MB 880-19656/1-A	Method Blank	73	81

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-19557/5-A

Matrix: Solid

Analysis Batch: 19654

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19557

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/17/22 08:00	02/17/22 11:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/17/22 08:00	02/17/22 11:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/17/22 08:00	02/17/22 11:55	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/17/22 08:00	02/17/22 11:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/17/22 08:00	02/17/22 11:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/17/22 08:00	02/17/22 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	02/17/22 08:00	02/17/22 11:55	1
1,4-Difluorobenzene (Surr)	79		70 - 130	02/17/22 08:00	02/17/22 11:55	1

Lab Sample ID: LCS 880-19557/1-A

Matrix: Solid

Analysis Batch: 19654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09985		mg/Kg		100	70 - 130
Toluene	0.100	0.1030		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1034		mg/Kg		103	70 - 130
m,p-Xylenes	0.200	0.2192		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1125		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-19557/2-A

Matrix: Solid

Analysis Batch: 19654

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19557

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09609		mg/Kg		96	70 - 130	4	35
Toluene	0.100	0.09313		mg/Kg		93	70 - 130	10	35
Ethylbenzene	0.100	0.09581		mg/Kg		96	70 - 130	8	35
m,p-Xylenes	0.200	0.2014		mg/Kg		101	70 - 130	8	35
o-Xylene	0.100	0.1033		mg/Kg		103	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: 880-11386-9 MS

Matrix: Solid

Analysis Batch: 19654

Client Sample ID: C-15 8'

Prep Type: Total/NA

Prep Batch: 19557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U	0.100	0.09492		mg/Kg		95	70 - 130
Toluene	<0.00198	U	0.100	0.08886		mg/Kg		89	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-11386-9 MS

Matrix: Solid

Analysis Batch: 19654

Client Sample ID: C-15 8'

Prep Type: Total/NA

Prep Batch: 19557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U	0.100	0.09004		mg/Kg		90	70 - 130
m,p-Xylenes	<0.00397	U	0.201	0.1888		mg/Kg		94	70 - 130
o-Xylene	<0.00198	U	0.100	0.09841		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-11386-9 MSD

Matrix: Solid

Analysis Batch: 19654

Client Sample ID: C-15 8'

Prep Type: Total/NA

Prep Batch: 19557

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.101	0.09055		mg/Kg		90	70 - 130	5	35
Toluene	<0.00198	U	0.101	0.09669		mg/Kg		96	70 - 130	8	35
Ethylbenzene	<0.00198	U	0.101	0.09666		mg/Kg		96	70 - 130	7	35
m,p-Xylenes	<0.00397	U	0.201	0.2042		mg/Kg		101	70 - 130	8	35
o-Xylene	<0.00198	U	0.101	0.1038		mg/Kg		103	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: MB 880-19658/5-A

Matrix: Solid

Analysis Batch: 19659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19658

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/17/22 08:20	02/17/22 11:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/17/22 08:20	02/17/22 11:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/17/22 08:20	02/17/22 11:45	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/17/22 08:20	02/17/22 11:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/17/22 08:20	02/17/22 11:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/17/22 08:20	02/17/22 11:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	02/17/22 08:20	02/17/22 11:45	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/17/22 08:20	02/17/22 11:45	1

Lab Sample ID: MB 880-19666/5-A

Matrix: Solid

Analysis Batch: 19659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19666

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/17/22 23:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/17/22 23:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/17/22 23:21	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/17/22 09:02	02/17/22 23:21	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-19666/5-A

Matrix: Solid

Analysis Batch: 19659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19666

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/17/22 09:02	02/17/22 23:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/17/22 09:02	02/17/22 23:21	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			02/17/22 09:02	02/17/22 23:21	1
1,4-Difluorobenzene (Surr)	97		70 - 130			02/17/22 09:02	02/17/22 23:21	1

Lab Sample ID: LCS 880-19666/1-A

Matrix: Solid

Analysis Batch: 19659

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08530		mg/Kg		85	70 - 130
Toluene	0.100	0.08771		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09755		mg/Kg		98	70 - 130
m,p-Xylenes	0.200	0.1823		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09789		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	117		70 - 130				
1,4-Difluorobenzene (Surr)	101		70 - 130				

Lab Sample ID: LCSD 880-19666/2-A

Matrix: Solid

Analysis Batch: 19659

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19666

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08616		mg/Kg		86	70 - 130	1	35
Toluene	0.100	0.08753		mg/Kg		88	70 - 130	0	35
Ethylbenzene	0.100	0.09740		mg/Kg		97	70 - 130	0	35
m,p-Xylenes	0.200	0.1866		mg/Kg		93	70 - 130	2	35
o-Xylene	0.100	0.09535		mg/Kg		95	70 - 130	3	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	120		70 - 130						
1,4-Difluorobenzene (Surr)	108		70 - 130						

Lab Sample ID: 820-3423-A-1-C MSD

Matrix: Solid

Analysis Batch: 19659

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19666

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.08311		mg/Kg		83	70 - 130	12	35
Toluene	<0.00199	U	0.0996	0.08362		mg/Kg		84	70 - 130	14	35
Ethylbenzene	<0.00199	U	0.0996	0.09494		mg/Kg		95	70 - 130	17	35
m,p-Xylenes	<0.00398	U	0.199	0.1745		mg/Kg		88	70 - 130	11	35
o-Xylene	<0.00199	U	0.0996	0.08224		mg/Kg		83	70 - 130	7	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 820-3423-A-1-C MSD

Matrix: Solid

Analysis Batch: 19659

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19666

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 820-3423-A-1-E MS

Matrix: Solid

Analysis Batch: 19659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19666

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.07340		mg/Kg		73	70 - 130	
Toluene	<0.00199	U	0.101	0.07237		mg/Kg		72	70 - 130	
Ethylbenzene	<0.00199	U	0.101	0.08037		mg/Kg		80	70 - 130	
m,p-Xylenes	<0.00398	U	0.202	0.1562		mg/Kg		77	70 - 130	
o-Xylene	<0.00199	U	0.101	0.07671		mg/Kg		76	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-19696/5-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19696

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		02/18/22 07:00	02/18/22 12:41	1	
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 07:00	02/18/22 12:41	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 07:00	02/18/22 12:41	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/18/22 07:00	02/18/22 12:41	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 07:00	02/18/22 12:41	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/18/22 07:00	02/18/22 12:41	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	116		70 - 130	02/18/22 07:00	02/18/22 12:41	1			
1,4-Difluorobenzene (Surr)	89		70 - 130	02/18/22 07:00	02/18/22 12:41	1			

Lab Sample ID: LCS 880-19696/1-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19696

	Spike	LCS	LCS						%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.09002		mg/Kg		90	70 - 130			
Toluene	0.100	0.09048		mg/Kg		90	70 - 130			
Ethylbenzene	0.100	0.1034		mg/Kg		103	70 - 130			
m,p-Xylenes	0.200	0.1884		mg/Kg		94	70 - 130			
o-Xylene	0.100	0.09890		mg/Kg		99	70 - 130			

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-19696/1-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19696

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-19696/2-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08948		mg/Kg		89	70 - 130	1	35
Toluene	0.100	0.09333		mg/Kg		93	70 - 130	3	35
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130	1	35
m,p-Xylenes	0.200	0.1926		mg/Kg		96	70 - 130	2	35
o-Xylene	0.100	0.09354		mg/Kg		94	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-11436-A-2-C MS

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.101	0.07205		mg/Kg		71	70 - 130
Toluene	<0.00199	U F1 F2	0.101	0.07874		mg/Kg		78	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.09275		mg/Kg		92	70 - 130
m,p-Xylenes	<0.00398	U F1 F2	0.202	0.1741		mg/Kg		86	70 - 130
o-Xylene	<0.00199	U F1 F2	0.101	0.09651		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-11436-A-2-D MSD

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08192		mg/Kg		82	70 - 130	13	35
Toluene	<0.00199	U F1 F2	0.100	0.04688	F1 F2	mg/Kg		47	70 - 130	51	35
Ethylbenzene	<0.00199	U	0.100	0.08108		mg/Kg		81	70 - 130	13	35
m,p-Xylenes	<0.00398	U F1 F2	0.200	0.1063	F1 F2	mg/Kg		53	70 - 130	48	35
o-Xylene	<0.00199	U F1 F2	0.100	0.2186	F1 F2	mg/Kg		219	70 - 130	77	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130
1,4-Difluorobenzene (Surr)	44	S1-	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

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

Lab Sample ID: MB 880-19655/1-A

Matrix: Solid

Analysis Batch: 19670

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19655

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		02/17/22 08:08	02/17/22 09:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/22 08:08	02/17/22 09:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/22 08:08	02/17/22 09:55	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			02/17/22 08:08	02/17/22 09:55	1
o-Terphenyl (Surr)	133	S1+	70 - 130			02/17/22 08:08	02/17/22 09:55	1

Lab Sample ID: LCS 880-19655/2-A

Matrix: Solid

Analysis Batch: 19670

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1054		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1104		mg/Kg		110	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	110		70 - 130				
o-Terphenyl (Surr)	124		70 - 130				

Lab Sample ID: LCSD 880-19655/3-A

Matrix: Solid

Analysis Batch: 19670

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19655

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	907.6		mg/Kg		91	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	1000	1044		mg/Kg		104	70 - 130	6	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	114		70 - 130						
o-Terphenyl (Surr)	127		70 - 130						

Lab Sample ID: 880-11386-1 MS

Matrix: Solid

Analysis Batch: 19670

Client Sample ID: C-1 12'

Prep Type: Total/NA

Prep Batch: 19655

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	1279		mg/Kg		124	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1275		mg/Kg		126	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

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

Lab Sample ID: 880-11386-1 MS

Matrix: Solid

Analysis Batch: 19670

Client Sample ID: C-1 12'

Prep Type: Total/NA

Prep Batch: 19655

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	105		70 - 130
o-Terphenyl (Surr)	107		70 - 130

Lab Sample ID: 880-11386-1 MSD

Matrix: Solid

Analysis Batch: 19670

Client Sample ID: C-1 12'

Prep Type: Total/NA

Prep Batch: 19655

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	1011	F2	mg/Kg		97	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1108		mg/Kg		109	70 - 130	14	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	95		70 - 130

Lab Sample ID: MB 880-19656/1-A

Matrix: Solid

Analysis Batch: 19672

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19656

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		02/17/22 08:13	02/17/22 09:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/22 08:13	02/17/22 09:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/22 08:13	02/17/22 09:55	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	73		70 - 130	02/17/22 08:13	02/17/22 09:55	1
o-Terphenyl (Surr)	81		70 - 130	02/17/22 08:13	02/17/22 09:55	1

Lab Sample ID: LCS 880-19656/2-A

Matrix: Solid

Analysis Batch: 19672

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1296		mg/Kg		130	70 - 130
Diesel Range Organics (Over C10-C28)	1000	974.5		mg/Kg		97	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	109		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

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

Lab Sample ID: LCSD 880-19656/3-A

Matrix: Solid

Analysis Batch: 19672

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19656

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	925.5	*1	mg/Kg		93	70 - 130	33	20
Diesel Range Organics (Over C10-C28)	1000	937.1		mg/Kg		94	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	106		70 - 130						
o-Terphenyl (Surr)	105		70 - 130						

Lab Sample ID: 880-11386-9 MS

Matrix: Solid

Analysis Batch: 19672

Client Sample ID: C-15 8'

Prep Type: Total/NA

Prep Batch: 19656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1 F1	1000	952.4		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	837.4		mg/Kg		81	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	66	S1-	70 - 130								
o-Terphenyl (Surr)	61	S1-	70 - 130								

Lab Sample ID: 880-11386-9 MSD

Matrix: Solid

Analysis Batch: 19672

Client Sample ID: C-15 8'

Prep Type: Total/NA

Prep Batch: 19656

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 *1 F1	998	1321	F1 F2	mg/Kg		132	70 - 130	32	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	866.5		mg/Kg		84	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	66	S1-	70 - 130								
o-Terphenyl (Surr)	60	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19645/1-A

Matrix: Solid

Analysis Batch: 19682

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			02/17/22 23:09	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-19645/2-A
Matrix: Solid
Analysis Batch: 19682

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 880-19645/3-A
Matrix: Solid
Analysis Batch: 19682

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	263.9		mg/Kg		106	90 - 110	2	20

Lab Sample ID: 880-11386-1 MS
Matrix: Solid
Analysis Batch: 19682

Client Sample ID: C-1 12'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3730		2490	6373		mg/Kg		106	90 - 110

Lab Sample ID: 880-11386-1 MSD
Matrix: Solid
Analysis Batch: 19682

Client Sample ID: C-1 12'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3730		2490	6354		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-11386-11 MS
Matrix: Solid
Analysis Batch: 19682

Client Sample ID: C-15 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	11.4		248	274.9		mg/Kg		106	90 - 110

Lab Sample ID: 880-11386-11 MSD
Matrix: Solid
Analysis Batch: 19682

Client Sample ID: C-15 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	11.4		248	241.1		mg/Kg		93	90 - 110	13	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

GC VOA

Prep Batch: 19557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-9	C-15 8'	Total/NA	Solid	5035	
880-11386-10	C-15 9'	Total/NA	Solid	5035	
880-11386-11	C-15 10'	Total/NA	Solid	5035	
880-11386-12	C-15 11'	Total/NA	Solid	5035	
MB 880-19557/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19557/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19557/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11386-9 MS	C-15 8'	Total/NA	Solid	5035	
880-11386-9 MSD	C-15 8'	Total/NA	Solid	5035	

Analysis Batch: 19654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-9	C-15 8'	Total/NA	Solid	8021B	19557
880-11386-10	C-15 9'	Total/NA	Solid	8021B	19557
880-11386-11	C-15 10'	Total/NA	Solid	8021B	19557
880-11386-12	C-15 11'	Total/NA	Solid	8021B	19557
MB 880-19557/5-A	Method Blank	Total/NA	Solid	8021B	19557
LCS 880-19557/1-A	Lab Control Sample	Total/NA	Solid	8021B	19557
LCSD 880-19557/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19557
880-11386-9 MS	C-15 8'	Total/NA	Solid	8021B	19557
880-11386-9 MSD	C-15 8'	Total/NA	Solid	8021B	19557

Prep Batch: 19658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19658/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 19659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-1	C-1 12'	Total/NA	Solid	8021B	19666
880-11386-2	C-1 13'	Total/NA	Solid	8021B	19666
880-11386-3	C-2 12'	Total/NA	Solid	8021B	19666
880-11386-4	C-2 13'	Total/NA	Solid	8021B	19666
880-11386-5	C-14 8'	Total/NA	Solid	8021B	19666
880-11386-6	C-14 9'	Total/NA	Solid	8021B	19666
880-11386-7	C-14 10'	Total/NA	Solid	8021B	19666
880-11386-8	C-14 11'	Total/NA	Solid	8021B	19666
MB 880-19658/5-A	Method Blank	Total/NA	Solid	8021B	19658
MB 880-19666/5-A	Method Blank	Total/NA	Solid	8021B	19666
LCS 880-19666/1-A	Lab Control Sample	Total/NA	Solid	8021B	19666
LCSD 880-19666/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19666
820-3423-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	19666
820-3423-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	19666

Prep Batch: 19666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-1	C-1 12'	Total/NA	Solid	5035	
880-11386-2	C-1 13'	Total/NA	Solid	5035	
880-11386-3	C-2 12'	Total/NA	Solid	5035	
880-11386-4	C-2 13'	Total/NA	Solid	5035	
880-11386-5	C-14 8'	Total/NA	Solid	5035	
880-11386-6	C-14 9'	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

GC VOA (Continued)

Prep Batch: 19666 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-7	C-14 10'	Total/NA	Solid	5035	
880-11386-8	C-14 11'	Total/NA	Solid	5035	
MB 880-19666/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19666/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19666/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-3423-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
820-3423-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	

Prep Batch: 19696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-13	C-16 0-4.1	Total/NA	Solid	5035	
880-11386-14	C-16 4.1-8	Total/NA	Solid	5035	
880-11386-15	C-17 0-4.1	Total/NA	Solid	5035	
880-11386-16	C-17 4.1-8	Total/NA	Solid	5035	
MB 880-19696/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19696/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19696/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11436-A-2-C MS	Matrix Spike	Total/NA	Solid	5035	
880-11436-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 19757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-1	C-1 12'	Total/NA	Solid	Total BTEX	
880-11386-2	C-1 13'	Total/NA	Solid	Total BTEX	
880-11386-3	C-2 12'	Total/NA	Solid	Total BTEX	
880-11386-4	C-2 13'	Total/NA	Solid	Total BTEX	
880-11386-5	C-14 8'	Total/NA	Solid	Total BTEX	
880-11386-6	C-14 9'	Total/NA	Solid	Total BTEX	
880-11386-7	C-14 10'	Total/NA	Solid	Total BTEX	
880-11386-8	C-14 11'	Total/NA	Solid	Total BTEX	
880-11386-9	C-15 8'	Total/NA	Solid	Total BTEX	
880-11386-10	C-15 9'	Total/NA	Solid	Total BTEX	
880-11386-11	C-15 10'	Total/NA	Solid	Total BTEX	
880-11386-12	C-15 11'	Total/NA	Solid	Total BTEX	
880-11386-13	C-16 0-4.1	Total/NA	Solid	Total BTEX	
880-11386-14	C-16 4.1-8	Total/NA	Solid	Total BTEX	
880-11386-15	C-17 0-4.1	Total/NA	Solid	Total BTEX	
880-11386-16	C-17 4.1-8	Total/NA	Solid	Total BTEX	

Analysis Batch: 19783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-13	C-16 0-4.1	Total/NA	Solid	8021B	19696
880-11386-14	C-16 4.1-8	Total/NA	Solid	8021B	19696
880-11386-15	C-17 0-4.1	Total/NA	Solid	8021B	19696
880-11386-16	C-17 4.1-8	Total/NA	Solid	8021B	19696
MB 880-19696/5-A	Method Blank	Total/NA	Solid	8021B	19696
LCS 880-19696/1-A	Lab Control Sample	Total/NA	Solid	8021B	19696
LCSD 880-19696/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19696
880-11436-A-2-C MS	Matrix Spike	Total/NA	Solid	8021B	19696
880-11436-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	19696

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

GC Semi VOA

Prep Batch: 19655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-1	C-1 12'	Total/NA	Solid	8015NM Prep	
880-11386-2	C-1 13'	Total/NA	Solid	8015NM Prep	
880-11386-3	C-2 12'	Total/NA	Solid	8015NM Prep	
880-11386-4	C-2 13'	Total/NA	Solid	8015NM Prep	
880-11386-5	C-14 8'	Total/NA	Solid	8015NM Prep	
880-11386-6	C-14 9'	Total/NA	Solid	8015NM Prep	
880-11386-7	C-14 10'	Total/NA	Solid	8015NM Prep	
880-11386-8	C-14 11'	Total/NA	Solid	8015NM Prep	
MB 880-19655/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19655/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19655/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11386-1 MS	C-1 12'	Total/NA	Solid	8015NM Prep	
880-11386-1 MSD	C-1 12'	Total/NA	Solid	8015NM Prep	

Prep Batch: 19656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-9	C-15 8'	Total/NA	Solid	8015NM Prep	
880-11386-10	C-15 9'	Total/NA	Solid	8015NM Prep	
880-11386-11	C-15 10'	Total/NA	Solid	8015NM Prep	
880-11386-12	C-15 11'	Total/NA	Solid	8015NM Prep	
880-11386-13	C-16 0-4.1	Total/NA	Solid	8015NM Prep	
880-11386-14	C-16 4.1-8	Total/NA	Solid	8015NM Prep	
880-11386-15	C-17 0-4.1	Total/NA	Solid	8015NM Prep	
880-11386-16	C-17 4.1-8	Total/NA	Solid	8015NM Prep	
MB 880-19656/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19656/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19656/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11386-9 MS	C-15 8'	Total/NA	Solid	8015NM Prep	
880-11386-9 MSD	C-15 8'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 19670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-1	C-1 12'	Total/NA	Solid	8015B NM	19655
880-11386-2	C-1 13'	Total/NA	Solid	8015B NM	19655
880-11386-3	C-2 12'	Total/NA	Solid	8015B NM	19655
880-11386-4	C-2 13'	Total/NA	Solid	8015B NM	19655
880-11386-5	C-14 8'	Total/NA	Solid	8015B NM	19655
880-11386-6	C-14 9'	Total/NA	Solid	8015B NM	19655
880-11386-7	C-14 10'	Total/NA	Solid	8015B NM	19655
880-11386-8	C-14 11'	Total/NA	Solid	8015B NM	19655
MB 880-19655/1-A	Method Blank	Total/NA	Solid	8015B NM	19655
LCS 880-19655/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19655
LCSD 880-19655/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19655
880-11386-1 MS	C-1 12'	Total/NA	Solid	8015B NM	19655
880-11386-1 MSD	C-1 12'	Total/NA	Solid	8015B NM	19655

Analysis Batch: 19672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-9	C-15 8'	Total/NA	Solid	8015B NM	19656
880-11386-10	C-15 9'	Total/NA	Solid	8015B NM	19656
880-11386-11	C-15 10'	Total/NA	Solid	8015B NM	19656

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

GC Semi VOA (Continued)

Analysis Batch: 19672 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-12	C-15 11'	Total/NA	Solid	8015B NM	19656
880-11386-13	C-16 0-4.1	Total/NA	Solid	8015B NM	19656
880-11386-14	C-16 4.1-8	Total/NA	Solid	8015B NM	19656
880-11386-15	C-17 0-4.1	Total/NA	Solid	8015B NM	19656
880-11386-16	C-17 4.1-8	Total/NA	Solid	8015B NM	19656
MB 880-19656/1-A	Method Blank	Total/NA	Solid	8015B NM	19656
LCS 880-19656/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19656
LCSD 880-19656/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19656
880-11386-9 MS	C-15 8'	Total/NA	Solid	8015B NM	19656
880-11386-9 MSD	C-15 8'	Total/NA	Solid	8015B NM	19656

Analysis Batch: 19789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-1	C-1 12'	Total/NA	Solid	8015 NM	
880-11386-2	C-1 13'	Total/NA	Solid	8015 NM	
880-11386-3	C-2 12'	Total/NA	Solid	8015 NM	
880-11386-4	C-2 13'	Total/NA	Solid	8015 NM	
880-11386-5	C-14 8'	Total/NA	Solid	8015 NM	
880-11386-6	C-14 9'	Total/NA	Solid	8015 NM	
880-11386-7	C-14 10'	Total/NA	Solid	8015 NM	
880-11386-8	C-14 11'	Total/NA	Solid	8015 NM	
880-11386-9	C-15 8'	Total/NA	Solid	8015 NM	
880-11386-10	C-15 9'	Total/NA	Solid	8015 NM	
880-11386-11	C-15 10'	Total/NA	Solid	8015 NM	
880-11386-12	C-15 11'	Total/NA	Solid	8015 NM	
880-11386-13	C-16 0-4.1	Total/NA	Solid	8015 NM	
880-11386-14	C-16 4.1-8	Total/NA	Solid	8015 NM	
880-11386-15	C-17 0-4.1	Total/NA	Solid	8015 NM	
880-11386-16	C-17 4.1-8	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 19645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-1	C-1 12'	Soluble	Solid	DI Leach	
880-11386-2	C-1 13'	Soluble	Solid	DI Leach	
880-11386-3	C-2 12'	Soluble	Solid	DI Leach	
880-11386-4	C-2 13'	Soluble	Solid	DI Leach	
880-11386-5	C-14 8'	Soluble	Solid	DI Leach	
880-11386-6	C-14 9'	Soluble	Solid	DI Leach	
880-11386-7	C-14 10'	Soluble	Solid	DI Leach	
880-11386-8	C-14 11'	Soluble	Solid	DI Leach	
880-11386-9	C-15 8'	Soluble	Solid	DI Leach	
880-11386-10	C-15 9'	Soluble	Solid	DI Leach	
880-11386-11	C-15 10'	Soluble	Solid	DI Leach	
880-11386-12	C-15 11'	Soluble	Solid	DI Leach	
880-11386-13	C-16 0-4.1	Soluble	Solid	DI Leach	
880-11386-14	C-16 4.1-8	Soluble	Solid	DI Leach	
880-11386-15	C-17 0-4.1	Soluble	Solid	DI Leach	
880-11386-16	C-17 4.1-8	Soluble	Solid	DI Leach	
MB 880-19645/1-A	Method Blank	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

HPLC/IC (Continued)

Leach Batch: 19645 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-19645/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19645/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11386-1 MS	C-1 12'	Soluble	Solid	DI Leach	
880-11386-1 MSD	C-1 12'	Soluble	Solid	DI Leach	
880-11386-11 MS	C-15 10'	Soluble	Solid	DI Leach	
880-11386-11 MSD	C-15 10'	Soluble	Solid	DI Leach	

Analysis Batch: 19682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11386-1	C-1 12'	Soluble	Solid	300.0	19645
880-11386-2	C-1 13'	Soluble	Solid	300.0	19645
880-11386-3	C-2 12'	Soluble	Solid	300.0	19645
880-11386-4	C-2 13'	Soluble	Solid	300.0	19645
880-11386-5	C-14 8'	Soluble	Solid	300.0	19645
880-11386-6	C-14 9'	Soluble	Solid	300.0	19645
880-11386-7	C-14 10'	Soluble	Solid	300.0	19645
880-11386-8	C-14 11'	Soluble	Solid	300.0	19645
880-11386-9	C-15 8'	Soluble	Solid	300.0	19645
880-11386-10	C-15 9'	Soluble	Solid	300.0	19645
880-11386-11	C-15 10'	Soluble	Solid	300.0	19645
880-11386-12	C-15 11'	Soluble	Solid	300.0	19645
880-11386-13	C-16 0-4.1	Soluble	Solid	300.0	19645
880-11386-14	C-16 4.1-8	Soluble	Solid	300.0	19645
880-11386-15	C-17 0-4.1	Soluble	Solid	300.0	19645
880-11386-16	C-17 4.1-8	Soluble	Solid	300.0	19645
MB 880-19645/1-A	Method Blank	Soluble	Solid	300.0	19645
LCS 880-19645/2-A	Lab Control Sample	Soluble	Solid	300.0	19645
LCSD 880-19645/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19645
880-11386-1 MS	C-1 12'	Soluble	Solid	300.0	19645
880-11386-1 MSD	C-1 12'	Soluble	Solid	300.0	19645
880-11386-11 MS	C-15 10'	Soluble	Solid	300.0	19645
880-11386-11 MSD	C-15 10'	Soluble	Solid	300.0	19645

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-1 12'

Lab Sample ID: 880-11386-1

Date Collected: 02/16/22 10:00

Matrix: Solid

Date Received: 02/16/22 16:18

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	19666	02/17/22 09:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19659	02/18/22 04:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19655	02/17/22 08:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19670	02/17/22 10:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19645	02/16/22 17:00	CH	XEN MID
Soluble	Analysis	300.0		10			19682	02/17/22 23:28	CH	XEN MID

Client Sample ID: C-1 13'

Lab Sample ID: 880-11386-2

Date Collected: 02/16/22 10:05

Matrix: Solid

Date Received: 02/16/22 16:18

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	19666	02/17/22 09:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19659	02/18/22 05:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19655	02/17/22 08:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19670	02/17/22 11:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19645	02/16/22 17:00	CH	XEN MID
Soluble	Analysis	300.0		5			19682	02/17/22 23:47	CH	XEN MID

Client Sample ID: C-2 12'

Lab Sample ID: 880-11386-3

Date Collected: 02/16/22 10:10

Matrix: Solid

Date Received: 02/16/22 16:18

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	19666	02/17/22 09:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19659	02/18/22 05:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19655	02/17/22 08:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19670	02/17/22 12:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19645	02/16/22 17:00	CH	XEN MID
Soluble	Analysis	300.0		10			19682	02/17/22 23:53	CH	XEN MID

Client Sample ID: C-2 13'

Lab Sample ID: 880-11386-4

Date Collected: 02/16/22 10:15

Matrix: Solid

Date Received: 02/16/22 16:18

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	19666	02/17/22 09:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19659	02/18/22 05:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-2 13'

Lab Sample ID: 880-11386-4

Date Collected: 02/16/22 10:15

Matrix: Solid

Date Received: 02/16/22 16:18

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			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19655	02/17/22 08:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19670	02/17/22 12:39	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19645	02/16/22 17:00	CH	XEN MID
Soluble	Analysis	300.0		10			19682	02/17/22 23:59	CH	XEN MID

Client Sample ID: C-14 8'

Lab Sample ID: 880-11386-5

Date Collected: 02/16/22 10:02

Matrix: Solid

Date Received: 02/16/22 16:18

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	19666	02/17/22 09:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19659	02/18/22 06:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19655	02/17/22 08:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19670	02/17/22 12:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	19645	02/16/22 17:00	CH	XEN MID
Soluble	Analysis	300.0		1			19682	02/18/22 00:06	CH	XEN MID

Client Sample ID: C-14 9'

Lab Sample ID: 880-11386-6

Date Collected: 02/16/22 10:07

Matrix: Solid

Date Received: 02/16/22 16:18

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	19666	02/17/22 09:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19659	02/18/22 06:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19655	02/17/22 08:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19670	02/17/22 13:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19645	02/16/22 17:00	CH	XEN MID
Soluble	Analysis	300.0		1			19682	02/18/22 00:25	CH	XEN MID

Client Sample ID: C-14 10'

Lab Sample ID: 880-11386-7

Date Collected: 02/16/22 10:12

Matrix: Solid

Date Received: 02/16/22 16:18

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	19666	02/17/22 09:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19659	02/18/22 06:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19655	02/17/22 08:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19670	02/17/22 13:39	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-14 10'

Lab Sample ID: 880-11386-7

Date Collected: 02/16/22 10:12

Matrix: Solid

Date Received: 02/16/22 16:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	19645	02/16/22 17:00	CH	XEN MID
Soluble	Analysis	300.0		1			19682	02/18/22 00:31	CH	XEN MID

Client Sample ID: C-14 11'

Lab Sample ID: 880-11386-8

Date Collected: 02/16/22 10:17

Matrix: Solid

Date Received: 02/16/22 16:18

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	19666	02/17/22 09:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19659	02/18/22 07:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19655	02/17/22 08:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19670	02/17/22 13:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	19645	02/16/22 17:00	CH	XEN MID
Soluble	Analysis	300.0		1			19682	02/18/22 00:37	CH	XEN MID

Client Sample ID: C-15 8'

Lab Sample ID: 880-11386-9

Date Collected: 02/16/22 10:45

Matrix: Solid

Date Received: 02/16/22 16:18

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	19557	02/17/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19654	02/17/22 12:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19656	02/17/22 08:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19672	02/17/22 10:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19645	02/16/22 17:00	CH	XEN MID
Soluble	Analysis	300.0		1			19682	02/18/22 00:44	CH	XEN MID

Client Sample ID: C-15 9'

Lab Sample ID: 880-11386-10

Date Collected: 02/16/22 10:55

Matrix: Solid

Date Received: 02/16/22 16:18

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	19557	02/17/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19654	02/17/22 14:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19656	02/17/22 08:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19672	02/17/22 11:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19645	02/16/22 17:00	CH	XEN MID
Soluble	Analysis	300.0		1			19682	02/18/22 00:50	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-15 10'

Lab Sample ID: 880-11386-11

Date Collected: 02/16/22 11:05

Matrix: Solid

Date Received: 02/16/22 16:18

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	19557	02/17/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19654	02/17/22 15:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19656	02/17/22 08:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19672	02/17/22 12:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19645	02/16/22 17:00	CH	XEN MID
Soluble	Analysis	300.0		1			19682	02/18/22 00:56	CH	XEN MID

Client Sample ID: C-15 11'

Lab Sample ID: 880-11386-12

Date Collected: 02/16/22 11:08

Matrix: Solid

Date Received: 02/16/22 16:18

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	19557	02/17/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19654	02/17/22 15:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19656	02/17/22 08:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19672	02/17/22 12:39	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19645	02/16/22 17:00	CH	XEN MID
Soluble	Analysis	300.0		1			19682	02/18/22 01:15	CH	XEN MID

Client Sample ID: C-16 0-4.1

Lab Sample ID: 880-11386-13

Date Collected: 02/16/22 11:15

Matrix: Solid

Date Received: 02/16/22 16:18

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	19696	02/18/22 07:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19783	02/18/22 18:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19656	02/17/22 08:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19672	02/17/22 12:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19645	02/16/22 17:00	CH	XEN MID
Soluble	Analysis	300.0		1			19682	02/18/22 01:22	CH	XEN MID

Client Sample ID: C-16 4.1-8

Lab Sample ID: 880-11386-14

Date Collected: 02/16/22 11:25

Matrix: Solid

Date Received: 02/16/22 16:18

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	19696	02/18/22 07:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19783	02/18/22 18:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Client Sample ID: C-16 4.1-8

Lab Sample ID: 880-11386-14

Date Collected: 02/16/22 11:25

Matrix: Solid

Date Received: 02/16/22 16:18

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			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19656	02/17/22 08:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19672	02/17/22 13:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	19645	02/16/22 17:01	CH	XEN MID
Soluble	Analysis	300.0		1			19682	02/18/22 01:41	CH	XEN MID

Client Sample ID: C-17 0-4.1

Lab Sample ID: 880-11386-15

Date Collected: 02/16/22 11:30

Matrix: Solid

Date Received: 02/16/22 16:18

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	19696	02/18/22 07:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19783	02/18/22 18:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19656	02/17/22 08:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19672	02/17/22 13:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19645	02/16/22 17:01	CH	XEN MID
Soluble	Analysis	300.0		1			19682	02/18/22 01:48	CH	XEN MID

Client Sample ID: C-17 4.1-8

Lab Sample ID: 880-11386-16

Date Collected: 02/16/22 11:34

Matrix: Solid

Date Received: 02/16/22 16:18

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	19696	02/18/22 07:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19783	02/18/22 19:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19757	02/17/22 21:03	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19789	02/18/22 08:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19656	02/17/22 08:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19672	02/17/22 13:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19645	02/16/22 17:01	CH	XEN MID
Soluble	Analysis	300.0		1			19682	02/18/22 01:54	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

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: Cotton Draw TB

Job ID: 880-11386-1
SDG: 22-0105-05

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-11386-1	C-1 12'	Solid	02/16/22 10:00	02/16/22 16:18
880-11386-2	C-1 13'	Solid	02/16/22 10:05	02/16/22 16:18
880-11386-3	C-2 12'	Solid	02/16/22 10:10	02/16/22 16:18
880-11386-4	C-2 13'	Solid	02/16/22 10:15	02/16/22 16:18
880-11386-5	C-14 8'	Solid	02/16/22 10:02	02/16/22 16:18
880-11386-6	C-14 9'	Solid	02/16/22 10:07	02/16/22 16:18
880-11386-7	C-14 10'	Solid	02/16/22 10:12	02/16/22 16:18
880-11386-8	C-14 11'	Solid	02/16/22 10:17	02/16/22 16:18
880-11386-9	C-15 8'	Solid	02/16/22 10:45	02/16/22 16:18
880-11386-10	C-15 9'	Solid	02/16/22 10:55	02/16/22 16:18
880-11386-11	C-15 10'	Solid	02/16/22 11:05	02/16/22 16:18
880-11386-12	C-15 11'	Solid	02/16/22 11:08	02/16/22 16:18
880-11386-13	C-16 0-4.1	Solid	02/16/22 11:15	02/16/22 16:18
880-11386-14	C-16 4.1-8	Solid	02/16/22 11:25	02/16/22 16:18
880-11386-15	C-17 0-4.1	Solid	02/16/22 11:30	02/16/22 16:18
880-11386-16	C-17 4.1-8	Solid	02/16/22 11:34	02/16/22 16:18



507 N. Marientfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 2/16/2022 PAGE 1 OF 2
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Cotton Draw TB
LAI PROJECT #: 22-0105-65 COLLECTOR: BS4

No. 2273
11386 CHAIN-OF-CUSTODY

TRRP report?		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		PRESERVATION		ANALYSES		FIELD NOTES	
Yes	No					HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	
TIME ZONE: MST/UM		Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers				
C-1	12'			2/16/22	1000	S	1				
C-1	13'				1005						
C-2	12'				1000						
C-2	13'				1015						
C-14	8'				1002						
C-14	9'				1007						
C-14	10'				1012						
C-14	11'				1017						
C-15	8'				1015						
C-15	9'				1035						
C-15	10'				1105						
C-15	11'				1108						
C-16	0-4.1				1115						
C-16	4.1-8				1125						
C-17	0-4.1				1130						
TOTAL 15											

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 2/16/2022 10:18 RECEIVED BY: (Signature) [Signature] DATE/TIME 2/16/2022 10:18

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

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

LABORATORY: Xenoco

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

LABORATORY USE ONLY:
RECEIVING TEMP. 12.8/27 THERM# IRE
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
CARRIER BILL # _____
☒ HAND DELIVERED

880-11386 Chain of Custody

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

No. 2274
11386 CHAIN-OF-CUSTODY

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-11386-1

SDG Number: 22-0105-05

Login Number: 11386

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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-13941-1
Laboratory Sample Delivery Group: 22-0105-05
Client Project/Site: Cotton Draw TB

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

Attn: Mr. Mark J Larson

A handwritten signature in cursive script that reads "Holly Taylor".

Authorized for release by:
5/5/2022 11:14:15 AM

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

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

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Laboratory Job ID: 880-13941-1
SDG: 22-0105-05

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

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, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
α	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: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Job ID: 880-13941-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-13941-1

Comments

No additional comments.

Receipt

The samples were received on 4/21/2022 9:08 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 0.2° C.

Receipt Exceptions

The Sample IDs for 880-13941-25 through 28 were changed from S-7 to S-3 per Robert Nelson (email).
S-3, 1 (880-13941-25), S-3, 3 (880-13941-26), S-3, 5 (880-13941-27), S-3, 10 (880-13941-28)

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-24523 recovered under the lower control limit for Benzene, Toluene, Ethylbenzene and m,p-Xylene. All samples for the associated batch ran with passing continuing calibration verifications within the 12hr span; Therefore samples are reportable.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24494 and analytical batch 880-24523 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-24635 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene and m,p-Xylene. The samples associated with this CCV were ran within 12 hr of passing CCV's. Therefore the samples are reportable.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24319 and analytical batch 880-24740 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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 (MS/MSD) recoveries for preparation batch 880-24168 and analytical batch 880-24215 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24157 and analytical batch 880-24398 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or 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: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-10, 1

Lab Sample ID: 880-13941-1

Date Collected: 04/19/22 12:40

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/02/22 08:00	05/02/22 20:12	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/02/22 08:00	05/02/22 20:12	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/02/22 08:00	05/02/22 20:12	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		05/02/22 08:00	05/02/22 20:12	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/02/22 08:00	05/02/22 20:12	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/02/22 08:00	05/02/22 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/02/22 08:00	05/02/22 20:12	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/02/22 08:00	05/02/22 20:12	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 12:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 12:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130	04/22/22 10:03	04/24/22 12:44	1
o-Terphenyl (Surr)	95		70 - 130	04/22/22 10:03	04/24/22 12:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		4.96	mg/Kg			04/28/22 09:28	1

Client Sample ID: S-10, 3

Lab Sample ID: 880-13941-2

Date Collected: 04/19/22 12:41

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/02/22 08:00	05/02/22 20:32	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/02/22 08:00	05/02/22 20:32	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/02/22 08:00	05/02/22 20:32	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		05/02/22 08:00	05/02/22 20:32	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/02/22 08:00	05/02/22 20:32	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/02/22 08:00	05/02/22 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05/02/22 08:00	05/02/22 20:32	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/02/22 08:00	05/02/22 20:32	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-10, 3

Lab Sample ID: 880-13941-2

Date Collected: 04/19/22 12:41

Matrix: Solid

Date Received: 04/21/22 09:08

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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 13:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 13:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 13:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			04/22/22 10:03	04/24/22 13:46	1
o-Terphenyl (Surr)	118		70 - 130			04/22/22 10:03	04/24/22 13:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.44		4.98	mg/Kg			04/28/22 09:56	1

Client Sample ID: S-10, 5

Lab Sample ID: 880-13941-3

Date Collected: 04/19/22 12:42

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:00	05/02/22 20:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:00	05/02/22 20:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:00	05/02/22 20:53	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		05/02/22 08:00	05/02/22 20:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:00	05/02/22 20:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/02/22 08:00	05/02/22 20:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			05/02/22 08:00	05/02/22 20:53	1
1,4-Difluorobenzene (Surr)	92		70 - 130			05/02/22 08:00	05/02/22 20:53	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 14:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 14:06	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-10, 5

Lab Sample ID: 880-13941-3

Date Collected: 04/19/22 12:42

Matrix: Solid

Date Received: 04/21/22 09:08

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 14:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			04/22/22 10:03	04/24/22 14:06	1
o-Terphenyl (Surr)	103		70 - 130			04/22/22 10:03	04/24/22 14:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/28/22 10:05	1

Client Sample ID: S-10, 10

Lab Sample ID: 880-13941-4

Date Collected: 04/19/22 12:43

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:00	05/02/22 21:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:00	05/02/22 21:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:00	05/02/22 21:13	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		05/02/22 08:00	05/02/22 21:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:00	05/02/22 21:13	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/02/22 08:00	05/02/22 21:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/02/22 08:00	05/02/22 21:13	1
1,4-Difluorobenzene (Surr)	88		70 - 130			05/02/22 08:00	05/02/22 21:13	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 14:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 14:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 14:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			04/22/22 10:03	04/24/22 14:27	1
o-Terphenyl (Surr)	118		70 - 130			04/22/22 10:03	04/24/22 14:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			04/28/22 10:14	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-9, 1

Lab Sample ID: 880-13941-5

Date Collected: 04/19/22 13:15

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/28/22 11:39	05/03/22 01:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/28/22 11:39	05/03/22 01:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/28/22 11:39	05/03/22 01:29	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		04/28/22 11:39	05/03/22 01:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/28/22 11:39	05/03/22 01:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/28/22 11:39	05/03/22 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/28/22 11:39	05/03/22 01:29	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/28/22 11:39	05/03/22 01:29	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 14:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 14:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130	04/22/22 10:03	04/24/22 14:48	1
o-Terphenyl (Surr)	96		70 - 130	04/22/22 10:03	04/24/22 14:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.26		5.04	mg/Kg			04/28/22 10:23	1

Client Sample ID: S-9, 3

Lab Sample ID: 880-13941-6

Date Collected: 04/19/22 13:16

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 00:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 00:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 00:18	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		04/27/22 11:44	05/03/22 00:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 00:18	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/27/22 11:44	05/03/22 00:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/27/22 11:44	05/03/22 00:18	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/27/22 11:44	05/03/22 00:18	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-9, 3

Lab Sample ID: 880-13941-6

Date Collected: 04/19/22 13:16

Matrix: Solid

Date Received: 04/21/22 09:08

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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 15:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 15:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			04/22/22 10:03	04/24/22 15:08	1
o-Terphenyl (Surr)	97		70 - 130			04/22/22 10:03	04/24/22 15:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.2		4.97	mg/Kg			04/28/22 10:51	1

Client Sample ID: S-9, 5

Lab Sample ID: 880-13941-7

Date Collected: 04/19/22 13:17

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 00:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 00:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 00:38	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		04/27/22 11:44	05/03/22 00:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 00:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/27/22 11:44	05/03/22 00:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			04/27/22 11:44	05/03/22 00:38	1
1,4-Difluorobenzene (Surr)	86		70 - 130			04/27/22 11:44	05/03/22 00:38	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 15:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 15:29	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-9, 5

Lab Sample ID: 880-13941-7

Date Collected: 04/19/22 13:17

Matrix: Solid

Date Received: 04/21/22 09:08

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 15:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			04/22/22 10:03	04/24/22 15:29	1
o-Terphenyl (Surr)	95		70 - 130			04/22/22 10:03	04/24/22 15:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			04/28/22 11:00	1

Client Sample ID: S-9, 10

Lab Sample ID: 880-13941-8

Date Collected: 04/19/22 13:18

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 00:58	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 00:58	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 00:58	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		04/27/22 11:44	05/03/22 00:58	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 00:58	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/27/22 11:44	05/03/22 00:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			04/27/22 11:44	05/03/22 00:58	1
1,4-Difluorobenzene (Surr)	86		70 - 130			04/27/22 11:44	05/03/22 00:58	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 15:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 15:50	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 15:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			04/22/22 10:03	04/24/22 15:50	1
o-Terphenyl (Surr)	96		70 - 130			04/22/22 10:03	04/24/22 15:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			04/28/22 11:09	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-1, 1

Lab Sample ID: 880-13941-9

Date Collected: 04/19/22 14:00

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:44	05/03/22 01:19	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:44	05/03/22 01:19	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:44	05/03/22 01:19	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		04/27/22 11:44	05/03/22 01:19	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:44	05/03/22 01:19	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/27/22 11:44	05/03/22 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/27/22 11:44	05/03/22 01:19	1
1,4-Difluorobenzene (Surr)	88		70 - 130	04/27/22 11:44	05/03/22 01:19	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 16:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 16:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130	04/22/22 10:03	04/24/22 16:10	1
o-Terphenyl (Surr)	94		70 - 130	04/22/22 10:03	04/24/22 16:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.53		5.00	mg/Kg			04/28/22 11:19	1

Client Sample ID: S-1, 3

Lab Sample ID: 880-13941-10

Date Collected: 04/19/22 14:01

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:44	05/03/22 01:39	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:44	05/03/22 01:39	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:44	05/03/22 01:39	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		04/27/22 11:44	05/03/22 01:39	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:44	05/03/22 01:39	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/27/22 11:44	05/03/22 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/27/22 11:44	05/03/22 01:39	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/27/22 11:44	05/03/22 01:39	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-1, 3

Lab Sample ID: 880-13941-10

Date Collected: 04/19/22 14:01

Matrix: Solid

Date Received: 04/21/22 09:08

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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 16:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 16:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 16:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			04/22/22 10:03	04/24/22 16:31	1
o-Terphenyl (Surr)	98		70 - 130			04/22/22 10:03	04/24/22 16:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.7		4.95	mg/Kg			04/28/22 11:28	1

Client Sample ID: S-1, 5

Lab Sample ID: 880-13941-11

Date Collected: 04/19/22 14:02

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 02:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 02:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 02:00	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		04/27/22 11:44	05/03/22 02:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 02:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/27/22 11:44	05/03/22 02:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			04/27/22 11:44	05/03/22 02:00	1
1,4-Difluorobenzene (Surr)	86		70 - 130			04/27/22 11:44	05/03/22 02:00	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 17:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 17:12	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-1, 5

Lab Sample ID: 880-13941-11

Date Collected: 04/19/22 14:02

Matrix: Solid

Date Received: 04/21/22 09:08

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 17:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			04/22/22 10:03	04/24/22 17:12	1
o-Terphenyl (Surr)	93		70 - 130			04/22/22 10:03	04/24/22 17:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.39		5.00	mg/Kg			04/28/22 11:37	1

Client Sample ID: S-1, 10

Lab Sample ID: 880-13941-12

Date Collected: 04/19/22 14:03

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 02:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 02:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 02:20	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		04/27/22 11:44	05/03/22 02:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 02:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/27/22 11:44	05/03/22 02:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			04/27/22 11:44	05/03/22 02:20	1
1,4-Difluorobenzene (Surr)	89		70 - 130			04/27/22 11:44	05/03/22 02:20	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 17:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 17:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 17:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			04/22/22 10:03	04/24/22 17:33	1
o-Terphenyl (Surr)	93		70 - 130			04/22/22 10:03	04/24/22 17:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			04/28/22 12:05	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-2, 1

Lab Sample ID: 880-13941-13

Date Collected: 04/19/22 14:20

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 02:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 02:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 02:41	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		04/27/22 11:44	05/03/22 02:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 02:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/27/22 11:44	05/03/22 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/27/22 11:44	05/03/22 02:41	1
1,4-Difluorobenzene (Surr)	86		70 - 130	04/27/22 11:44	05/03/22 02:41	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 17:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 17:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130	04/22/22 10:03	04/24/22 17:53	1
o-Terphenyl (Surr)	91		70 - 130	04/22/22 10:03	04/24/22 17:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	297		4.98	mg/Kg			04/28/22 12:14	1

Client Sample ID: S-2, 3

Lab Sample ID: 880-13941-14

Date Collected: 04/19/22 14:21

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 03:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 03:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 03:01	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		04/27/22 11:44	05/03/22 03:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 03:01	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/27/22 11:44	05/03/22 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/27/22 11:44	05/03/22 03:01	1
1,4-Difluorobenzene (Surr)	88		70 - 130	04/27/22 11:44	05/03/22 03:01	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-2, 3

Lab Sample ID: 880-13941-14

Date Collected: 04/19/22 14:21

Matrix: Solid

Date Received: 04/21/22 09:08

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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 18:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 18:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			04/22/22 10:03	04/24/22 18:14	1
o-Terphenyl (Surr)	108		70 - 130			04/22/22 10:03	04/24/22 18:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		4.96	mg/Kg			04/28/22 12:41	1

Client Sample ID: S-2, 5

Lab Sample ID: 880-13941-15

Date Collected: 04/19/22 14:22

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:44	05/03/22 03:21	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:44	05/03/22 03:21	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:44	05/03/22 03:21	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		04/27/22 11:44	05/03/22 03:21	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:44	05/03/22 03:21	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/27/22 11:44	05/03/22 03:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			04/27/22 11:44	05/03/22 03:21	1
1,4-Difluorobenzene (Surr)	86		70 - 130			04/27/22 11:44	05/03/22 03:21	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 18:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 18:35	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-2, 5

Lab Sample ID: 880-13941-15

Date Collected: 04/19/22 14:22

Matrix: Solid

Date Received: 04/21/22 09:08

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			04/22/22 10:03	04/24/22 18:35	1
o-Terphenyl (Surr)	108		70 - 130			04/22/22 10:03	04/24/22 18:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.2		5.04	mg/Kg			04/28/22 12:50	1

Client Sample ID: S-2, 10

Lab Sample ID: 880-13941-16

Date Collected: 04/19/22 14:23

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 04:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 04:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 04:43	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		04/27/22 11:44	05/03/22 04:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 04:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/27/22 11:44	05/03/22 04:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			04/27/22 11:44	05/03/22 04:43	1
1,4-Difluorobenzene (Surr)	88		70 - 130			04/27/22 11:44	05/03/22 04:43	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 18:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 18:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130			04/22/22 10:03	04/24/22 18:55	1
o-Terphenyl (Surr)	96		70 - 130			04/22/22 10:03	04/24/22 18:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.63		4.98	mg/Kg			04/28/22 13:00	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-6, 1

Lab Sample ID: 880-13941-17

Date Collected: 04/19/22 14:40

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 05:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 05:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 05:04	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		04/27/22 11:44	05/03/22 05:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 05:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/27/22 11:44	05/03/22 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/27/22 11:44	05/03/22 05:04	1
1,4-Difluorobenzene (Surr)	86		70 - 130	04/27/22 11:44	05/03/22 05:04	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 19:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 19:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	04/22/22 10:03	04/24/22 19:16	1
o-Terphenyl (Surr)	101		70 - 130	04/22/22 10:03	04/24/22 19:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		4.95	mg/Kg			04/28/22 13:09	1

Client Sample ID: S-6, 3

Lab Sample ID: 880-13941-18

Date Collected: 04/19/22 14:41

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 05:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 05:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 05:24	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		04/27/22 11:44	05/03/22 05:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 05:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/27/22 11:44	05/03/22 05:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/27/22 11:44	05/03/22 05:24	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/27/22 11:44	05/03/22 05:24	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-6, 3

Lab Sample ID: 880-13941-18

Date Collected: 04/19/22 14:41

Matrix: Solid

Date Received: 04/21/22 09:08

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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 19:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 19:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/22/22 10:03	04/24/22 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			04/22/22 10:03	04/24/22 19:36	1
o-Terphenyl (Surr)	99		70 - 130			04/22/22 10:03	04/24/22 19:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.78		5.00	mg/Kg			04/28/22 13:18	1

Client Sample ID: S-6, 5

Lab Sample ID: 880-13941-19

Date Collected: 04/19/22 14:42

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/27/22 11:44	05/03/22 05:44	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/27/22 11:44	05/03/22 05:44	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/27/22 11:44	05/03/22 05:44	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		04/27/22 11:44	05/03/22 05:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/27/22 11:44	05/03/22 05:44	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		04/27/22 11:44	05/03/22 05:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			04/27/22 11:44	05/03/22 05:44	1
1,4-Difluorobenzene (Surr)	85		70 - 130			04/27/22 11:44	05/03/22 05:44	1

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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 19:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 19:57	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-6, 5

Lab Sample ID: 880-13941-19

Date Collected: 04/19/22 14:42

Matrix: Solid

Date Received: 04/21/22 09:08

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 19:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			04/22/22 10:03	04/24/22 19:57	1
o-Terphenyl (Surr)	104		70 - 130			04/22/22 10:03	04/24/22 19:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			04/28/22 13:27	1

Client Sample ID: S-6, 10

Lab Sample ID: 880-13941-20

Date Collected: 04/19/22 14:43

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/27/22 11:44	05/03/22 06:05	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/27/22 11:44	05/03/22 06:05	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/27/22 11:44	05/03/22 06:05	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		04/27/22 11:44	05/03/22 06:05	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/27/22 11:44	05/03/22 06:05	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/27/22 11:44	05/03/22 06:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			04/27/22 11:44	05/03/22 06:05	1
1,4-Difluorobenzene (Surr)	85		70 - 130			04/27/22 11:44	05/03/22 06:05	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 10:03	04/24/22 20:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 20:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 20:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			04/22/22 10:03	04/24/22 20:17	1
o-Terphenyl (Surr)	102		70 - 130			04/22/22 10:03	04/24/22 20:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		4.98	mg/Kg			04/28/22 13:36	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-5, 1

Lab Sample ID: 880-13941-21

Date Collected: 04/19/22 15:00

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/29/22 09:27	04/30/22 10:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/29/22 09:27	04/30/22 10:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/29/22 09:27	04/30/22 10:29	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		04/29/22 09:27	04/30/22 10:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/29/22 09:27	04/30/22 10:29	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/29/22 09:27	04/30/22 10:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/29/22 09:27	04/30/22 10:29	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/29/22 09:27	04/30/22 10:29	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 14:53	04/25/22 18:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 14:53	04/25/22 18:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 14:53	04/25/22 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130	04/22/22 14:53	04/25/22 18:22	1
o-Terphenyl (Surr)	95		70 - 130	04/22/22 14:53	04/25/22 18:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2220	F1	25.0	mg/Kg			04/28/22 14:46	5

Client Sample ID: S-5, 3

Lab Sample ID: 880-13941-22

Date Collected: 04/19/22 15:01

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 06:46	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 06:46	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 06:46	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		04/27/22 11:44	05/03/22 06:46	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 06:46	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/27/22 11:44	05/03/22 06:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/27/22 11:44	05/03/22 06:46	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/27/22 11:44	05/03/22 06:46	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-5, 3

Lab Sample ID: 880-13941-22

Date Collected: 04/19/22 15:01

Matrix: Solid

Date Received: 04/21/22 09:08

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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 14:53	04/25/22 18:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/22/22 14:53	04/25/22 18:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/22/22 14:53	04/25/22 18:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			04/22/22 14:53	04/25/22 18:43	1
o-Terphenyl (Surr)	95		70 - 130			04/22/22 14:53	04/25/22 18:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.2		4.95	mg/Kg			04/28/22 15:12	1

Client Sample ID: S-5, 5

Lab Sample ID: 880-13941-23

Date Collected: 04/19/22 15:02

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 07:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 07:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 07:06	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		04/27/22 11:44	05/03/22 07:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/03/22 07:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/27/22 11:44	05/03/22 07:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			04/27/22 11:44	05/03/22 07:06	1
1,4-Difluorobenzene (Surr)	88		70 - 130			04/27/22 11:44	05/03/22 07:06	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 14:53	04/25/22 19:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 14:53	04/25/22 19:03	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-5, 5

Lab Sample ID: 880-13941-23

Date Collected: 04/19/22 15:02

Matrix: Solid

Date Received: 04/21/22 09:08

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		04/22/22 14:53	04/25/22 19:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			04/22/22 14:53	04/25/22 19:03	1
o-Terphenyl (Surr)	94		70 - 130			04/22/22 14:53	04/25/22 19:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.44		5.01	mg/Kg			04/28/22 15:21	1

Client Sample ID: S-5, 10

Lab Sample ID: 880-13941-24

Date Collected: 04/19/22 15:03

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 07:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 07:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 07:27	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		04/27/22 11:44	05/03/22 07:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:44	05/03/22 07:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/27/22 11:44	05/03/22 07:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			04/27/22 11:44	05/03/22 07:27	1
1,4-Difluorobenzene (Surr)	85		70 - 130			04/27/22 11:44	05/03/22 07:27	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 14:53	04/25/22 19:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/22/22 14:53	04/25/22 19:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/22/22 14:53	04/25/22 19:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			04/22/22 14:53	04/25/22 19:24	1
o-Terphenyl (Surr)	89		70 - 130			04/22/22 14:53	04/25/22 19:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			04/28/22 15:30	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-3, 1

Lab Sample ID: 880-13941-25

Date Collected: 04/19/22 15:30

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 07:47	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 07:47	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 07:47	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		04/27/22 11:44	05/03/22 07:47	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:44	05/03/22 07:47	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/27/22 11:44	05/03/22 07:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/27/22 11:44	05/03/22 07:47	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/27/22 11:44	05/03/22 07:47	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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 14:53	04/25/22 19:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 14:53	04/25/22 19:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 14:53	04/25/22 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	04/22/22 14:53	04/25/22 19:45	1
o-Terphenyl (Surr)	101		70 - 130	04/22/22 14:53	04/25/22 19:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.6		5.00	mg/Kg			04/28/22 15:39	1

Client Sample ID: S-3, 3

Lab Sample ID: 880-13941-26

Date Collected: 04/19/22 15:31

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/02/22 15:28	05/03/22 21:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/02/22 15:28	05/03/22 21:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/02/22 15:28	05/03/22 21:38	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		05/02/22 15:28	05/03/22 21:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/02/22 15:28	05/03/22 21:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/02/22 15:28	05/03/22 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	05/02/22 15:28	05/03/22 21:38	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/02/22 15:28	05/03/22 21:38	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-3, 3

Lab Sample ID: 880-13941-26

Date Collected: 04/19/22 15:31

Matrix: Solid

Date Received: 04/21/22 09:08

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			05/02/22 08:25	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			04/25/22 13:58	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		04/22/22 14:53	04/25/22 20:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 14:53	04/25/22 20:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 14:53	04/25/22 20:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130			04/22/22 14:53	04/25/22 20:05	1
o-Terphenyl (Surr)	101		70 - 130			04/22/22 14:53	04/25/22 20:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			04/28/22 16:05	1

Client Sample ID: S-3, 5

Lab Sample ID: 880-13941-27

Date Collected: 04/19/22 15:32

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 22:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 22:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 22:05	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		05/02/22 15:28	05/03/22 22:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 22:05	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/02/22 15:28	05/03/22 22:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			05/02/22 15:28	05/03/22 22:05	1
1,4-Difluorobenzene (Surr)	92		70 - 130			05/02/22 15:28	05/03/22 22:05	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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/26/22 20:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	mg/Kg		04/25/22 11:18	04/26/22 20:35	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-3, 5

Lab Sample ID: 880-13941-27

Date Collected: 04/19/22 15:32

Matrix: Solid

Date Received: 04/21/22 09:08

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		04/25/22 11:18	04/26/22 20:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			04/25/22 11:18	04/26/22 20:35	1
o-Terphenyl (Surr)	116		70 - 130			04/25/22 11:18	04/26/22 20:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/28/22 16:14	1

Client Sample ID: S-3, 10

Lab Sample ID: 880-13941-28

Date Collected: 04/19/22 15:33

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/02/22 15:28	05/03/22 22:32	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/02/22 15:28	05/03/22 22:32	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/02/22 15:28	05/03/22 22:32	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		05/02/22 15:28	05/03/22 22:32	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/02/22 15:28	05/03/22 22:32	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/02/22 15:28	05/03/22 22:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			05/02/22 15:28	05/03/22 22:32	1
1,4-Difluorobenzene (Surr)	91		70 - 130			05/02/22 15:28	05/03/22 22:32	1

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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/26/22 21:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/26/22 21:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/26/22 21:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			04/25/22 11:18	04/26/22 21:37	1
o-Terphenyl (Surr)	98		70 - 130			04/25/22 11:18	04/26/22 21:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.4		5.00	mg/Kg			04/28/22 16:23	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-4, 1

Lab Sample ID: 880-13941-29

Date Collected: 04/20/22 08:15

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 22:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 22:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 22:59	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		05/02/22 15:28	05/03/22 22:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 22:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/02/22 15:28	05/03/22 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	05/02/22 15:28	05/03/22 22:59	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/02/22 15:28	05/03/22 22:59	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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/26/22 21:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/26/22 21:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/26/22 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130	04/25/22 11:18	04/26/22 21:57	1
o-Terphenyl (Surr)	102		70 - 130	04/25/22 11:18	04/26/22 21:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.7		4.97	mg/Kg			04/28/22 16:32	1

Client Sample ID: S-4, 3

Lab Sample ID: 880-13941-30

Date Collected: 04/20/22 08:16

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/02/22 15:28	05/03/22 23:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/02/22 15:28	05/03/22 23:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/02/22 15:28	05/03/22 23:26	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		05/02/22 15:28	05/03/22 23:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/02/22 15:28	05/03/22 23:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/02/22 15:28	05/03/22 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	05/02/22 15:28	05/03/22 23:26	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/02/22 15:28	05/03/22 23:26	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-4, 3

Lab Sample ID: 880-13941-30

Date Collected: 04/20/22 08:16

Matrix: Solid

Date Received: 04/21/22 09:08

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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/26/22 22:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/26/22 22:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/26/22 22:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			04/25/22 11:18	04/26/22 22:18	1
o-Terphenyl (Surr)	96		70 - 130			04/25/22 11:18	04/26/22 22:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.64		5.04	mg/Kg			04/28/22 16:41	1

Client Sample ID: S-4, 5

Lab Sample ID: 880-13941-31

Date Collected: 04/20/22 08:17

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 23:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 23:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 23:53	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		05/02/22 15:28	05/03/22 23:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 23:53	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/02/22 15:28	05/03/22 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			05/02/22 15:28	05/03/22 23:53	1
1,4-Difluorobenzene (Surr)	91		70 - 130			05/02/22 15:28	05/03/22 23:53	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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/26/22 22:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/26/22 22:39	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-4, 5

Lab Sample ID: 880-13941-31

Date Collected: 04/20/22 08:17

Matrix: Solid

Date Received: 04/21/22 09:08

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/26/22 22:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			04/25/22 11:18	04/26/22 22:39	1
o-Terphenyl (Surr)	98		70 - 130			04/25/22 11:18	04/26/22 22:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.7		4.99	mg/Kg			04/28/22 16:50	1

Client Sample ID: S-4, 10

Lab Sample ID: 880-13941-32

Date Collected: 04/20/22 08:18

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/02/22 15:28	05/04/22 00:20	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/02/22 15:28	05/04/22 00:20	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/02/22 15:28	05/04/22 00:20	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		05/02/22 15:28	05/04/22 00:20	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/02/22 15:28	05/04/22 00:20	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/02/22 15:28	05/04/22 00:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			05/02/22 15:28	05/04/22 00:20	1
1,4-Difluorobenzene (Surr)	93		70 - 130			05/02/22 15:28	05/04/22 00:20	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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/26/22 22:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/26/22 22:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/26/22 22:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			04/25/22 11:18	04/26/22 22:59	1
o-Terphenyl (Surr)	119		70 - 130			04/25/22 11:18	04/26/22 22:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			04/28/22 17:43	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-11, 1

Lab Sample ID: 880-13941-33

Date Collected: 04/20/22 08:45

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/04/22 00:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/04/22 00:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/04/22 00:47	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		05/02/22 15:28	05/04/22 00:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/04/22 00:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/02/22 15:28	05/04/22 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	05/02/22 15:28	05/04/22 00:47	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/02/22 15:28	05/04/22 00:47	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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/26/22 23:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/26/22 23:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/26/22 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	04/25/22 11:18	04/26/22 23:20	1
o-Terphenyl (Surr)	117		70 - 130	04/25/22 11:18	04/26/22 23:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.9		4.99	mg/Kg			04/28/22 17:52	1

Client Sample ID: S-11, 3

Lab Sample ID: 880-13941-34

Date Collected: 04/20/22 08:46

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/02/22 15:28	05/04/22 01:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/02/22 15:28	05/04/22 01:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/02/22 15:28	05/04/22 01:14	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		05/02/22 15:28	05/04/22 01:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/02/22 15:28	05/04/22 01:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/02/22 15:28	05/04/22 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	05/02/22 15:28	05/04/22 01:14	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/02/22 15:28	05/04/22 01:14	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-11, 3

Lab Sample ID: 880-13941-34

Date Collected: 04/20/22 08:46

Matrix: Solid

Date Received: 04/21/22 09:08

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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/26/22 23:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/26/22 23:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/26/22 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			04/25/22 11:18	04/26/22 23:40	1
o-Terphenyl (Surr)	101		70 - 130			04/25/22 11:18	04/26/22 23:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96	mg/Kg			04/28/22 18:19	1

Client Sample ID: S-11, 5

Lab Sample ID: 880-13941-35

Date Collected: 04/20/22 08:47

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/02/22 15:28	05/04/22 01:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/02/22 15:28	05/04/22 01:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/02/22 15:28	05/04/22 01:41	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		05/02/22 15:28	05/04/22 01:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/02/22 15:28	05/04/22 01:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/02/22 15:28	05/04/22 01:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			05/02/22 15:28	05/04/22 01:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130			05/02/22 15:28	05/04/22 01:41	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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/27/22 00:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/27/22 00:01	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-11, 5

Lab Sample ID: 880-13941-35

Date Collected: 04/20/22 08:47

Matrix: Solid

Date Received: 04/21/22 09:08

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/27/22 00:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			04/25/22 11:18	04/27/22 00:01	1
o-Terphenyl (Surr)	108		70 - 130			04/25/22 11:18	04/27/22 00:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			04/28/22 18:28	1

Client Sample ID: S-11, 10

Lab Sample ID: 880-13941-36

Date Collected: 04/20/22 08:48

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:49	05/03/22 20:15	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:49	05/03/22 20:15	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:49	05/03/22 20:15	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		04/27/22 11:49	05/03/22 20:15	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:49	05/03/22 20:15	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/27/22 11:49	05/03/22 20:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			04/27/22 11:49	05/03/22 20:15	1
1,4-Difluorobenzene (Surr)	100		70 - 130			04/27/22 11:49	05/03/22 20:15	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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/27/22 00:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/27/22 00:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/27/22 00:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130			04/25/22 11:18	04/27/22 00:22	1
o-Terphenyl (Surr)	114		70 - 130			04/25/22 11:18	04/27/22 00:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/28/22 18:37	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-7, 1

Lab Sample ID: 880-13941-37

Date Collected: 04/20/22 09:10

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 20:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 20:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 20:35	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		04/27/22 11:49	05/03/22 20:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 20:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/27/22 11:49	05/03/22 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/27/22 11:49	05/03/22 20:35	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/27/22 11:49	05/03/22 20:35	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			05/02/22 08:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.1		49.9	mg/Kg			04/25/22 13:58	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		04/25/22 11:18	04/27/22 01:03	1
Diesel Range Organics (Over C10-C28)	55.1		49.9	mg/Kg		04/25/22 11:18	04/27/22 01:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/27/22 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	04/25/22 11:18	04/27/22 01:03	1
o-Terphenyl (Surr)	116		70 - 130	04/25/22 11:18	04/27/22 01:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2670		25.0	mg/Kg			04/28/22 18:45	5

Client Sample ID: S-7, 3

Lab Sample ID: 880-13941-38

Date Collected: 04/20/22 09:11

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/27/22 11:49	05/03/22 22:26	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/27/22 11:49	05/03/22 22:26	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/27/22 11:49	05/03/22 22:26	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		04/27/22 11:49	05/03/22 22:26	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/27/22 11:49	05/03/22 22:26	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		04/27/22 11:49	05/03/22 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/27/22 11:49	05/03/22 22:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/27/22 11:49	05/03/22 22:26	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-7, 3

Lab Sample ID: 880-13941-38

Date Collected: 04/20/22 09:11

Matrix: Solid

Date Received: 04/21/22 09:08

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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/27/22 01:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/27/22 01:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/27/22 01:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			04/25/22 11:18	04/27/22 01:23	1
o-Terphenyl (Surr)	118		70 - 130			04/25/22 11:18	04/27/22 01:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.2		5.00	mg/Kg			04/28/22 18:54	1

Client Sample ID: S-7, 5

Lab Sample ID: 880-13941-39

Date Collected: 04/20/22 09:12

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 22:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 22:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 22:46	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		04/27/22 11:49	05/03/22 22:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 22:46	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/27/22 11:49	05/03/22 22:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			04/27/22 11:49	05/03/22 22:46	1
1,4-Difluorobenzene (Surr)	102		70 - 130			04/27/22 11:49	05/03/22 22:46	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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/27/22 01:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/27/22 01:44	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-7, 5

Lab Sample ID: 880-13941-39

Date Collected: 04/20/22 09:12

Matrix: Solid

Date Received: 04/21/22 09:08

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/27/22 01:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			04/25/22 11:18	04/27/22 01:44	1
o-Terphenyl (Surr)	102		70 - 130			04/25/22 11:18	04/27/22 01:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.03		5.01	mg/Kg			04/28/22 19:03	1

Client Sample ID: S-7, 10

Lab Sample ID: 880-13941-40

Date Collected: 04/20/22 09:13

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:49	05/03/22 23:06	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:49	05/03/22 23:06	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:49	05/03/22 23:06	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		04/27/22 11:49	05/03/22 23:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/27/22 11:49	05/03/22 23:06	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/27/22 11:49	05/03/22 23:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			04/27/22 11:49	05/03/22 23:06	1
1,4-Difluorobenzene (Surr)	103		70 - 130			04/27/22 11:49	05/03/22 23:06	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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/27/22 02:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/27/22 02:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/27/22 02:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			04/25/22 11:18	04/27/22 02:04	1
o-Terphenyl (Surr)	122		70 - 130			04/25/22 11:18	04/27/22 02:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			04/28/22 19:12	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-8, 1

Lab Sample ID: 880-13941-41

Date Collected: 04/20/22 09:30

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:49	05/03/22 23:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:49	05/03/22 23:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:49	05/03/22 23:27	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		04/27/22 11:49	05/03/22 23:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/27/22 11:49	05/03/22 23:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/27/22 11:49	05/03/22 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/27/22 11:49	05/03/22 23:27	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/27/22 11:49	05/03/22 23:27	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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/27/22 02:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/27/22 02:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/27/22 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130	04/25/22 11:18	04/27/22 02:24	1
o-Terphenyl (Surr)	100		70 - 130	04/25/22 11:18	04/27/22 02:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		4.95	mg/Kg			04/29/22 00:05	1

Client Sample ID: S-8, 3

Lab Sample ID: 880-13941-42

Date Collected: 04/20/22 09:31

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 23:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 23:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 23:47	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		04/27/22 11:49	05/03/22 23:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 23:47	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/27/22 11:49	05/03/22 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/27/22 11:49	05/03/22 23:47	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/27/22 11:49	05/03/22 23:47	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-8, 3

Lab Sample ID: 880-13941-42

Date Collected: 04/20/22 09:31

Matrix: Solid

Date Received: 04/21/22 09:08

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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/27/22 02:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/27/22 02:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/27/22 02:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			04/25/22 11:18	04/27/22 02:45	1
o-Terphenyl (Surr)	96		70 - 130			04/25/22 11:18	04/27/22 02:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			04/29/22 00:24	1

Client Sample ID: S-8, 5

Lab Sample ID: 880-13941-43

Date Collected: 04/20/22 09:32

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:49	05/04/22 00:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:49	05/04/22 00:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:49	05/04/22 00:08	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		04/27/22 11:49	05/04/22 00:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:49	05/04/22 00:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/27/22 11:49	05/04/22 00:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	256	S1+	70 - 130			04/27/22 11:49	05/04/22 00:08	1
1,4-Difluorobenzene (Surr)	237	S1+	70 - 130			04/27/22 11:49	05/04/22 00:08	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			05/02/22 08:25	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			04/25/22 13:58	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		04/25/22 11:18	04/27/22 03:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/27/22 03:05	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-8, 5

Lab Sample ID: 880-13941-43

Date Collected: 04/20/22 09:32

Matrix: Solid

Date Received: 04/21/22 09:08

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/27/22 03:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			04/25/22 11:18	04/27/22 03:05	1
o-Terphenyl (Surr)	109		70 - 130			04/25/22 11:18	04/27/22 03:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			04/29/22 00:30	1

Client Sample ID: S-8, 10

Lab Sample ID: 880-13941-44

Date Collected: 04/20/22 09:33

Matrix: Solid

Date Received: 04/21/22 09:08

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:49	05/04/22 00:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:49	05/04/22 00:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:49	05/04/22 00:28	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		04/27/22 11:49	05/04/22 00:28	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/27/22 11:49	05/04/22 00:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/27/22 11:49	05/04/22 00:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			04/27/22 11:49	05/04/22 00:28	1
1,4-Difluorobenzene (Surr)	102		70 - 130			04/27/22 11:49	05/04/22 00:28	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			05/02/22 08:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	88.6		49.9	mg/Kg			04/25/22 13:58	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		04/25/22 11:18	04/27/22 03:26	1
Diesel Range Organics (Over C10-C28)	88.6		49.9	mg/Kg		04/25/22 11:18	04/27/22 03:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/25/22 11:18	04/27/22 03:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130			04/25/22 11:18	04/27/22 03:26	1
o-Terphenyl (Surr)	107		70 - 130			04/25/22 11:18	04/27/22 03:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96	mg/Kg			04/29/22 00:37	1

Eurofins Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-13941-1	S-10, 1	106	90
880-13941-2	S-10, 3	108	90
880-13941-3	S-10, 5	106	92
880-13941-4	S-10, 10	105	88
880-13941-5	S-9, 1	108	98
880-13941-6	S-9, 3	104	89
880-13941-6 MS	S-9, 3	111	94
880-13941-6 MSD	S-9, 3	114	96
880-13941-7	S-9, 5	103	86
880-13941-8	S-9, 10	105	86
880-13941-9	S-1, 1	104	88
880-13941-10	S-1, 3	106	87
880-13941-11	S-1, 5	104	86
880-13941-12	S-1, 10	106	89
880-13941-13	S-2, 1	104	86
880-13941-14	S-2, 3	107	88
880-13941-15	S-2, 5	108	86
880-13941-16	S-2, 10	106	88
880-13941-17	S-6, 1	111	86
880-13941-18	S-6, 3	111	87
880-13941-19	S-6, 5	106	85
880-13941-20	S-6, 10	104	85
880-13941-21	S-5, 1	107	96
880-13941-22	S-5, 3	105	89
880-13941-23	S-5, 5	105	88
880-13941-24	S-5, 10	103	85
880-13941-25	S-3, 1	107	90
880-13941-26	S-3, 3	131 S1+	90
880-13941-27	S-3, 5	131 S1+	92
880-13941-28	S-3, 10	132 S1+	91
880-13941-29	S-4, 1	135 S1+	93
880-13941-30	S-4, 3	133 S1+	92
880-13941-31	S-4, 5	130	91
880-13941-32	S-4, 10	122	93
880-13941-33	S-11, 1	137 S1+	93
880-13941-34	S-11, 3	135 S1+	92
880-13941-35	S-11, 5	133 S1+	93
880-13941-36	S-11, 10	105	100
880-13941-37	S-7, 1	108	102
880-13941-38	S-7, 3	107	101
880-13941-39	S-7, 5	105	102
880-13941-40	S-7, 10	107	103
880-13941-41	S-8, 1	102	100
880-13941-42	S-8, 3	112	103
880-13941-43	S-8, 5	256 S1+	237 S1+
880-13941-44	S-8, 10	107	102
880-14143-A-21-E MS	Matrix Spike	102	100
880-14143-A-21-F MSD	Matrix Spike Duplicate	106	103
880-14236-A-101-D MS	Matrix Spike	109	88

Euromins Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-13941-1

Project/Site: Cotton Draw TB

SDG: 22-0105-05

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)
880-14236-A-101-E MSD	Matrix Spike Duplicate	105	93
880-14276-A-1-D MS	Matrix Spike	114	96
880-14276-A-1-E MSD	Matrix Spike Duplicate	124	99
880-14276-A-11-C MS	Matrix Spike	112	99
880-14276-A-11-D MSD	Matrix Spike Duplicate	106	101
LCS 880-24318/1-A	Lab Control Sample	112	97
LCS 880-24319/1-A	Lab Control Sample	101	101
LCS 880-24420/1-A	Lab Control Sample	101	99
LCS 880-24437/1-A	Lab Control Sample	110	98
LCS 880-24494/1-A	Lab Control Sample	99	98
LCS 880-24681/1-A	Lab Control Sample	127	101
LCSD 880-24318/2-A	Lab Control Sample Dup	112	97
LCSD 880-24319/2-A	Lab Control Sample Dup	104	101
LCSD 880-24420/2-A	Lab Control Sample Dup	110	101
LCSD 880-24437/2-A	Lab Control Sample Dup	109	96
LCSD 880-24494/2-A	Lab Control Sample Dup	100	98
LCSD 880-24681/2-A	Lab Control Sample Dup	123	100
MB 880-24318/5-A	Method Blank	94	87
MB 880-24319/5-A	Method Blank	98	96
MB 880-24420/5-A	Method Blank	99	97
MB 880-24437/5-B	Method Blank	99	90
MB 880-24483/5-A	Method Blank	100	93
MB 880-24494/5-A	Method Blank	100	91
MB 880-24681/5-A	Method Blank	88	83

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)
880-13939-A-1-B MS	Matrix Spike	76	79
880-13939-A-1-C MSD	Matrix Spike Duplicate	75	78
880-13941-1	S-10, 1	83	95
880-13941-1 MS	S-10, 1	78	80
880-13941-1 MSD	S-10, 1	79	79
880-13941-2	S-10, 3	102	118
880-13941-3	S-10, 5	92	103
880-13941-4	S-10, 10	101	118
880-13941-5	S-9, 1	87	96
880-13941-6	S-9, 3	87	97
880-13941-7	S-9, 5	83	95
880-13941-8	S-9, 10	85	96
880-13941-9	S-1, 1	85	94
880-13941-10	S-1, 3	85	98
880-13941-11	S-1, 5	84	93
880-13941-12	S-1, 10	83	93

Eurofins Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-13941-1

Project/Site: Cotton Draw TB

SDG: 22-0105-05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-13941-13	S-2, 1	83	91
880-13941-14	S-2, 3	94	108
880-13941-15	S-2, 5	95	108
880-13941-16	S-2, 10	85	96
880-13941-17	S-6, 1	89	101
880-13941-18	S-6, 3	87	99
880-13941-19	S-6, 5	90	104
880-13941-20	S-6, 10	89	102
880-13941-21	S-5, 1	81	95
880-13941-22	S-5, 3	79	95
880-13941-23	S-5, 5	79	94
880-13941-24	S-5, 10	81	89
880-13941-25	S-3, 1	94	101
880-13941-26	S-3, 3	91	101
880-13941-27	S-3, 5	94	116
880-13941-27 MS	S-3, 5	77	87
880-13941-27 MSD	S-3, 5	75	85
880-13941-28	S-3, 10	81	98
880-13941-29	S-4, 1	85	102
880-13941-30	S-4, 3	79	96
880-13941-31	S-4, 5	78	98
880-13941-32	S-4, 10	95	119
880-13941-33	S-11, 1	95	117
880-13941-34	S-11, 3	83	101
880-13941-35	S-11, 5	86	108
880-13941-36	S-11, 10	94	114
880-13941-37	S-7, 1	95	116
880-13941-38	S-7, 3	92	118
880-13941-39	S-7, 5	81	102
880-13941-40	S-7, 10	96	122
880-13941-41	S-8, 1	81	100
880-13941-42	S-8, 3	83	96
880-13941-43	S-8, 5	89	109
880-13941-44	S-8, 10	86	107

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO2 (70-130)	OTPH2 (70-130)
LCS 880-24015/2-A	Lab Control Sample	100	124
LCS 880-24054/2-A	Lab Control Sample	84	98
LCS 880-24168/2-A	Lab Control Sample	95	123
LCSD 880-24015/3-A	Lab Control Sample Dup	111	124
LCSD 880-24054/3-A	Lab Control Sample Dup	90	109
LCSD 880-24168/3-A	Lab Control Sample Dup	97	128

Eurofins Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

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	1CO2	OTPH2
		(70-130)	(70-130)
MB 880-24015/1-A	Method Blank	87	104
MB 880-24054/1-A	Method Blank	89	109
MB 880-24168/1-A	Method Blank	82	104
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-24318/5-A

Matrix: Solid

Analysis Batch: 24636

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24318

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/02/22 23:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/02/22 23:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/02/22 23:56	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		04/27/22 11:44	05/02/22 23:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:44	05/02/22 23:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/27/22 11:44	05/02/22 23:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	04/27/22 11:44	05/02/22 23:56	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/27/22 11:44	05/02/22 23:56	1

Lab Sample ID: LCS 880-24318/1-A

Matrix: Solid

Analysis Batch: 24636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08529		mg/Kg		85	70 - 130
Toluene	0.100	0.09099		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09875		mg/Kg		99	70 - 130
m,p-Xylenes	0.200	0.2001		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1033		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-24318/2-A

Matrix: Solid

Analysis Batch: 24636

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24318

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08613		mg/Kg		86	70 - 130	1	35
Toluene	0.100	0.09102		mg/Kg		91	70 - 130	0	35
Ethylbenzene	0.100	0.09983		mg/Kg		100	70 - 130	1	35
m,p-Xylenes	0.200	0.2016		mg/Kg		101	70 - 130	1	35
o-Xylene	0.100	0.1038		mg/Kg		104	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-13941-6 MS

Matrix: Solid

Analysis Batch: 24636

Client Sample ID: S-9, 3

Prep Type: Total/NA

Prep Batch: 24318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.07614		mg/Kg		76	70 - 130
Toluene	<0.00200	U	0.0996	0.07904		mg/Kg		79	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-13941-6 MS

Matrix: Solid

Analysis Batch: 24636

Client Sample ID: S-9, 3

Prep Type: Total/NA

Prep Batch: 24318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0996	0.08353		mg/Kg		84	70 - 130
m,p-Xylenes	<0.00399	U	0.199	0.1671		mg/Kg		84	70 - 130
o-Xylene	<0.00200	U	0.0996	0.08397		mg/Kg		84	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-13941-6 MSD

Matrix: Solid

Analysis Batch: 24636

Client Sample ID: S-9, 3

Prep Type: Total/NA

Prep Batch: 24318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.07044		mg/Kg		71	70 - 130	8	35
Toluene	<0.00200	U	0.0994	0.07270		mg/Kg		73	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.0994	0.07646		mg/Kg		77	70 - 130	9	35
m,p-Xylenes	<0.00399	U	0.199	0.1530		mg/Kg		77	70 - 130	9	35
o-Xylene	<0.00200	U	0.0994	0.07815		mg/Kg		79	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-24319/5-A

Matrix: Solid

Analysis Batch: 24740

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24319

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 17:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 17:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 17:02	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		04/27/22 11:49	05/03/22 17:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/27/22 11:49	05/03/22 17:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/27/22 11:49	05/03/22 17:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/27/22 11:49	05/03/22 17:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/27/22 11:49	05/03/22 17:02	1

Lab Sample ID: LCS 880-24319/1-A

Matrix: Solid

Analysis Batch: 24740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08370		mg/Kg		84	70 - 130
Toluene	0.100	0.08340		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08448		mg/Kg		84	70 - 130
m,p-Xylenes	0.200	0.1757		mg/Kg		88	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-24319/1-A

Matrix: Solid

Analysis Batch: 24740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09531		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-24319/2-A

Matrix: Solid

Analysis Batch: 24740

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24319

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09599		mg/Kg		96	70 - 130	14	35
Toluene	0.100	0.09590		mg/Kg		96	70 - 130	14	35
Ethylbenzene	0.100	0.09740		mg/Kg		97	70 - 130	14	35
m,p-Xylenes	0.200	0.2020		mg/Kg		101	70 - 130	14	35
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-14276-A-11-C MS

Matrix: Solid

Analysis Batch: 24740

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24319

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.07957		mg/Kg		80	70 - 130
Toluene	<0.00201	U	0.0996	0.08446		mg/Kg		85	70 - 130
Ethylbenzene	<0.00201	U	0.0996	0.08536		mg/Kg		86	70 - 130
m,p-Xylenes	<0.00402	U	0.199	0.1786		mg/Kg		90	70 - 130
o-Xylene	<0.00201	U	0.0996	0.09618		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-14276-A-11-D MSD

Matrix: Solid

Analysis Batch: 24740

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24319

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.0994	0.07637		mg/Kg		77	70 - 130	4	35
Toluene	<0.00201	U	0.0994	0.07520		mg/Kg		76	70 - 130	12	35
Ethylbenzene	<0.00201	U	0.0994	0.07637		mg/Kg		77	70 - 130	11	35
m,p-Xylenes	<0.00402	U	0.199	0.1593		mg/Kg		80	70 - 130	11	35
o-Xylene	<0.00201	U	0.0994	0.08674		mg/Kg		87	70 - 130	10	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14276-A-11-D MSD

Matrix: Solid

Analysis Batch: 24740

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24319

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-24420/5-A

Matrix: Solid

Analysis Batch: 24635

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24420

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/28/22 11:39	05/02/22 16:55	1	
Toluene	<0.00200	U	0.00200	mg/Kg		04/28/22 11:39	05/02/22 16:55	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/28/22 11:39	05/02/22 16:55	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		04/28/22 11:39	05/02/22 16:55	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/28/22 11:39	05/02/22 16:55	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/28/22 11:39	05/02/22 16:55	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	99		70 - 130	04/28/22 11:39	05/02/22 16:55	1			
1,4-Difluorobenzene (Surr)	97		70 - 130	04/28/22 11:39	05/02/22 16:55	1			

Lab Sample ID: LCS 880-24420/1-A

Matrix: Solid

Analysis Batch: 24635

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24420

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.08264		mg/Kg		83	70 - 130		
Toluene	0.100	0.08209		mg/Kg		82	70 - 130		
Ethylbenzene	0.100	0.08593		mg/Kg		86	70 - 130		
m,p-Xylenes	0.200	0.1755		mg/Kg		88	70 - 130		
o-Xylene	0.100	0.09610		mg/Kg		96	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-24420/2-A

Matrix: Solid

Analysis Batch: 24635

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24420

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08452		mg/Kg		85	70 - 130	2	35	
Toluene	0.100	0.08772		mg/Kg		88	70 - 130	7	35	
Ethylbenzene	0.100	0.09203		mg/Kg		92	70 - 130	7	35	
m,p-Xylenes	0.200	0.1917		mg/Kg		96	70 - 130	9	35	
o-Xylene	0.100	0.1056		mg/Kg		106	70 - 130	9	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-24420/2-A

Matrix: Solid

Analysis Batch: 24635

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24420

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-14143-A-21-E MS

Matrix: Solid

Analysis Batch: 24635

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24420

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0994	0.08105		mg/Kg		82	70 - 130
Toluene	<0.00201	U	0.0994	0.07976		mg/Kg		80	70 - 130
Ethylbenzene	<0.00201	U	0.0994	0.08398		mg/Kg		84	70 - 130
m,p-Xylenes	<0.00402	U	0.199	0.1734		mg/Kg		87	70 - 130
o-Xylene	<0.00201	U	0.0994	0.09573		mg/Kg		96	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-14143-A-21-F MSD

Matrix: Solid

Analysis Batch: 24635

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24420

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.09323		mg/Kg		94	70 - 130	14	35
Toluene	<0.00201	U	0.0990	0.09019		mg/Kg		91	70 - 130	12	35
Ethylbenzene	<0.00201	U	0.0990	0.09340		mg/Kg		94	70 - 130	11	35
m,p-Xylenes	<0.00402	U	0.198	0.1907		mg/Kg		96	70 - 130	10	35
o-Xylene	<0.00201	U	0.0990	0.1042		mg/Kg		105	70 - 130	8	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-24437/5-B

Matrix: Solid

Analysis Batch: 24636

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24437

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:00	05/02/22 13:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:00	05/02/22 13:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:00	05/02/22 13:04	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		05/02/22 08:00	05/02/22 13:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/22 08:00	05/02/22 13:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/02/22 08:00	05/02/22 13:04	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	99		70 - 130	05/02/22 08:00	05/02/22 13:04	1		
1,4-Difluorobenzene (Surr)	90		70 - 130	05/02/22 08:00	05/02/22 13:04	1		

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-24437/1-A

Matrix: Solid

Analysis Batch: 24636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08579		mg/Kg		86	70 - 130
Toluene	0.100	0.09000		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.09801		mg/Kg		98	70 - 130
m,p-Xylenes	0.200	0.1980		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-24437/2-A

Matrix: Solid

Analysis Batch: 24636

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24437

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08259		mg/Kg		83	70 - 130	4	35
Toluene	0.100	0.08659		mg/Kg		87	70 - 130	4	35
Ethylbenzene	0.100	0.09481		mg/Kg		95	70 - 130	3	35
m,p-Xylenes	0.200	0.1917		mg/Kg		96	70 - 130	3	35
o-Xylene	0.100	0.09736		mg/Kg		97	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-24483/5-A

Matrix: Solid

Analysis Batch: 24523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24483

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/29/22 09:22	04/29/22 16:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/29/22 09:22	04/29/22 16:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/29/22 09:22	04/29/22 16:00	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		04/29/22 09:22	04/29/22 16:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/29/22 09:22	04/29/22 16:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/29/22 09:22	04/29/22 16:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/29/22 09:22	04/29/22 16:00	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/29/22 09:22	04/29/22 16:00	1

Lab Sample ID: MB 880-24494/5-A

Matrix: Solid

Analysis Batch: 24523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24494

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/29/22 09:27	04/30/22 02:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/29/22 09:27	04/30/22 02:35	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-24494/5-A

Matrix: Solid

Analysis Batch: 24523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24494

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/29/22 09:27	04/30/22 02:35	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		04/29/22 09:27	04/30/22 02:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/29/22 09:27	04/30/22 02:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/29/22 09:27	04/30/22 02:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/29/22 09:27	04/30/22 02:35	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/29/22 09:27	04/30/22 02:35	1

Lab Sample ID: LCS 880-24494/1-A

Matrix: Solid

Analysis Batch: 24523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09940		mg/Kg		99	70 - 130
Toluene	0.100	0.09845		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09885		mg/Kg		99	70 - 130
m,p-Xylenes	0.200	0.1974		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09949		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-24494/2-A

Matrix: Solid

Analysis Batch: 24523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08326		mg/Kg		83	70 - 130	18	35
Toluene	0.100	0.08132		mg/Kg		81	70 - 130	19	35
Ethylbenzene	0.100	0.08071		mg/Kg		81	70 - 130	20	35
m,p-Xylenes	0.200	0.1620		mg/Kg		81	70 - 130	20	35
o-Xylene	0.100	0.08429		mg/Kg		84	70 - 130	17	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-14236-A-101-D MS

Matrix: Solid

Analysis Batch: 24523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1 F2	0.101	0.01649	F1	mg/Kg		16	70 - 130
Toluene	<0.00199	U F1 F2	0.101	0.02799	F1	mg/Kg		28	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.101	0.02847	F1	mg/Kg		28	70 - 130
m,p-Xylenes	<0.00398	U F1 F2	0.202	0.05897	F1	mg/Kg		29	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14236-A-101-D MS

Matrix: Solid

Analysis Batch: 24523

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00199	U F1	0.101	0.03876	F1	mg/Kg		38	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-14236-A-101-E MSD

Matrix: Solid

Analysis Batch: 24523

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U F1 F2	0.100	0.02714	F1 F2	mg/Kg		27	70 - 130	49	35
Toluene	<0.00199	U F1 F2	0.100	0.04151	F1 F2	mg/Kg		41	70 - 130	39	35
Ethylbenzene	<0.00199	U F1 F2	0.100	0.04464	F1 F2	mg/Kg		45	70 - 130	44	35
m,p-Xylenes	<0.00398	U F1 F2	0.200	0.08628	F1 F2	mg/Kg		43	70 - 130	38	35
o-Xylene	<0.00199	U F1	0.100	0.04867	F1	mg/Kg		49	70 - 130	23	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-24681/5-A

Matrix: Solid

Analysis Batch: 24735

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24681

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 15:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 15:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 15:19	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		05/02/22 15:28	05/03/22 15:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/22 15:28	05/03/22 15:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/02/22 15:28	05/03/22 15:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	05/02/22 15:28	05/03/22 15:19	1
1,4-Difluorobenzene (Surr)	83		70 - 130	05/02/22 15:28	05/03/22 15:19	1

Lab Sample ID: LCS 880-24681/1-A

Matrix: Solid

Analysis Batch: 24735

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1206		mg/Kg		121	70 - 130
Toluene	0.100	0.1041		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1146		mg/Kg		115	70 - 130
m,p-Xylenes	0.200	0.2332		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1132		mg/Kg		113	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-24681/1-A

Matrix: Solid

Analysis Batch: 24735

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24681

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-24681/2-A

Matrix: Solid

Analysis Batch: 24735

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24681

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1135		mg/Kg		114	70 - 130	6	35
Toluene	0.100	0.09787		mg/Kg		98	70 - 130	6	35
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130	4	35
m,p-Xylenes	0.200	0.2250		mg/Kg		112	70 - 130	4	35
o-Xylene	0.100	0.1083		mg/Kg		108	70 - 130	4	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-14276-A-1-D MS

Matrix: Solid

Analysis Batch: 24735

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24681

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.1045		mg/Kg		105	70 - 130
Toluene	<0.00201	U	0.0996	0.08912		mg/Kg		89	70 - 130
Ethylbenzene	<0.00201	U	0.0996	0.09900		mg/Kg		99	70 - 130
m,p-Xylenes	<0.00402	U	0.199	0.2035		mg/Kg		102	70 - 130
o-Xylene	<0.00201	U	0.0996	0.09905		mg/Kg		99	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-14276-A-1-E MSD

Matrix: Solid

Analysis Batch: 24735

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24681

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	0.09811		mg/Kg		99	70 - 130	6	35
Toluene	<0.00201	U	0.0990	0.08414		mg/Kg		85	70 - 130	6	35
Ethylbenzene	<0.00201	U	0.0990	0.09148		mg/Kg		92	70 - 130	8	35
m,p-Xylenes	<0.00402	U	0.198	0.1884		mg/Kg		95	70 - 130	8	35
o-Xylene	<0.00201	U	0.0990	0.09273		mg/Kg		94	70 - 130	7	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

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

Lab Sample ID: MB 880-24015/1-A

Matrix: Solid

Analysis Batch: 24107

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24015

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		04/22/22 10:03	04/24/22 11:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 11:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 10:03	04/24/22 11:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130	04/22/22 10:03	04/24/22 11:43	1
o-Terphenyl (Surr)	104		70 - 130	04/22/22 10:03	04/24/22 11:43	1

Lab Sample ID: LCS 880-24015/2-A

Matrix: Solid

Analysis Batch: 24107

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24015

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	800.9		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	981.6		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	124		70 - 130

Lab Sample ID: LCSD 880-24015/3-A

Matrix: Solid

Analysis Batch: 24107

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24015

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	860.9		mg/Kg		86	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1004		mg/Kg		100	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	111		70 - 130
o-Terphenyl (Surr)	124		70 - 130

Lab Sample ID: 880-13941-1 MS

Matrix: Solid

Analysis Batch: 24107

Client Sample ID: S-10, 1

Prep Type: Total/NA

Prep Batch: 24015

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	919.6		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	794.6		mg/Kg		77	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

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

Lab Sample ID: 880-13941-1 MS

Matrix: Solid

Analysis Batch: 24107

Client Sample ID: S-10, 1

Prep Type: Total/NA

Prep Batch: 24015

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	78		70 - 130
o-Terphenyl (Surr)	80		70 - 130

Lab Sample ID: 880-13941-1 MSD

Matrix: Solid

Analysis Batch: 24107

Client Sample ID: S-10, 1

Prep Type: Total/NA

Prep Batch: 24015

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	<49.9	U	999	915.0		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	801.7		mg/Kg		78	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	79		70 - 130
o-Terphenyl (Surr)	79		70 - 130

Lab Sample ID: MB 880-24054/1-A

Matrix: Solid

Analysis Batch: 24113

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24054

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		04/22/22 14:53	04/25/22 11:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/22 14:53	04/25/22 11:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/22 14:53	04/25/22 11:25	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	89		70 - 130	04/22/22 14:53	04/25/22 11:25	1
o-Terphenyl (Surr)	109		70 - 130	04/22/22 14:53	04/25/22 11:25	1

Lab Sample ID: LCS 880-24054/2-A

Matrix: Solid

Analysis Batch: 24113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	777.1		mg/Kg		78	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	84		70 - 130
o-Terphenyl (Surr)	98		70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

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

Lab Sample ID: LCSD 880-24054/3-A

Matrix: Solid

Analysis Batch: 24113

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24054

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1035		mg/Kg		103	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	856.2		mg/Kg		86	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	90		70 - 130						
o-Terphenyl (Surr)	109		70 - 130						

Lab Sample ID: 880-13939-A-1-B MS

Matrix: Solid

Analysis Batch: 24113

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24054

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	959.5		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	845.0		mg/Kg		82	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	76		70 - 130								
o-Terphenyl (Surr)	79		70 - 130								

Lab Sample ID: 880-13939-A-1-C MSD

Matrix: Solid

Analysis Batch: 24113

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24054

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	<49.9	U	999	969.6		mg/Kg		97	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	841.3		mg/Kg		82	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	75		70 - 130								
o-Terphenyl (Surr)	78		70 - 130								

Lab Sample ID: MB 880-24168/1-A

Matrix: Solid

Analysis Batch: 24215

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24168

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		04/25/22 11:18	04/26/22 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/26/22 19:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/25/22 11:18	04/26/22 19:33	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

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

Lab Sample ID: MB 880-24168/1-A

Matrix: Solid

Analysis Batch: 24215

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24168

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	04/25/22 11:18	04/26/22 19:33	1
o-Terphenyl (Surr)	104		70 - 130	04/25/22 11:18	04/26/22 19:33	1

Lab Sample ID: LCS 880-24168/2-A

Matrix: Solid

Analysis Batch: 24215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1040		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	943.0		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	123		70 - 130

Lab Sample ID: LCSD 880-24168/3-A

Matrix: Solid

Analysis Batch: 24215

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24168

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	986.2		mg/Kg		99	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	885.3		mg/Kg		89	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	97		70 - 130
o-Terphenyl (Surr)	128		70 - 130

Lab Sample ID: 880-13941-27 MS

Matrix: Solid

Analysis Batch: 24215

Client Sample ID: S-3, 5

Prep Type: Total/NA

Prep Batch: 24168

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	799.0		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	704.0	F1	mg/Kg		68	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	77		70 - 130
o-Terphenyl (Surr)	87		70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

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

Lab Sample ID: 880-13941-27 MSD

Matrix: Solid

Analysis Batch: 24215

Client Sample ID: S-3, 5

Prep Type: Total/NA

Prep Batch: 24168

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	<49.9	U	999	792.3		mg/Kg		77	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	699.4	F1	mg/Kg		68	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	75		70 - 130								
o-Terphenyl (Surr)	85		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24156/1-A

Matrix: Solid

Analysis Batch: 24387

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			04/28/22 09:01	1

Lab Sample ID: LCS 880-24156/2-A

Matrix: Solid

Analysis Batch: 24387

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.1		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-24156/3-A

Matrix: Solid

Analysis Batch: 24387

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	254.5		mg/Kg		102	90 - 110	4	20

Lab Sample ID: 880-13941-1 MS

Matrix: Solid

Analysis Batch: 24387

Client Sample ID: S-10, 1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	128		248	381.4		mg/Kg		102	90 - 110

Lab Sample ID: 880-13941-1 MSD

Matrix: Solid

Analysis Batch: 24387

Client Sample ID: S-10, 1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	128		248	380.1		mg/Kg		102	90 - 110	0	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-13941-11 MS

Matrix: Solid

Analysis Batch: 24387

Client Sample ID: S-1, 5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.39		250	271.9		mg/Kg		107	90 - 110

Lab Sample ID: 880-13941-11 MSD

Matrix: Solid

Analysis Batch: 24387

Client Sample ID: S-1, 5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.39		250	271.5		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-24157/1-A

Matrix: Solid

Analysis Batch: 24398

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			04/28/22 14:19	1

Lab Sample ID: LCS 880-24157/2-A

Matrix: Solid

Analysis Batch: 24398

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.6		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-24157/3-A

Matrix: Solid

Analysis Batch: 24398

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	253.9		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-13941-21 MS

Matrix: Solid

Analysis Batch: 24398

Client Sample ID: S-5, 1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2220	F1	1250	3606	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-13941-21 MSD

Matrix: Solid

Analysis Batch: 24398

Client Sample ID: S-5, 1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2220	F1	1250	3501		mg/Kg		103	90 - 110	3	20

Lab Sample ID: 880-13941-31 MS

Matrix: Solid

Analysis Batch: 24398

Client Sample ID: S-4, 5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14.7		250	280.5		mg/Kg		107	90 - 110

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-13941-31 MSD

Matrix: Solid

Analysis Batch: 24398

Client Sample ID: S-4, 5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14.7		250	272.1		mg/Kg		103	90 - 110	3	20

Lab Sample ID: MB 880-24158/1-A

Matrix: Solid

Analysis Batch: 24399

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			04/28/22 23:46	1

Lab Sample ID: LCS 880-24158/2-A

Matrix: Solid

Analysis Batch: 24399

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	271.2		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-24158/3-A

Matrix: Solid

Analysis Batch: 24399

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	271.5		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-13941-41 MS

Matrix: Solid

Analysis Batch: 24399

Client Sample ID: S-8, 1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	121		248	384.3		mg/Kg		107	90 - 110

Lab Sample ID: 880-13941-41 MSD

Matrix: Solid

Analysis Batch: 24399

Client Sample ID: S-8, 1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	121		248	383.3		mg/Kg		106	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

GC VOA

Prep Batch: 24318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-6	S-9, 3	Total/NA	Solid	5035	
880-13941-7	S-9, 5	Total/NA	Solid	5035	
880-13941-8	S-9, 10	Total/NA	Solid	5035	
880-13941-9	S-1, 1	Total/NA	Solid	5035	
880-13941-10	S-1, 3	Total/NA	Solid	5035	
880-13941-11	S-1, 5	Total/NA	Solid	5035	
880-13941-12	S-1, 10	Total/NA	Solid	5035	
880-13941-13	S-2, 1	Total/NA	Solid	5035	
880-13941-14	S-2, 3	Total/NA	Solid	5035	
880-13941-15	S-2, 5	Total/NA	Solid	5035	
880-13941-16	S-2, 10	Total/NA	Solid	5035	
880-13941-17	S-6, 1	Total/NA	Solid	5035	
880-13941-18	S-6, 3	Total/NA	Solid	5035	
880-13941-19	S-6, 5	Total/NA	Solid	5035	
880-13941-20	S-6, 10	Total/NA	Solid	5035	
880-13941-22	S-5, 3	Total/NA	Solid	5035	
880-13941-23	S-5, 5	Total/NA	Solid	5035	
880-13941-24	S-5, 10	Total/NA	Solid	5035	
880-13941-25	S-3, 1	Total/NA	Solid	5035	
MB 880-24318/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24318/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24318/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-13941-6 MS	S-9, 3	Total/NA	Solid	5035	
880-13941-6 MSD	S-9, 3	Total/NA	Solid	5035	

Prep Batch: 24319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-36	S-11, 10	Total/NA	Solid	5035	
880-13941-37	S-7, 1	Total/NA	Solid	5035	
880-13941-38	S-7, 3	Total/NA	Solid	5035	
880-13941-39	S-7, 5	Total/NA	Solid	5035	
880-13941-40	S-7, 10	Total/NA	Solid	5035	
880-13941-41	S-8, 1	Total/NA	Solid	5035	
880-13941-42	S-8, 3	Total/NA	Solid	5035	
880-13941-43	S-8, 5	Total/NA	Solid	5035	
880-13941-44	S-8, 10	Total/NA	Solid	5035	
MB 880-24319/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24319/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24319/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14276-A-11-C MS	Matrix Spike	Total/NA	Solid	5035	
880-14276-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 24420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-5	S-9, 1	Total/NA	Solid	5035	
MB 880-24420/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24420/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24420/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14143-A-21-E MS	Matrix Spike	Total/NA	Solid	5035	
880-14143-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

GC VOA

Prep Batch: 24437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-1	S-10, 1	Total/NA	Solid	5035	
880-13941-2	S-10, 3	Total/NA	Solid	5035	
880-13941-3	S-10, 5	Total/NA	Solid	5035	
880-13941-4	S-10, 10	Total/NA	Solid	5035	
MB 880-24437/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-24437/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24437/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 24483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-24483/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 24494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-21	S-5, 1	Total/NA	Solid	5035	
MB 880-24494/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24494/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14236-A-101-D MS	Matrix Spike	Total/NA	Solid	5035	
880-14236-A-101-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-21	S-5, 1	Total/NA	Solid	8021B	24494
MB 880-24483/5-A	Method Blank	Total/NA	Solid	8021B	24483
MB 880-24494/5-A	Method Blank	Total/NA	Solid	8021B	24494
LCS 880-24494/1-A	Lab Control Sample	Total/NA	Solid	8021B	24494
LCSD 880-24494/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24494
880-14236-A-101-D MS	Matrix Spike	Total/NA	Solid	8021B	24494
880-14236-A-101-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24494

Analysis Batch: 24603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-1	S-10, 1	Total/NA	Solid	Total BTEX	
880-13941-2	S-10, 3	Total/NA	Solid	Total BTEX	
880-13941-3	S-10, 5	Total/NA	Solid	Total BTEX	
880-13941-4	S-10, 10	Total/NA	Solid	Total BTEX	
880-13941-5	S-9, 1	Total/NA	Solid	Total BTEX	
880-13941-6	S-9, 3	Total/NA	Solid	Total BTEX	
880-13941-7	S-9, 5	Total/NA	Solid	Total BTEX	
880-13941-8	S-9, 10	Total/NA	Solid	Total BTEX	
880-13941-9	S-1, 1	Total/NA	Solid	Total BTEX	
880-13941-10	S-1, 3	Total/NA	Solid	Total BTEX	
880-13941-11	S-1, 5	Total/NA	Solid	Total BTEX	
880-13941-12	S-1, 10	Total/NA	Solid	Total BTEX	
880-13941-13	S-2, 1	Total/NA	Solid	Total BTEX	
880-13941-14	S-2, 3	Total/NA	Solid	Total BTEX	
880-13941-15	S-2, 5	Total/NA	Solid	Total BTEX	
880-13941-16	S-2, 10	Total/NA	Solid	Total BTEX	
880-13941-17	S-6, 1	Total/NA	Solid	Total BTEX	
880-13941-18	S-6, 3	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

GC VOA (Continued)

Analysis Batch: 24603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-19	S-6, 5	Total/NA	Solid	Total BTEX	
880-13941-20	S-6, 10	Total/NA	Solid	Total BTEX	
880-13941-21	S-5, 1	Total/NA	Solid	Total BTEX	
880-13941-22	S-5, 3	Total/NA	Solid	Total BTEX	
880-13941-23	S-5, 5	Total/NA	Solid	Total BTEX	
880-13941-24	S-5, 10	Total/NA	Solid	Total BTEX	
880-13941-25	S-3, 1	Total/NA	Solid	Total BTEX	
880-13941-26	S-3, 3	Total/NA	Solid	Total BTEX	
880-13941-27	S-3, 5	Total/NA	Solid	Total BTEX	
880-13941-28	S-3, 10	Total/NA	Solid	Total BTEX	
880-13941-29	S-4, 1	Total/NA	Solid	Total BTEX	
880-13941-30	S-4, 3	Total/NA	Solid	Total BTEX	
880-13941-31	S-4, 5	Total/NA	Solid	Total BTEX	
880-13941-32	S-4, 10	Total/NA	Solid	Total BTEX	
880-13941-33	S-11, 1	Total/NA	Solid	Total BTEX	
880-13941-34	S-11, 3	Total/NA	Solid	Total BTEX	
880-13941-35	S-11, 5	Total/NA	Solid	Total BTEX	
880-13941-36	S-11, 10	Total/NA	Solid	Total BTEX	
880-13941-37	S-7, 1	Total/NA	Solid	Total BTEX	
880-13941-38	S-7, 3	Total/NA	Solid	Total BTEX	
880-13941-39	S-7, 5	Total/NA	Solid	Total BTEX	
880-13941-40	S-7, 10	Total/NA	Solid	Total BTEX	
880-13941-41	S-8, 1	Total/NA	Solid	Total BTEX	
880-13941-42	S-8, 3	Total/NA	Solid	Total BTEX	
880-13941-43	S-8, 5	Total/NA	Solid	Total BTEX	
880-13941-44	S-8, 10	Total/NA	Solid	Total BTEX	

Analysis Batch: 24635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-5	S-9, 1	Total/NA	Solid	8021B	24420
MB 880-24420/5-A	Method Blank	Total/NA	Solid	8021B	24420
LCS 880-24420/1-A	Lab Control Sample	Total/NA	Solid	8021B	24420
LCSD 880-24420/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24420
880-14143-A-21-E MS	Matrix Spike	Total/NA	Solid	8021B	24420
880-14143-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24420

Analysis Batch: 24636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-1	S-10, 1	Total/NA	Solid	8021B	24437
880-13941-2	S-10, 3	Total/NA	Solid	8021B	24437
880-13941-3	S-10, 5	Total/NA	Solid	8021B	24437
880-13941-4	S-10, 10	Total/NA	Solid	8021B	24437
880-13941-6	S-9, 3	Total/NA	Solid	8021B	24318
880-13941-7	S-9, 5	Total/NA	Solid	8021B	24318
880-13941-8	S-9, 10	Total/NA	Solid	8021B	24318
880-13941-9	S-1, 1	Total/NA	Solid	8021B	24318
880-13941-10	S-1, 3	Total/NA	Solid	8021B	24318
880-13941-11	S-1, 5	Total/NA	Solid	8021B	24318
880-13941-12	S-1, 10	Total/NA	Solid	8021B	24318
880-13941-13	S-2, 1	Total/NA	Solid	8021B	24318
880-13941-14	S-2, 3	Total/NA	Solid	8021B	24318

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

GC VOA (Continued)

Analysis Batch: 24636 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-15	S-2, 5	Total/NA	Solid	8021B	24318
880-13941-16	S-2, 10	Total/NA	Solid	8021B	24318
880-13941-17	S-6, 1	Total/NA	Solid	8021B	24318
880-13941-18	S-6, 3	Total/NA	Solid	8021B	24318
880-13941-19	S-6, 5	Total/NA	Solid	8021B	24318
880-13941-20	S-6, 10	Total/NA	Solid	8021B	24318
880-13941-22	S-5, 3	Total/NA	Solid	8021B	24318
880-13941-23	S-5, 5	Total/NA	Solid	8021B	24318
880-13941-24	S-5, 10	Total/NA	Solid	8021B	24318
880-13941-25	S-3, 1	Total/NA	Solid	8021B	24318
MB 880-24318/5-A	Method Blank	Total/NA	Solid	8021B	24318
MB 880-24437/5-B	Method Blank	Total/NA	Solid	8021B	24437
LCS 880-24318/1-A	Lab Control Sample	Total/NA	Solid	8021B	24318
LCS 880-24437/1-A	Lab Control Sample	Total/NA	Solid	8021B	24437
LCSD 880-24318/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24318
LCSD 880-24437/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24437
880-13941-6 MS	S-9, 3	Total/NA	Solid	8021B	24318
880-13941-6 MSD	S-9, 3	Total/NA	Solid	8021B	24318

Prep Batch: 24681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-26	S-3, 3	Total/NA	Solid	5035	
880-13941-27	S-3, 5	Total/NA	Solid	5035	
880-13941-28	S-3, 10	Total/NA	Solid	5035	
880-13941-29	S-4, 1	Total/NA	Solid	5035	
880-13941-30	S-4, 3	Total/NA	Solid	5035	
880-13941-31	S-4, 5	Total/NA	Solid	5035	
880-13941-32	S-4, 10	Total/NA	Solid	5035	
880-13941-33	S-11, 1	Total/NA	Solid	5035	
880-13941-34	S-11, 3	Total/NA	Solid	5035	
880-13941-35	S-11, 5	Total/NA	Solid	5035	
MB 880-24681/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24681/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24681/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14276-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-14276-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-26	S-3, 3	Total/NA	Solid	8021B	24681
880-13941-27	S-3, 5	Total/NA	Solid	8021B	24681
880-13941-28	S-3, 10	Total/NA	Solid	8021B	24681
880-13941-29	S-4, 1	Total/NA	Solid	8021B	24681
880-13941-30	S-4, 3	Total/NA	Solid	8021B	24681
880-13941-31	S-4, 5	Total/NA	Solid	8021B	24681
880-13941-32	S-4, 10	Total/NA	Solid	8021B	24681
880-13941-33	S-11, 1	Total/NA	Solid	8021B	24681
880-13941-34	S-11, 3	Total/NA	Solid	8021B	24681
880-13941-35	S-11, 5	Total/NA	Solid	8021B	24681
MB 880-24681/5-A	Method Blank	Total/NA	Solid	8021B	24681
LCS 880-24681/1-A	Lab Control Sample	Total/NA	Solid	8021B	24681

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

GC VOA (Continued)

Analysis Batch: 24735 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-24681/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24681
880-14276-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	24681
880-14276-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24681

Analysis Batch: 24740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-36	S-11, 10	Total/NA	Solid	8021B	24319
880-13941-37	S-7, 1	Total/NA	Solid	8021B	24319
880-13941-38	S-7, 3	Total/NA	Solid	8021B	24319
880-13941-39	S-7, 5	Total/NA	Solid	8021B	24319
880-13941-40	S-7, 10	Total/NA	Solid	8021B	24319
880-13941-41	S-8, 1	Total/NA	Solid	8021B	24319
880-13941-42	S-8, 3	Total/NA	Solid	8021B	24319
880-13941-43	S-8, 5	Total/NA	Solid	8021B	24319
880-13941-44	S-8, 10	Total/NA	Solid	8021B	24319
MB 880-24319/5-A	Method Blank	Total/NA	Solid	8021B	24319
LCS 880-24319/1-A	Lab Control Sample	Total/NA	Solid	8021B	24319
LCSD 880-24319/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24319
880-14276-A-11-C MS	Matrix Spike	Total/NA	Solid	8021B	24319
880-14276-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24319

GC Semi VOA

Prep Batch: 24015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-1	S-10, 1	Total/NA	Solid	8015NM Prep	
880-13941-2	S-10, 3	Total/NA	Solid	8015NM Prep	
880-13941-3	S-10, 5	Total/NA	Solid	8015NM Prep	
880-13941-4	S-10, 10	Total/NA	Solid	8015NM Prep	
880-13941-5	S-9, 1	Total/NA	Solid	8015NM Prep	
880-13941-6	S-9, 3	Total/NA	Solid	8015NM Prep	
880-13941-7	S-9, 5	Total/NA	Solid	8015NM Prep	
880-13941-8	S-9, 10	Total/NA	Solid	8015NM Prep	
880-13941-9	S-1, 1	Total/NA	Solid	8015NM Prep	
880-13941-10	S-1, 3	Total/NA	Solid	8015NM Prep	
880-13941-11	S-1, 5	Total/NA	Solid	8015NM Prep	
880-13941-12	S-1, 10	Total/NA	Solid	8015NM Prep	
880-13941-13	S-2, 1	Total/NA	Solid	8015NM Prep	
880-13941-14	S-2, 3	Total/NA	Solid	8015NM Prep	
880-13941-15	S-2, 5	Total/NA	Solid	8015NM Prep	
880-13941-16	S-2, 10	Total/NA	Solid	8015NM Prep	
880-13941-17	S-6, 1	Total/NA	Solid	8015NM Prep	
880-13941-18	S-6, 3	Total/NA	Solid	8015NM Prep	
880-13941-19	S-6, 5	Total/NA	Solid	8015NM Prep	
880-13941-20	S-6, 10	Total/NA	Solid	8015NM Prep	
MB 880-24015/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24015/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24015/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-13941-1 MS	S-10, 1	Total/NA	Solid	8015NM Prep	
880-13941-1 MSD	S-10, 1	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

GC Semi VOA

Prep Batch: 24054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-21	S-5, 1	Total/NA	Solid	8015NM Prep	
880-13941-22	S-5, 3	Total/NA	Solid	8015NM Prep	
880-13941-23	S-5, 5	Total/NA	Solid	8015NM Prep	
880-13941-24	S-5, 10	Total/NA	Solid	8015NM Prep	
880-13941-25	S-3, 1	Total/NA	Solid	8015NM Prep	
880-13941-26	S-3, 3	Total/NA	Solid	8015NM Prep	
MB 880-24054/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24054/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24054/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-13939-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-13939-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-1	S-10, 1	Total/NA	Solid	8015B NM	24015
880-13941-2	S-10, 3	Total/NA	Solid	8015B NM	24015
880-13941-3	S-10, 5	Total/NA	Solid	8015B NM	24015
880-13941-4	S-10, 10	Total/NA	Solid	8015B NM	24015
880-13941-5	S-9, 1	Total/NA	Solid	8015B NM	24015
880-13941-6	S-9, 3	Total/NA	Solid	8015B NM	24015
880-13941-7	S-9, 5	Total/NA	Solid	8015B NM	24015
880-13941-8	S-9, 10	Total/NA	Solid	8015B NM	24015
880-13941-9	S-1, 1	Total/NA	Solid	8015B NM	24015
880-13941-10	S-1, 3	Total/NA	Solid	8015B NM	24015
880-13941-11	S-1, 5	Total/NA	Solid	8015B NM	24015
880-13941-12	S-1, 10	Total/NA	Solid	8015B NM	24015
880-13941-13	S-2, 1	Total/NA	Solid	8015B NM	24015
880-13941-14	S-2, 3	Total/NA	Solid	8015B NM	24015
880-13941-15	S-2, 5	Total/NA	Solid	8015B NM	24015
880-13941-16	S-2, 10	Total/NA	Solid	8015B NM	24015
880-13941-17	S-6, 1	Total/NA	Solid	8015B NM	24015
880-13941-18	S-6, 3	Total/NA	Solid	8015B NM	24015
880-13941-19	S-6, 5	Total/NA	Solid	8015B NM	24015
880-13941-20	S-6, 10	Total/NA	Solid	8015B NM	24015
MB 880-24015/1-A	Method Blank	Total/NA	Solid	8015B NM	24015
LCS 880-24015/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24015
LCSD 880-24015/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24015
880-13941-1 MS	S-10, 1	Total/NA	Solid	8015B NM	24015
880-13941-1 MSD	S-10, 1	Total/NA	Solid	8015B NM	24015

Analysis Batch: 24113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-21	S-5, 1	Total/NA	Solid	8015B NM	24054
880-13941-22	S-5, 3	Total/NA	Solid	8015B NM	24054
880-13941-23	S-5, 5	Total/NA	Solid	8015B NM	24054
880-13941-24	S-5, 10	Total/NA	Solid	8015B NM	24054
880-13941-25	S-3, 1	Total/NA	Solid	8015B NM	24054
880-13941-26	S-3, 3	Total/NA	Solid	8015B NM	24054
MB 880-24054/1-A	Method Blank	Total/NA	Solid	8015B NM	24054
LCS 880-24054/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24054
LCSD 880-24054/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24054

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

GC Semi VOA (Continued)

Analysis Batch: 24113 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13939-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	24054
880-13939-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24054

Prep Batch: 24168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-27	S-3, 5	Total/NA	Solid	8015NM Prep	
880-13941-28	S-3, 10	Total/NA	Solid	8015NM Prep	
880-13941-29	S-4, 1	Total/NA	Solid	8015NM Prep	
880-13941-30	S-4, 3	Total/NA	Solid	8015NM Prep	
880-13941-31	S-4, 5	Total/NA	Solid	8015NM Prep	
880-13941-32	S-4, 10	Total/NA	Solid	8015NM Prep	
880-13941-33	S-11, 1	Total/NA	Solid	8015NM Prep	
880-13941-34	S-11, 3	Total/NA	Solid	8015NM Prep	
880-13941-35	S-11, 5	Total/NA	Solid	8015NM Prep	
880-13941-36	S-11, 10	Total/NA	Solid	8015NM Prep	
880-13941-37	S-7, 1	Total/NA	Solid	8015NM Prep	
880-13941-38	S-7, 3	Total/NA	Solid	8015NM Prep	
880-13941-39	S-7, 5	Total/NA	Solid	8015NM Prep	
880-13941-40	S-7, 10	Total/NA	Solid	8015NM Prep	
880-13941-41	S-8, 1	Total/NA	Solid	8015NM Prep	
880-13941-42	S-8, 3	Total/NA	Solid	8015NM Prep	
880-13941-43	S-8, 5	Total/NA	Solid	8015NM Prep	
880-13941-44	S-8, 10	Total/NA	Solid	8015NM Prep	
MB 880-24168/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24168/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-13941-27 MS	S-3, 5	Total/NA	Solid	8015NM Prep	
880-13941-27 MSD	S-3, 5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-1	S-10, 1	Total/NA	Solid	8015 NM	
880-13941-2	S-10, 3	Total/NA	Solid	8015 NM	
880-13941-3	S-10, 5	Total/NA	Solid	8015 NM	
880-13941-4	S-10, 10	Total/NA	Solid	8015 NM	
880-13941-5	S-9, 1	Total/NA	Solid	8015 NM	
880-13941-6	S-9, 3	Total/NA	Solid	8015 NM	
880-13941-7	S-9, 5	Total/NA	Solid	8015 NM	
880-13941-8	S-9, 10	Total/NA	Solid	8015 NM	
880-13941-9	S-1, 1	Total/NA	Solid	8015 NM	
880-13941-10	S-1, 3	Total/NA	Solid	8015 NM	
880-13941-11	S-1, 5	Total/NA	Solid	8015 NM	
880-13941-12	S-1, 10	Total/NA	Solid	8015 NM	
880-13941-13	S-2, 1	Total/NA	Solid	8015 NM	
880-13941-14	S-2, 3	Total/NA	Solid	8015 NM	
880-13941-15	S-2, 5	Total/NA	Solid	8015 NM	
880-13941-16	S-2, 10	Total/NA	Solid	8015 NM	
880-13941-17	S-6, 1	Total/NA	Solid	8015 NM	
880-13941-18	S-6, 3	Total/NA	Solid	8015 NM	
880-13941-19	S-6, 5	Total/NA	Solid	8015 NM	
880-13941-20	S-6, 10	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

GC Semi VOA (Continued)

Analysis Batch: 24195 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-21	S-5, 1	Total/NA	Solid	8015 NM	
880-13941-22	S-5, 3	Total/NA	Solid	8015 NM	
880-13941-23	S-5, 5	Total/NA	Solid	8015 NM	
880-13941-24	S-5, 10	Total/NA	Solid	8015 NM	
880-13941-25	S-3, 1	Total/NA	Solid	8015 NM	
880-13941-26	S-3, 3	Total/NA	Solid	8015 NM	
880-13941-27	S-3, 5	Total/NA	Solid	8015 NM	
880-13941-28	S-3, 10	Total/NA	Solid	8015 NM	
880-13941-29	S-4, 1	Total/NA	Solid	8015 NM	
880-13941-30	S-4, 3	Total/NA	Solid	8015 NM	
880-13941-31	S-4, 5	Total/NA	Solid	8015 NM	
880-13941-32	S-4, 10	Total/NA	Solid	8015 NM	
880-13941-33	S-11, 1	Total/NA	Solid	8015 NM	
880-13941-34	S-11, 3	Total/NA	Solid	8015 NM	
880-13941-35	S-11, 5	Total/NA	Solid	8015 NM	
880-13941-36	S-11, 10	Total/NA	Solid	8015 NM	
880-13941-37	S-7, 1	Total/NA	Solid	8015 NM	
880-13941-38	S-7, 3	Total/NA	Solid	8015 NM	
880-13941-39	S-7, 5	Total/NA	Solid	8015 NM	
880-13941-40	S-7, 10	Total/NA	Solid	8015 NM	
880-13941-41	S-8, 1	Total/NA	Solid	8015 NM	
880-13941-42	S-8, 3	Total/NA	Solid	8015 NM	
880-13941-43	S-8, 5	Total/NA	Solid	8015 NM	
880-13941-44	S-8, 10	Total/NA	Solid	8015 NM	

Analysis Batch: 24215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-27	S-3, 5	Total/NA	Solid	8015B NM	24168
880-13941-28	S-3, 10	Total/NA	Solid	8015B NM	24168
880-13941-29	S-4, 1	Total/NA	Solid	8015B NM	24168
880-13941-30	S-4, 3	Total/NA	Solid	8015B NM	24168
880-13941-31	S-4, 5	Total/NA	Solid	8015B NM	24168
880-13941-32	S-4, 10	Total/NA	Solid	8015B NM	24168
880-13941-33	S-11, 1	Total/NA	Solid	8015B NM	24168
880-13941-34	S-11, 3	Total/NA	Solid	8015B NM	24168
880-13941-35	S-11, 5	Total/NA	Solid	8015B NM	24168
880-13941-36	S-11, 10	Total/NA	Solid	8015B NM	24168
880-13941-37	S-7, 1	Total/NA	Solid	8015B NM	24168
880-13941-38	S-7, 3	Total/NA	Solid	8015B NM	24168
880-13941-39	S-7, 5	Total/NA	Solid	8015B NM	24168
880-13941-40	S-7, 10	Total/NA	Solid	8015B NM	24168
880-13941-41	S-8, 1	Total/NA	Solid	8015B NM	24168
880-13941-42	S-8, 3	Total/NA	Solid	8015B NM	24168
880-13941-43	S-8, 5	Total/NA	Solid	8015B NM	24168
880-13941-44	S-8, 10	Total/NA	Solid	8015B NM	24168
MB 880-24168/1-A	Method Blank	Total/NA	Solid	8015B NM	24168
LCS 880-24168/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24168
LCSD 880-24168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24168
880-13941-27 MS	S-3, 5	Total/NA	Solid	8015B NM	24168
880-13941-27 MSD	S-3, 5	Total/NA	Solid	8015B NM	24168

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

HPLC/IC

Leach Batch: 24156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-1	S-10, 1	Soluble	Solid	DI Leach	
880-13941-2	S-10, 3	Soluble	Solid	DI Leach	
880-13941-3	S-10, 5	Soluble	Solid	DI Leach	
880-13941-4	S-10, 10	Soluble	Solid	DI Leach	
880-13941-5	S-9, 1	Soluble	Solid	DI Leach	
880-13941-6	S-9, 3	Soluble	Solid	DI Leach	
880-13941-7	S-9, 5	Soluble	Solid	DI Leach	
880-13941-8	S-9, 10	Soluble	Solid	DI Leach	
880-13941-9	S-1, 1	Soluble	Solid	DI Leach	
880-13941-10	S-1, 3	Soluble	Solid	DI Leach	
880-13941-11	S-1, 5	Soluble	Solid	DI Leach	
880-13941-12	S-1, 10	Soluble	Solid	DI Leach	
880-13941-13	S-2, 1	Soluble	Solid	DI Leach	
880-13941-14	S-2, 3	Soluble	Solid	DI Leach	
880-13941-15	S-2, 5	Soluble	Solid	DI Leach	
880-13941-16	S-2, 10	Soluble	Solid	DI Leach	
880-13941-17	S-6, 1	Soluble	Solid	DI Leach	
880-13941-18	S-6, 3	Soluble	Solid	DI Leach	
880-13941-19	S-6, 5	Soluble	Solid	DI Leach	
880-13941-20	S-6, 10	Soluble	Solid	DI Leach	
MB 880-24156/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24156/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24156/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-13941-1 MS	S-10, 1	Soluble	Solid	DI Leach	
880-13941-1 MSD	S-10, 1	Soluble	Solid	DI Leach	
880-13941-11 MS	S-1, 5	Soluble	Solid	DI Leach	
880-13941-11 MSD	S-1, 5	Soluble	Solid	DI Leach	

Leach Batch: 24157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-21	S-5, 1	Soluble	Solid	DI Leach	
880-13941-22	S-5, 3	Soluble	Solid	DI Leach	
880-13941-23	S-5, 5	Soluble	Solid	DI Leach	
880-13941-24	S-5, 10	Soluble	Solid	DI Leach	
880-13941-25	S-3, 1	Soluble	Solid	DI Leach	
880-13941-26	S-3, 3	Soluble	Solid	DI Leach	
880-13941-27	S-3, 5	Soluble	Solid	DI Leach	
880-13941-28	S-3, 10	Soluble	Solid	DI Leach	
880-13941-29	S-4, 1	Soluble	Solid	DI Leach	
880-13941-30	S-4, 3	Soluble	Solid	DI Leach	
880-13941-31	S-4, 5	Soluble	Solid	DI Leach	
880-13941-32	S-4, 10	Soluble	Solid	DI Leach	
880-13941-33	S-11, 1	Soluble	Solid	DI Leach	
880-13941-34	S-11, 3	Soluble	Solid	DI Leach	
880-13941-35	S-11, 5	Soluble	Solid	DI Leach	
880-13941-36	S-11, 10	Soluble	Solid	DI Leach	
880-13941-37	S-7, 1	Soluble	Solid	DI Leach	
880-13941-38	S-7, 3	Soluble	Solid	DI Leach	
880-13941-39	S-7, 5	Soluble	Solid	DI Leach	
880-13941-40	S-7, 10	Soluble	Solid	DI Leach	
MB 880-24157/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

HPLC/IC (Continued)

Leach Batch: 24157 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-24157/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24157/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-13941-21 MS	S-5, 1	Soluble	Solid	DI Leach	
880-13941-21 MSD	S-5, 1	Soluble	Solid	DI Leach	
880-13941-31 MS	S-4, 5	Soluble	Solid	DI Leach	
880-13941-31 MSD	S-4, 5	Soluble	Solid	DI Leach	

Leach Batch: 24158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-41	S-8, 1	Soluble	Solid	DI Leach	
880-13941-42	S-8, 3	Soluble	Solid	DI Leach	
880-13941-43	S-8, 5	Soluble	Solid	DI Leach	
880-13941-44	S-8, 10	Soluble	Solid	DI Leach	
MB 880-24158/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24158/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24158/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-13941-41 MS	S-8, 1	Soluble	Solid	DI Leach	
880-13941-41 MSD	S-8, 1	Soluble	Solid	DI Leach	

Analysis Batch: 24387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-1	S-10, 1	Soluble	Solid	300.0	24156
880-13941-2	S-10, 3	Soluble	Solid	300.0	24156
880-13941-3	S-10, 5	Soluble	Solid	300.0	24156
880-13941-4	S-10, 10	Soluble	Solid	300.0	24156
880-13941-5	S-9, 1	Soluble	Solid	300.0	24156
880-13941-6	S-9, 3	Soluble	Solid	300.0	24156
880-13941-7	S-9, 5	Soluble	Solid	300.0	24156
880-13941-8	S-9, 10	Soluble	Solid	300.0	24156
880-13941-9	S-1, 1	Soluble	Solid	300.0	24156
880-13941-10	S-1, 3	Soluble	Solid	300.0	24156
880-13941-11	S-1, 5	Soluble	Solid	300.0	24156
880-13941-12	S-1, 10	Soluble	Solid	300.0	24156
880-13941-13	S-2, 1	Soluble	Solid	300.0	24156
880-13941-14	S-2, 3	Soluble	Solid	300.0	24156
880-13941-15	S-2, 5	Soluble	Solid	300.0	24156
880-13941-16	S-2, 10	Soluble	Solid	300.0	24156
880-13941-17	S-6, 1	Soluble	Solid	300.0	24156
880-13941-18	S-6, 3	Soluble	Solid	300.0	24156
880-13941-19	S-6, 5	Soluble	Solid	300.0	24156
880-13941-20	S-6, 10	Soluble	Solid	300.0	24156
MB 880-24156/1-A	Method Blank	Soluble	Solid	300.0	24156
LCS 880-24156/2-A	Lab Control Sample	Soluble	Solid	300.0	24156
LCSD 880-24156/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24156
880-13941-1 MS	S-10, 1	Soluble	Solid	300.0	24156
880-13941-1 MSD	S-10, 1	Soluble	Solid	300.0	24156
880-13941-11 MS	S-1, 5	Soluble	Solid	300.0	24156
880-13941-11 MSD	S-1, 5	Soluble	Solid	300.0	24156

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

HPLC/IC

Analysis Batch: 24398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-21	S-5, 1	Soluble	Solid	300.0	24157
880-13941-22	S-5, 3	Soluble	Solid	300.0	24157
880-13941-23	S-5, 5	Soluble	Solid	300.0	24157
880-13941-24	S-5, 10	Soluble	Solid	300.0	24157
880-13941-25	S-3, 1	Soluble	Solid	300.0	24157
880-13941-26	S-3, 3	Soluble	Solid	300.0	24157
880-13941-27	S-3, 5	Soluble	Solid	300.0	24157
880-13941-28	S-3, 10	Soluble	Solid	300.0	24157
880-13941-29	S-4, 1	Soluble	Solid	300.0	24157
880-13941-30	S-4, 3	Soluble	Solid	300.0	24157
880-13941-31	S-4, 5	Soluble	Solid	300.0	24157
880-13941-32	S-4, 10	Soluble	Solid	300.0	24157
880-13941-33	S-11, 1	Soluble	Solid	300.0	24157
880-13941-34	S-11, 3	Soluble	Solid	300.0	24157
880-13941-35	S-11, 5	Soluble	Solid	300.0	24157
880-13941-36	S-11, 10	Soluble	Solid	300.0	24157
880-13941-37	S-7, 1	Soluble	Solid	300.0	24157
880-13941-38	S-7, 3	Soluble	Solid	300.0	24157
880-13941-39	S-7, 5	Soluble	Solid	300.0	24157
880-13941-40	S-7, 10	Soluble	Solid	300.0	24157
MB 880-24157/1-A	Method Blank	Soluble	Solid	300.0	24157
LCS 880-24157/2-A	Lab Control Sample	Soluble	Solid	300.0	24157
LCSD 880-24157/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24157
880-13941-21 MS	S-5, 1	Soluble	Solid	300.0	24157
880-13941-21 MSD	S-5, 1	Soluble	Solid	300.0	24157
880-13941-31 MS	S-4, 5	Soluble	Solid	300.0	24157
880-13941-31 MSD	S-4, 5	Soluble	Solid	300.0	24157

Analysis Batch: 24399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13941-41	S-8, 1	Soluble	Solid	300.0	24158
880-13941-42	S-8, 3	Soluble	Solid	300.0	24158
880-13941-43	S-8, 5	Soluble	Solid	300.0	24158
880-13941-44	S-8, 10	Soluble	Solid	300.0	24158
MB 880-24158/1-A	Method Blank	Soluble	Solid	300.0	24158
LCS 880-24158/2-A	Lab Control Sample	Soluble	Solid	300.0	24158
LCSD 880-24158/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24158
880-13941-41 MS	S-8, 1	Soluble	Solid	300.0	24158
880-13941-41 MSD	S-8, 1	Soluble	Solid	300.0	24158

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-10, 1

Lab Sample ID: 880-13941-1

Date Collected: 04/19/22 12:40

Matrix: Solid

Date Received: 04/21/22 09:08

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	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 20:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 12:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 09:28	CH	XEN MID

Client Sample ID: S-10, 3

Lab Sample ID: 880-13941-2

Date Collected: 04/19/22 12:41

Matrix: Solid

Date Received: 04/21/22 09:08

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	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 20:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 13:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 09:56	CH	XEN MID

Client Sample ID: S-10, 5

Lab Sample ID: 880-13941-3

Date Collected: 04/19/22 12:42

Matrix: Solid

Date Received: 04/21/22 09:08

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	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 20:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 14:06	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 10:05	CH	XEN MID

Client Sample ID: S-10, 10

Lab Sample ID: 880-13941-4

Date Collected: 04/19/22 12:43

Matrix: Solid

Date Received: 04/21/22 09:08

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	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 21:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-10, 10

Lab Sample ID: 880-13941-4

Date Collected: 04/19/22 12:43

Matrix: Solid

Date Received: 04/21/22 09:08

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			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 10:14	CH	XEN MID

Client Sample ID: S-9, 1

Lab Sample ID: 880-13941-5

Date Collected: 04/19/22 13:15

Matrix: Solid

Date Received: 04/21/22 09:08

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	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/03/22 01:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 14:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 10:23	CH	XEN MID

Client Sample ID: S-9, 3

Lab Sample ID: 880-13941-6

Date Collected: 04/19/22 13:16

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 00:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 10:51	CH	XEN MID

Client Sample ID: S-9, 5

Lab Sample ID: 880-13941-7

Date Collected: 04/19/22 13:17

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 00:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 15:29	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-9, 5

Lab Sample ID: 880-13941-7

Date Collected: 04/19/22 13:17

Matrix: Solid

Date Received: 04/21/22 09:08

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	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 11:00	CH	XEN MID

Client Sample ID: S-9, 10

Lab Sample ID: 880-13941-8

Date Collected: 04/19/22 13:18

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 00:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 15:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 11:09	CH	XEN MID

Client Sample ID: S-1, 1

Lab Sample ID: 880-13941-9

Date Collected: 04/19/22 14:00

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 01:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 16:10	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 11:19	CH	XEN MID

Client Sample ID: S-1, 3

Lab Sample ID: 880-13941-10

Date Collected: 04/19/22 14:01

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 01:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 16:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 11:28	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-1, 5

Lab Sample ID: 880-13941-11

Date Collected: 04/19/22 14:02

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 02:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 17:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 11:37	CH	XEN MID

Client Sample ID: S-1, 10

Lab Sample ID: 880-13941-12

Date Collected: 04/19/22 14:03

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 02:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 17:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 12:05	CH	XEN MID

Client Sample ID: S-2, 1

Lab Sample ID: 880-13941-13

Date Collected: 04/19/22 14:20

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 02:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 17:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 12:14	CH	XEN MID

Client Sample ID: S-2, 3

Lab Sample ID: 880-13941-14

Date Collected: 04/19/22 14:21

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 03:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-2, 3

Lab Sample ID: 880-13941-14

Date Collected: 04/19/22 14:21

Matrix: Solid

Date Received: 04/21/22 09:08

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			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 18:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 12:41	CH	XEN MID

Client Sample ID: S-2, 5

Lab Sample ID: 880-13941-15

Date Collected: 04/19/22 14:22

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 03:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 12:50	CH	XEN MID

Client Sample ID: S-2, 10

Lab Sample ID: 880-13941-16

Date Collected: 04/19/22 14:23

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 04:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 18:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 13:00	CH	XEN MID

Client Sample ID: S-6, 1

Lab Sample ID: 880-13941-17

Date Collected: 04/19/22 14:40

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 05:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 19:16	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-6, 1

Lab Sample ID: 880-13941-17

Date Collected: 04/19/22 14:40

Matrix: Solid

Date Received: 04/21/22 09:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 13:09	CH	XEN MID

Client Sample ID: S-6, 3

Lab Sample ID: 880-13941-18

Date Collected: 04/19/22 14:41

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 05:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 19:36	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 13:18	CH	XEN MID

Client Sample ID: S-6, 5

Lab Sample ID: 880-13941-19

Date Collected: 04/19/22 14:42

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 05:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 19:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 13:27	CH	XEN MID

Client Sample ID: S-6, 10

Lab Sample ID: 880-13941-20

Date Collected: 04/19/22 14:43

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 06:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24015	04/22/22 10:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24107	04/24/22 20:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24156	04/25/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		1			24387	04/28/22 13:36	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-5, 1

Lab Sample ID: 880-13941-21

Date Collected: 04/19/22 15:00

Matrix: Solid

Date Received: 04/21/22 09:08

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	24494	04/29/22 09:27	MR	XEN MID
Total/NA	Analysis	8021B		1			24523	04/30/22 10:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24054	04/22/22 14:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24113	04/25/22 18:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		5			24398	04/28/22 14:46	CH	XEN MID

Client Sample ID: S-5, 3

Lab Sample ID: 880-13941-22

Date Collected: 04/19/22 15:01

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 06:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24054	04/22/22 14:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24113	04/25/22 18:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 15:12	CH	XEN MID

Client Sample ID: S-5, 5

Lab Sample ID: 880-13941-23

Date Collected: 04/19/22 15:02

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 07:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24054	04/22/22 14:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24113	04/25/22 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 15:21	CH	XEN MID

Client Sample ID: S-5, 10

Lab Sample ID: 880-13941-24

Date Collected: 04/19/22 15:03

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 07:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-5, 10

Lab Sample ID: 880-13941-24

Date Collected: 04/19/22 15:03

Matrix: Solid

Date Received: 04/21/22 09:08

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			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24054	04/22/22 14:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24113	04/25/22 19:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 15:30	CH	XEN MID

Client Sample ID: S-3, 1

Lab Sample ID: 880-13941-25

Date Collected: 04/19/22 15:30

Matrix: Solid

Date Received: 04/21/22 09:08

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	24318	04/27/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/03/22 07:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24054	04/22/22 14:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24113	04/25/22 19:45	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 15:39	CH	XEN MID

Client Sample ID: S-3, 3

Lab Sample ID: 880-13941-26

Date Collected: 04/19/22 15:31

Matrix: Solid

Date Received: 04/21/22 09:08

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	24681	05/02/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24735	05/03/22 21:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24054	04/22/22 14:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24113	04/25/22 20:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 16:05	CH	XEN MID

Client Sample ID: S-3, 5

Lab Sample ID: 880-13941-27

Date Collected: 04/19/22 15:32

Matrix: Solid

Date Received: 04/21/22 09:08

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	24681	05/02/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24735	05/03/22 22:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/26/22 20:35	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-3, 5

Lab Sample ID: 880-13941-27

Date Collected: 04/19/22 15:32

Matrix: Solid

Date Received: 04/21/22 09:08

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	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 16:14	CH	XEN MID

Client Sample ID: S-3, 10

Lab Sample ID: 880-13941-28

Date Collected: 04/19/22 15:33

Matrix: Solid

Date Received: 04/21/22 09:08

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	24681	05/02/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24735	05/03/22 22:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/26/22 21:37	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 16:23	CH	XEN MID

Client Sample ID: S-4, 1

Lab Sample ID: 880-13941-29

Date Collected: 04/20/22 08:15

Matrix: Solid

Date Received: 04/21/22 09:08

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	24681	05/02/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24735	05/03/22 22:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/26/22 21:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 16:32	CH	XEN MID

Client Sample ID: S-4, 3

Lab Sample ID: 880-13941-30

Date Collected: 04/20/22 08:16

Matrix: Solid

Date Received: 04/21/22 09:08

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	24681	05/02/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24735	05/03/22 23:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/26/22 22:18	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 16:41	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-4, 5

Lab Sample ID: 880-13941-31

Date Collected: 04/20/22 08:17

Matrix: Solid

Date Received: 04/21/22 09:08

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	24681	05/02/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24735	05/03/22 23:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/26/22 22:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 16:50	CH	XEN MID

Client Sample ID: S-4, 10

Lab Sample ID: 880-13941-32

Date Collected: 04/20/22 08:18

Matrix: Solid

Date Received: 04/21/22 09:08

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	24681	05/02/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24735	05/04/22 00:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/26/22 22:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 17:43	CH	XEN MID

Client Sample ID: S-11, 1

Lab Sample ID: 880-13941-33

Date Collected: 04/20/22 08:45

Matrix: Solid

Date Received: 04/21/22 09:08

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	24681	05/02/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24735	05/04/22 00:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/26/22 23:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 17:52	CH	XEN MID

Client Sample ID: S-11, 3

Lab Sample ID: 880-13941-34

Date Collected: 04/20/22 08:46

Matrix: Solid

Date Received: 04/21/22 09:08

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	24681	05/02/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24735	05/04/22 01:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-11, 3

Lab Sample ID: 880-13941-34

Date Collected: 04/20/22 08:46

Matrix: Solid

Date Received: 04/21/22 09:08

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			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/26/22 23:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 18:19	CH	XEN MID

Client Sample ID: S-11, 5

Lab Sample ID: 880-13941-35

Date Collected: 04/20/22 08:47

Matrix: Solid

Date Received: 04/21/22 09:08

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	24681	05/02/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24735	05/04/22 01:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/27/22 00:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 18:28	CH	XEN MID

Client Sample ID: S-11, 10

Lab Sample ID: 880-13941-36

Date Collected: 04/20/22 08:48

Matrix: Solid

Date Received: 04/21/22 09:08

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	24319	04/27/22 11:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24740	05/03/22 20:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/27/22 00:22	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 18:37	CH	XEN MID

Client Sample ID: S-7, 1

Lab Sample ID: 880-13941-37

Date Collected: 04/20/22 09:10

Matrix: Solid

Date Received: 04/21/22 09:08

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	24319	04/27/22 11:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24740	05/03/22 20:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/27/22 01:03	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-7, 1

Lab Sample ID: 880-13941-37

Date Collected: 04/20/22 09:10

Matrix: Solid

Date Received: 04/21/22 09:08

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	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		5			24398	04/28/22 18:45	CH	XEN MID

Client Sample ID: S-7, 3

Lab Sample ID: 880-13941-38

Date Collected: 04/20/22 09:11

Matrix: Solid

Date Received: 04/21/22 09:08

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	24319	04/27/22 11:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24740	05/03/22 22:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/27/22 01:23	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 18:54	CH	XEN MID

Client Sample ID: S-7, 5

Lab Sample ID: 880-13941-39

Date Collected: 04/20/22 09:12

Matrix: Solid

Date Received: 04/21/22 09:08

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	24319	04/27/22 11:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24740	05/03/22 22:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/27/22 01:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 19:03	CH	XEN MID

Client Sample ID: S-7, 10

Lab Sample ID: 880-13941-40

Date Collected: 04/20/22 09:13

Matrix: Solid

Date Received: 04/21/22 09:08

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	24319	04/27/22 11:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24740	05/03/22 23:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/27/22 02:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24157	04/25/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			24398	04/28/22 19:12	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-8, 1

Lab Sample ID: 880-13941-41

Date Collected: 04/20/22 09:30

Matrix: Solid

Date Received: 04/21/22 09:08

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	24319	04/27/22 11:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24740	05/03/22 23:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/27/22 02:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24158	04/25/22 10:25	CH	XEN MID
Soluble	Analysis	300.0		1			24399	04/29/22 00:05	CH	XEN MID

Client Sample ID: S-8, 3

Lab Sample ID: 880-13941-42

Date Collected: 04/20/22 09:31

Matrix: Solid

Date Received: 04/21/22 09:08

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	24319	04/27/22 11:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24740	05/03/22 23:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/27/22 02:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24158	04/25/22 10:25	CH	XEN MID
Soluble	Analysis	300.0		1			24399	04/29/22 00:24	CH	XEN MID

Client Sample ID: S-8, 5

Lab Sample ID: 880-13941-43

Date Collected: 04/20/22 09:32

Matrix: Solid

Date Received: 04/21/22 09:08

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	24319	04/27/22 11:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24740	05/04/22 00:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/27/22 03:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24158	04/25/22 10:25	CH	XEN MID
Soluble	Analysis	300.0		1			24399	04/29/22 00:30	CH	XEN MID

Client Sample ID: S-8, 10

Lab Sample ID: 880-13941-44

Date Collected: 04/20/22 09:33

Matrix: Solid

Date Received: 04/21/22 09:08

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	24319	04/27/22 11:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24740	05/04/22 00:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24603	05/02/22 08:25	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Client Sample ID: S-8, 10
Date Collected: 04/20/22 09:33
Date Received: 04/21/22 09:08

Lab Sample ID: 880-13941-44
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			24195	04/25/22 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24168	04/25/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24215	04/27/22 03:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24158	04/25/22 10:25	CH	XEN MID
Soluble	Analysis	300.0		1			24399	04/29/22 00:37	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: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

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: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

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

Eurofins Midland

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Cotton Draw TB

Job ID: 880-13941-1
SDG: 22-0105-05

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-13941-1	S-10, 1	Solid	04/19/22 12:40	04/21/22 09:08
880-13941-2	S-10, 3	Solid	04/19/22 12:41	04/21/22 09:08
880-13941-3	S-10, 5	Solid	04/19/22 12:42	04/21/22 09:08
880-13941-4	S-10, 10	Solid	04/19/22 12:43	04/21/22 09:08
880-13941-5	S-9, 1	Solid	04/19/22 13:15	04/21/22 09:08
880-13941-6	S-9, 3	Solid	04/19/22 13:16	04/21/22 09:08
880-13941-7	S-9, 5	Solid	04/19/22 13:17	04/21/22 09:08
880-13941-8	S-9, 10	Solid	04/19/22 13:18	04/21/22 09:08
880-13941-9	S-1, 1	Solid	04/19/22 14:00	04/21/22 09:08
880-13941-10	S-1, 3	Solid	04/19/22 14:01	04/21/22 09:08
880-13941-11	S-1, 5	Solid	04/19/22 14:02	04/21/22 09:08
880-13941-12	S-1, 10	Solid	04/19/22 14:03	04/21/22 09:08
880-13941-13	S-2, 1	Solid	04/19/22 14:20	04/21/22 09:08
880-13941-14	S-2, 3	Solid	04/19/22 14:21	04/21/22 09:08
880-13941-15	S-2, 5	Solid	04/19/22 14:22	04/21/22 09:08
880-13941-16	S-2, 10	Solid	04/19/22 14:23	04/21/22 09:08
880-13941-17	S-6, 1	Solid	04/19/22 14:40	04/21/22 09:08
880-13941-18	S-6, 3	Solid	04/19/22 14:41	04/21/22 09:08
880-13941-19	S-6, 5	Solid	04/19/22 14:42	04/21/22 09:08
880-13941-20	S-6, 10	Solid	04/19/22 14:43	04/21/22 09:08
880-13941-21	S-5, 1	Solid	04/19/22 15:00	04/21/22 09:08
880-13941-22	S-5, 3	Solid	04/19/22 15:01	04/21/22 09:08
880-13941-23	S-5, 5	Solid	04/19/22 15:02	04/21/22 09:08
880-13941-24	S-5, 10	Solid	04/19/22 15:03	04/21/22 09:08
880-13941-25	S-3, 1	Solid	04/19/22 15:30	04/21/22 09:08
880-13941-26	S-3, 3	Solid	04/19/22 15:31	04/21/22 09:08
880-13941-27	S-3, 5	Solid	04/19/22 15:32	04/21/22 09:08
880-13941-28	S-3, 10	Solid	04/19/22 15:33	04/21/22 09:08
880-13941-29	S-4, 1	Solid	04/20/22 08:15	04/21/22 09:08
880-13941-30	S-4, 3	Solid	04/20/22 08:16	04/21/22 09:08
880-13941-31	S-4, 5	Solid	04/20/22 08:17	04/21/22 09:08
880-13941-32	S-4, 10	Solid	04/20/22 08:18	04/21/22 09:08
880-13941-33	S-11, 1	Solid	04/20/22 08:45	04/21/22 09:08
880-13941-34	S-11, 3	Solid	04/20/22 08:46	04/21/22 09:08
880-13941-35	S-11, 5	Solid	04/20/22 08:47	04/21/22 09:08
880-13941-36	S-11, 10	Solid	04/20/22 08:48	04/21/22 09:08
880-13941-37	S-7, 1	Solid	04/20/22 09:10	04/21/22 09:08
880-13941-38	S-7, 3	Solid	04/20/22 09:11	04/21/22 09:08
880-13941-39	S-7, 5	Solid	04/20/22 09:12	04/21/22 09:08
880-13941-40	S-7, 10	Solid	04/20/22 09:13	04/21/22 09:08
880-13941-41	S-8, 1	Solid	04/20/22 09:30	04/21/22 09:08
880-13941-42	S-8, 3	Solid	04/20/22 09:31	04/21/22 09:08
880-13941-43	S-8, 5	Solid	04/20/22 09:32	04/21/22 09:08
880-13941-44	S-8, 10	Solid	04/20/22 09:33	04/21/22 09:08

5/5/2022

5/5/2022

Aarson & Associates, Inc.
Environmental Consultants

507 N Warrenfield, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 4/11/2022 PAGE 3 OF 3
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Cotton Place TB
LA PROJECT #: 22-0105-05 COLLECTOR: TB + TR

TRRP report?
☐ Yes ☒ No

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

TIME ZONE
Time zone/State

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES
BTEX ☐ MTBE ☐

TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐GASOLINE MOD 8015 ☐DIESEL - MOD 8015 ☐OIL - MOD 8015 ☐VOC 8260 ☐SVOC 8270 ☐8081 PESTICIDES ☐8082 PCBs ☐TCLP - METALS (RCRA) ☐TCLP - PEST ☐TOTAL METALS (RCRA) ☐LEAD - TOTAL ☐RCI ☐TDS ☐PH ☐EXPLOSIVES ☐CHLORIDES ☐ANIONS ☐ALKALINITY ☐CYANIDE ☐OTHER LIST ☐TCLP VOC ☐Semi-VOC ☐FLASHPOINT ☐% MOISTURE ☐PECHLORUM ☐

FIELD NOTES

Loc: 880
13941

TOTAL

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP

CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP

CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP

CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED

LABORATORY

Kendall

No. 2525
13941 CHAIN-OF-CUSTODY

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-13941-1

SDG Number: 22-0105-05

Login Number: 13941**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	

Appendix E
Photographs

Tracking Number: nAPP2203942460
Delineation Report and Remediation Plan
Cotton Draw TB, Chevron USA, Inc.
Crude Oil and Produced Water Release
June 3, 2022



Aerial image of impacted area, February 9, 2022



View of impacted line, February 9, 2022

Tracking Number: nAPP2203942460
Delineation Report and Remediation Plan
Cotton Draw TB, Chevron USA, Inc.
Crude Oil and Produced Water Release
June 3, 2022



Impacted area viewing east, February 9, 2022



Impacted area viewing northeast, February 9, 2022

Tracking Number: nAPP2203942460
Delineation Report and Remediation Plan
Cotton Draw TB, Chevron USA, Inc.
Crude Oil and Produced Water Release
June 3, 2022



Impacted area with soil stockpiled adjacent to excavation, February 11, 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 113961

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 113961
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved. Please submit with Closure Report the complete boring log with latitude/longitude of BH-1.	6/10/2022