Form C-141
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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2211536378
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?	>61.75 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☑ Yes ☐ No

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

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

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

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

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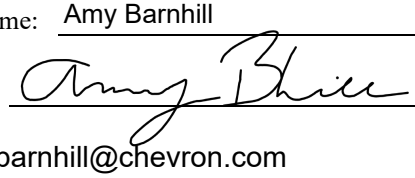
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public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

Printed Name: Amy Barnhill
Title: Lead Environmental Specialist

Signature: 
Date: 3/22/2023

Email: abarnhill@chevron.com
Telephone: (432) 687-7108

OCD Only

Received by: _____
Date: _____

State of New Mexico
Oil Conservation Division

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Remediation Plan

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

☑ 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: Lead Environmental Specialist

Signature: Amy Barnhill Date: 3/22/2023

Email: abarnhill@chevron.com Telephone: (432) 687-7108

OCD Only

Received by: _____ Date: _____

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

Signature: Jennifer Nobui Date: 05/12/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2211536378
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Closure

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

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

☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

☑ Description of remediation activities

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

Printed Name: Amy Barnhill Title: Lead Environmental Specialist

Signature: Amy Barnhill Date: 3/22/2023

Email: abarnhill@chevron.com Telephone: (432) 687-7108

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Tracking Number: nAPP2121639500
Closure Report
Limestone 1H
Produced Water Release
Eddy County, New Mexico

Latitude: N 32.326083°
Longitude: W -103.549906°

LAI Project No. 21-0100-24

March 22, 2023

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

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

Daniel St. Germain
Staff Geologist

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1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this closure report on behalf of Chevron USA Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (NMOCD) District 1 for a produced water release at the Limestone #1H (Site). The Site is located in Unit D (NW/4, NW/4), Section 11 Township 23 South and Range 33 East in Lea County, New Mexico. The geodetic position is North 32.326083° and West -103.549906°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was initially discovered on July 24, 2021, due to a frac hit resulting in the stuffing box blowing out. Chevron reported that about 219 barrels (bbls) of produced water were released, with 40 bbls recovered. On July 27, 2021, the well was frac hit again resulting in the release of 5,400 bbls of produced water. An emergency berm was constructed for containing the release. Chevron reported that all water from the second release was recovered via vacuum trucks. The affected area measures approximately 60,208 square feet. The initial C-141 was submitted to NMOCD District 1 on August 4, 2021, and updated on August 9, 2021, to account for the second release. The releases were assigned incident number nAPP2106659781. Appendix A presents the Chevron spill calculation and spill map.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,564 feet above mean sea level (msl).
- The surface elevation gradually decreases to the northeast.
- 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 and Maljamar fine sands, consisting of 0 to 30 inches fine sand, underlain by 30 to 60 inches of fine sandy loam.
- Surface geology is described as eolian and piedmont deposits (Holocene to middle Pleistocene), consisting of interlayered eolian sand and piedmont deposits.
- Groundwater occurs in “Other aquifers (N9999OTHER) nation aquifer” and the Santa Rosa Sandstone (231SNRS) local aquifer.
- Groundwater is greater than 50 feet bgs, based on a dry groundwater borehole that was drilled onsite on June 6, 2022, to approximately 61.75 feet, and gauged 72 hours after completion.
- The landownership is federal and administered by BLM.

Appendix B presents USGS data depicting karst risk potential.

1.3 Remediation Standards

The following remediation standards are based on closure criteria for soils impacted by a produced water release where groundwater is between 51 and 100 feet bgs, as presented in Table 1 of 19.15.29 NMAC:

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

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

2.0 DELINEATION

The release was delineated between September 27, 2021, and October 14, 2021. A delineation report titled "Delineation Report and Remediation Plan, Limestone 1H, Produced Water Release", was received by the NMOCD on May 5, 2022. The report recommended the following remedial actions:

- Composite samples for about every 200 cubic yards of soil that was pushed up into two (2) soil piles (A and B) for emergency spill control, analyzed for BTEX, TPH and chloride and hauled to disposal if concentrations exceed the most stringent concentrations in Table 1 of 19.15.29.12 NMAC (Note that aerial imagery from 2017 indicates the soil piles originated prior to the release).
- Excavate soil from an area measuring approximately 5,943 square feet encompassing S-6, S-8, and S-38 to a depth of 1.5 feet bgs.
- Excavate soil from an area measuring approximately 4,286 square feet encompassing S-17 and S-22 to a depth of 2 feet bgs.
- Excavate soil from an area measuring approximately 1,648 square feet encompassing S-4 to a depth of 3.5 feet bgs.
- Excavate soil from an area measuring approximately 32,429 square feet encompassing S-9 through S-14, S-19, S-20, S-23, S-24, S-28, S-29, S-30, and S-31 to a depth of 4.1 feet bgs.
- 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 caliche on the pad and topsoil in the pasture assuming achievement of OCD remediation levels.
- Prepare report with photographs for submittal to NMOCD District I.

The NMOCD approved the remediation plan on July 20, 2022. Table 1 presents the delineation sample analytical data summary. Figure 2 presents an aerial map with proposed excavation areas. Appendix C presents NMOCD correspondence.

3.0 REMEDIATION

Between August 22, 2022, and September 16, 2022, R&M Trucking and Backhoe Services (R&M), under supervision from LAI, excavated soil encompassing the areas specified in the remediation plan, including soil piles A and B. Excavated soil was stockpiled on a polyethylene liner on an adjacent production pad. Approximately 3,140 cubic yards of soil were hauled to the R360 Halfway facility, located between Carlsbad and Hobbs, New Mexico.

On August 24 and 26, 2022, LAI Personnel collected 54 confirmation samples (C-1 through C-54). The samples were delivered under chain of custody and preservation to Eurofins-Xenco Laboratories (Xenco) in Midland, Texas, and were analyzed for BTEX, TPH, and chloride by EPA SW-846 Methods 8021B, 8015M, and 300.0E, respectively. Benzene, BTEX and TPH were reported below NMOCD closure criteria in all samples. Chloride was reported above the NMOCD closure criteria in the following samples:

Sample ID	Location	Depth (ft)	Chloride (mg/Kg)
C-27	Sidewall	0 - 4.1	**708**
C-29	Sidewall	0 - 4.1	**1,090**
C-30	Sidewall	0 - 4.1	**895**
C-31	Sidewall	0 - 4.1	**627**
C-33	Bottom	2	**935**
C-34	Bottom	2	**741**
C-35	Bottom	2	**839**
C-36	Bottom	2	**763**
C-37	Bottom	2	**648**
C-38	Bottom	2	**1,100**
C-39	Bottom	2	**614**
C-40	Bottom	2	**926**
C-42	Bottom	2	**766**
C-43	Bottom	2	**1,220**
C-44	Bottom	2	**679**
C-45	Bottom	2	**1,090**
C-47	Sidewall	0 - 2	**969**
C-48	Sidewall	0 - 2	**2,410**

Between August 29 and 31, 2022, LAI personnel collected 26 confirmation soil samples (C-55 through C-80) from the excavation. Xenco analyzed the samples and reported that all samples were NMOCD closure criteria for benzene, BTEX, TPH, and chloride.

Between September 7 and 9, 2022, LAI personnel collected 26 confirmation soil samples (C-82 through C-137) from the excavation. Xenco analyzed the samples and reported that all samples were below the NMOCD closure criteria for benzene, BTEX, and TPH. Chloride was reported above NMOCD closure criteria in the following samples:

Sample ID	Location	Depth	Chloride
C-91	Sidewall	0-2	641
C-129	Sidewall	0-4.1	690
C-130	Sidewall	0-4.1	1,580
C-131	Sidewall	0-4.1	1,710
C-133	Sidewall	0-4.1	2,290
C-136	Sidewall	0-4.1	743
C-137	Sidewall	0-4.1	1,050

Between September 14 and 19, 2022, LAI Personnel collected 81 confirmation soil samples (C-138 through C-229). Xenco analyzed the samples and reported that samples were below closure criteria for benzene and BTEX. TPH was reported above closure criteria in samples C-209 (104 mg/Kg) and C-215 (134 mg/Kg). Chloride was reported above closure criteria in samples C-153 (1,420 mg/Kg), C-157 (1,530 mg/Kg), and C-167 (4,230 mg/Kg).

On September 19, 2022, LAI personnel collected 53 confirmation samples (C-230 through C-282) from excavation. Xenco analyzed the samples and reported that benzene and BTEX were below the closure criteria in all samples. TPH was reported above the closure criteria in samples C-250 (196 mg/Kg) and C-252 (117 mg/Kg). Chloride was also reported above the closure criteria in the following samples:

Sample ID	Location	Depth	Chloride
C-230	Bottom	1.5	2,040
C-232	Bottom	1.5	632
C-234	Bottom	1.5	826
C-236	Bottom	1.5	1,530
C-241	Bottom	1.5	1,200
C-244	Sidewall	0-1.5	789

Between November 15 and 21, 2022 LAI personnel collected 26 confirmation samples from samples areas that were further excavated due to previous samples being reported above NMOCD closure criteria. The sample locations included C-29, C-33, C-34, C-35, C-36, C-37, C-38, C-39, C-40, C-42, C-43, C-44, C-45, C-47, C-48, C-91, C-130, C-167, C-209, C-215, C-232, C-234, C-236, C-241, C-250, and C-252. Xenco analyzed the samples and reported that all samples were below closure criteria for benzene, BTEX, TPH, and chloride.

Between December 14 and 21, 2022, LAI personnel collected 14 confirmation samples from sample areas that were further excavated due to previous samples being reported above the NMOCD closure criteria. The sample locations included C-27, C-30, C-80, C-181, C-183, C-185, C-136, C-157, C-187, C-182, C-81, C-186, C-230, and C-244. Xenco analyzed the samples and reported that all samples were below closure criteria for benzene, BTEX, TPH, and chloride.

Laboratory analysis confirm that benzene, BTEX, TPH, and chloride are below the NMOCD remediation standards listed in Table 1 of the 19.15.29 NMAC, in all confirmation soil samples. Figure 3 presents the

soil excavation areas and confirmation sample locations. Table 2 presents the confirmation and backfill sample analytical data summary. Appendix D presents the laboratory reports.

On December 22, 2022, and January 26, 2023, R & M Trucking and Backhoe Services backfilled the excavation with clean caliche on the pad and topsoil in the pasture. LAI personnel collected eighteen (18) composite samples (BF-1 through BF-18) of clean caliche from the borrow pit. Additionally, LAI personnel collected 2 confirmation samples of topsoil from the pit. Xenco analyzed the backfill samples for BTEX, TPH, and chloride. Benzene, BTEX, and TPH were below the analytical method RL. All backfill samples had chloride concentrations below 600 mg/Kg. Appendix E presents the photographic documentation.

4.0 DEFFERRAL REQUEST

Chevon requests a deferral for chloride at sample locations C-31 (627 mg/Kg), C-137 (1,050 mg/Kg), and C-153 (1,420 mg/Kg). Sample locations C-137 and C-153 are located near the wellhead, pumping unit, and flowlines and will require major facility deconstruction to remediate. Sample C-31 is located adjacent to the lease road that provides the only access to drilling and production operations.

Tables

Table 1
Soil Sample Analytical Data Summary
Limestone 1H
Lea County, New Mexico
North 32° 19' 33.90", West 103° 32' 59.66"

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
S-1	1	9/27/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	65.3	65.3	<4.96
	3	9/27/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	54.2
	5	9/27/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	19.8
	10	9/27/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	50.0
S-2	1	9/27/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	183
	3	9/27/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	172
	5	9/27/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	31.0
	10	9/27/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	36.8
S-3	1	9/27/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	29.9
	3	9/27/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	59.5
	5	9/27/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	24.4
	10	9/27/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	32.8
S-4	1	9/27/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	328
	3	9/27/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**1,280**
	5	9/27/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	100
	10	9/27/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	14.8
S-5	1	9/27/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	14.7
	3	9/27/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	36.3
	5	9/27/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	12.8
	10	9/27/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	13.4

Table 1
Soil Sample Analytical Data Summary
Limestone 1H
Lea County, New Mexico
North 32° 19' 33.90", West 103° 32' 59.66"

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
S-6	1	9/28/2021	In-Situ	<0.00200	<0.00401	<49.8	1,150	<49.8	**1,150**	21.7
	3	9/28/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	11.6
	5	9/28/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	171
	10	9/28/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	191
S-7	1	9/28/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	107
	3	9/28/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	102
	5	9/28/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	255
	10	9/28/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	110
S-8	1	9/28/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**755**
	3	9/28/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	135
	5	9/28/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	87.7
	10	9/28/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	121
S-9	1	9/28/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	144
	3	9/28/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	235
	5	9/28/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	144
	10	9/28/2021	In-Situ	<0.00199	<0.00398	<49.9	1,010	<49.9	**1,010**	**966**
	15	3/14/2022	In-Situ	--	--	<50.0	<50.0	<50.0	<50.0	168
	20	3/14/2022	In-Situ			<49.8	<49.8	<49.8	<49.8	94.6
S-10	1	9/28/2021	In-Situ	<0.00199	<0.00398	<49.8	644	<49.8	**644**	458
	3	9/28/2021	In-Situ	<0.00201	<0.00402	<49.8	273	<49.8	**273**	**698**
	5	9/28/2021	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	**3,270**

Table 1
Soil Sample Analytical Data Summary
Limestone 1H
Lea County, New Mexico
North 32° 19' 33.90", West 103° 32' 59.66"

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	10	9/28/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	143
S-11	1	9/28/2021	In-Situ	<0.00198	<0.00398	<49.9	196	<49.9	**196**	138
	3	9/28/2021	In-Situ	<0.00198	<0.00398	<49.8	<49.8	<49.8	<49.8	**1,130**
	5	9/28/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	333
	10	9/28/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	85.5
S-12	1	9/28/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**3,100**
	3	9/28/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**1,890**
	5	9/28/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**892**
	10	9/28/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	120
S-13	1	9/28/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**5,580**
	3	9/28/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	**1,930**
	5	9/28/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**1,300**
	10	9/28/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	244
S-14	1	9/28/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	**6,520**
	3	9/28/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**1,670**
	5	9/28/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**833**
	10	9/28/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	37.2
S-15	1	9/28/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	558
	3	9/28/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	29.4

Table 1
Soil Sample Analytical Data Summary
Limestone 1H
Lea County, New Mexico
North 32° 19' 33.90", West 103° 32' 59.66"

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	5	9/28/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	12.2
	10	9/28/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	8.86
S-16	1	9/28/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	307
	3	9/28/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	42.6
	5	9/28/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	19.3
	10	9/28/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	21.4
S-17	1	9/28/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**1,360**
	3	9/28/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	51.7
	5	9/28/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	35.8
	10	9/28/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	19.2
S-18	1	9/28/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	59.0
	3	9/28/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	513
	5	9/28/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	35.5
	10	9/28/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	32.9
S-19	1	9/29/2021	In-Situ	<0.00198	<0.00396	<49.9	109	<49.9	**109**	**672**
	3	9/29/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	**676**
	5	9/29/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	113
	10	9/29/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	45.4
S-20	1	9/29/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	**1,930**

Table 1
Soil Sample Analytical Data Summary
Limestone 1H
Lea County, New Mexico
North 32° 19' 33.90", West 103° 32' 59.66"

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	3	9/29/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**644**
	5	9/29/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	578
	10	9/29/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	117
S-21	1	9/29/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	219
	3	9/29/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	249
	5	9/29/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	23.8
	10	9/29/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	63.2
S-22	1	9/29/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**1,740**
	3	9/29/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	22.7
	5	9/29/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	14.1
	10	9/29/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	19.0
S-23	1	10/7/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	317
	3	10/7/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	**2,890**
	5	10/14/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**1,810**
	10	10/14/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**657**
	15	3/14/2022	In-Situ	--	--	--	--	--	--	33.1
	20	3/14/2022	In-Situ	--	--	--	--	--	--	23
S-24	1	10/14/2021	In-Situ	<0.00200	<0.00399	1,300	<49.9	<49.9	**1,300**	**634**
	3	10/14/2021	In-Situ	<0.00200	<0.00400	803	<49.8	<49.8	**803**	26.1
	5	10/14/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	32.4

Table 1
Soil Sample Analytical Data Summary
Limestone 1H
Lea County, New Mexico
North 32° 19' 33.90", West 103° 32' 59.66"

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	8	10/14/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	89.4
S-25	1	10/7/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	59.8
	3	10/7/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	18.5
	5	10/7/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	28.3
	10	10/7/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	33.5
S-26	1	9/29/20121	In-Situ	<0.00199	<0.00398	60.9	<49.8	<49.8	60.9	22.8
	3	9/29/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	31.5
	5	9/29/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	25.8
	10	9/29/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	78.2
S-27	1	9/29/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	73.4
	3	9/29/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	63.0
	5	9/29/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	50.8
	10	9/29/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	26.6
S-28	1	10/14/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	15.3
	3	10/14/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	20.0
	5	10/14/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	18.6
	8	10/14/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	**609**
	10	3/14/2022	In-Situ	--	--	--	--	--	--	20.3
	15	3/14/2022	In-Situ	--	--	--	--	--	--	17.7
	20	3/14/2022	In-Situ	--	--	--	--	--	--	49.2

Table 1
Soil Sample Analytical Data Summary
Limestone 1H
Lea County, New Mexico
North 32° 19' 33.90", West 103° 32' 59.66"

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
S-29	1	9/29/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	196
	3	9/29/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	103
	5	9/29/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	21.2
	10	9/29/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	8.79
S-30	1	9/29/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	587
	3	9/29/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	**1,490**
	5	9/29/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	456
	10	9/29/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	231
S-31	1	9/29/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**823**
	3	9/29/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	**2,320**
	5	9/29/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	253
	10	9/29/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	34.7
S-32	1	9/29/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	547
	3	9/29/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	206
	5	9/29/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	116
	10	9/29/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	24.2
S-33	1	9/29/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	12.7
	3	9/29/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	53.8
	5	9/29/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	63.7

Table 1
Soil Sample Analytical Data Summary
Limestone 1H
Lea County, New Mexico
North 32° 19' 33.90", West 103° 32' 59.66"

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	10	9/29/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	26.3
S-34	1	9/29/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	11.8
	3	9/29/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	8.39
	5	9/29/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	12.5
	10	9/29/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	17.7
S-35	1	9/29/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	12.4
	3	9/29/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	127
	5	9/29/2021	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	85.8
	10	9/29/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	35.1
S-36	1	9/29/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	16.8
	3	9/29/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	65.3
	5	9/29/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	31.5
	10	9/29/2021	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	18.7
S-37	1	9/29/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	42.3
	3	9/29/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	69.5
	5	9/29/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	38.4
	10	9/29/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	41.2
S-38	1	10/14/2021	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	**695**
	3	10/14/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	72.0

Table 1
Soil Sample Analytical Data Summary
Limestone 1H
Lea County, New Mexico
North 32° 19' 33.90", West 103° 32' 59.66"

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	5	10/14/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	38.0
	8	10/14/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	61.7
S-39	0.5	3/14/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	26.5
	1	3/14/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	26.7

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

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Limestone 1H
Lea County, New Mexico
North 32.023225 West -103.628149

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-1	Bottom	1.5	8/25/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	447
C-2	Bottom	1.5	8/25/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	28.7
C-3	Bottom	1.5	8/25/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	333
C-4	Bottom	1.5	8/25/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	28.7
C-5	Sidewall	0-1.5	8/25/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	123
C-6	Bottom	4.1	8/25/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	368
C-7	Bottom	4.1	8/25/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	512
C-8	Bottom	4.1	8/25/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	827
C-9	Bottom	4.1	8/25/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	1,080
C-10	Bottom	4.1	8/25/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	1,120
C-11	Bottom	4.1	8/25/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	903
C-12	Bottom	4.1	8/25/2022	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	722
C-13	Bottom	4.1	8/25/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	1,660
C-14	Bottom	4.1	8/25/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	1,480
C-15	Bottom	4.1	8/25/2022	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	1,070
C-16	Bottom	4.1	8/25/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	445
C-17	Bottom	4.1	8/25/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	341
C-18	Bottom	4.1	8/25/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	903
C-19	Bottom	4.1	8/25/2022	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	793
C-20	Bottom	4.1	8/25/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	1,020
C-21	Bottom	4.1	8/25/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	1,420
C-22	Bottom	4.1	8/25/2022	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	1,320
C-23	Bottom	4.1	8/25/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	815
C-24	Bottom	4.1	8/25/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	1,470
C-25	Bottom	4.1	8/25/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	682
C-26	Bottom	4.1	8/25/2022	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	320
C-27	Sidewall	0-4.1	8/25/2022	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**708**
			12/20/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	41.6
C-28	Sidewall	0-4.1	8/25/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	328
C-29	Sidewall	0-4.1	8/25/2022	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**1,090**

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Limestone 1H
Lea County, New Mexico
North 32.023225 West -103.628149

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
	Bottom	4.1	11/17/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	603
C-30	Sidewall	0-4.1	8/25/2022	Excavated	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	**895**
			12/16/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	25.0
C-31	Sidewall	0-4.1	8/25/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	**627**
C-32	Sidewall	0-4.1	8/25/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	416
C-33	Bottom	2	8/25/2022	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**935**
		4.1	11/18/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	520
C-34	Bottom	2	8/25/2022	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**741**
		4.1	11/17/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	286
C-35	Bottom	2	8/26/2022	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**839**
		4.1	11/17/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	547
C-36	Bottom	2	8/26/2022	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**763**
		4.1	11/18/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	689
C-37	Bottom	2	8/26/2022	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**648**
		4.1	11/18/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	506
C-38	Bottom	2	8/26/2022	Excavated	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	**1,100**
		4.1	11/18/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	705
C-39	Bottom	2	8/26/2022	Excavated	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**614**
		4.1	11/18/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	514
C-40	Bottom	2	8/26/2022	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**926**
		4.1	11/18/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	622
C-41	Bottom	2	8/26/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	281
C-42	Bottom	2	8/26/2022	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**766**
		4.1	11/18/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	725
C-43	Bottom	2	8/26/2022	Excavated	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	**1,220**
		4.1	11/18/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	130
C-44	Bottom	2	8/26/2022	Excavated	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	**679**
		4.1	11/17/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	452
C-45	Bottom	2	8/26/2022	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**1,090**
		4.1	11/17/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	856

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Limestone 1H
Lea County, New Mexico
North 32.023225 West -103.628149

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-46	Bottom	2	8/26/2022	In-Situ	0.00250	0.00523	<49.9	<49.9	<49.9	<49.9	296
C-47	Sidewall	0-2	8/26/2022	Excavated	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	**969**
		0-4.1	11/21/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	141
C-48	Sidewall	0-2	8/26/2022	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**2,410**
	Bottom	4.1	11/18/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	469
C-49	Bottom	4.1	8/26/2022	In-Situ	0.11500	0.36600	<50.0	<50.0	<50.0	<50.0	1,090
C-50	Bottom	4.1	8/26/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,490
C-51	Bottom	4.1	8/26/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	1,260
C-52	Bottom	4.1	8/26/2022	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	291
C-53	Bottom	4.1	8/26/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	1,990
C-54	Bottom	4.1	8/26/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	1,590
C-55	Bottom	4.1	8/29/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	87.6
C-56	Bottom	4.1	8/29/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	62.7
C-57	Bottom	4.1	8/29/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	38.3
C-58	Bottom	4.1	8/29/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	1,050
C-59	Bottom	4.1	8/29/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	680
C-60	Bottom	4.1	8/29/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	86.6
C-61	Bottom	4.1	8/29/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	284
C-62	Bottom	4.1	8/29/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	664
C-63	Bottom	4.1	8/29/2022	In-Situ	<0.00200	0.01880	<50.0	<50.0	<50.0	<50.0	1,340
C-64	Bottom	4.1	8/29/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	2,670
C-65	Bottom	4.1	8/29/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	656
C-66	Bottom	4.1	8/31/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	823
C-67	Bottom	4.1	8/31/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	357
C-68	Bottom	4.1	8/31/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	394
C-69	Bottom	4.1	8/31/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	567
C-70	Bottom	4.1	8/31/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	483
C-71	Bottom	4.1	8/31/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	125
C-72	Bottom	4.1	8/31/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	78.6
C-73	Bottom	4.1	8/31/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	260

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Limestone 1H
Lea County, New Mexico
North 32.023225 West -103.628149

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-74	Bottom	4.1	8/31/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	113
C-75	Bottom	4.1	8/31/2022	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	451
C-76	Bottom	4.1	8/31/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,120
C-77	Bottom	4.1	8/31/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	698
C-78	Bottom	4.1	8/31/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	371
C-79	Bottom	4.1	8/31/2022	In-Situ	<0.00200	<0.00399	<50.0	102	<50.0	102	537
C-80	Bottom	4.1	8/31/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	442
C-81	Bottom	4.1	12/16/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	26.5
C-82	Bottom	2	9/7/2022	In-Situ	<0.00200	0.05549	<49.9	<49.9	<49.9	<49.9	60.9
C-83	Bottom	2	9/7/2022	In-Situ	<0.00198	0.05403	<49.9	<49.9	<49.9	<49.9	65.9
C-84	Bottom	2	9/7/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	63.3
C-85	Bottom	2	9/7/2022	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	60.3
C-86	Bottom	2	9/7/2022	In-Situ	<0.00201	0.01748	<49.9	<49.9	<49.9	<49.9	158
C-87	Bottom	2	9/7/2022	In-Situ	<0.00286	0.04140	<50.0	<50.0	<50.0	<50.0	244
C-88	Bottom	2	9/7/2022	In-Situ	<0.0782	0.47580	<49.9	<49.9	<49.9	<49.9	397
C-89	Bottom	2	9/7/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	342
C-90	Bottom	2	9/7/2022	In-Situ	<0.00200	<0.00398	<50.0	<50.0	<50.0	<50.0	259
C-91	Sidewall	0-2	9/7/2022	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**641**
			11/21/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	207
C-92	Sidewall	0-2	9/7/2022	In-Situ	<0.00201	0.01242	<49.8	<49.8	<49.9	<49.8	129
C-93	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	127
C-94	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	56
C-95	Bottom	4.1	9/9/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	176
C-96	Bottom	4.1	9/9/2022	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	147
C-97	Bottom	4.1	9/9/2022	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.9	<49.8	928
C-98	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.9	<49.8	1,060
C-99	Bottom	4.1	9/9/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,200
C-100	Bottom	4.1	9/9/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	928
C-101	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00401	<50.0	59.1	<50.0	59.1	387
C-102	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	938

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North 32.023225 West -103.628149

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-103	Bottom	4.1	9/9/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	652
C-104	Bottom	4.1	9/9/2022	In-Situ	<0.00201	<0.00402	<49.8	88.3	<49.8	88.3	1,030
C-105	Bottom	4.1	9/9/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	613
C-106	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	23.7
C-107	Bottom	4.1	9/9/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	21.9
C-108	Bottom	4.1	9/9/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	70.7
C-109	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	617
C-110	Bottom	4.1	9/9/2022	In-Situ	<0.00202	0.00204	<49.9	<49.9	<49.9	<49.9	1,260
C-111	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00399	<49.8	64.5	<49.8	64.5	959
C-112	Bottom	4.1	9/9/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	2,010
C-113	Bottom	4.1	9/9/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	1,010
C-114	Bottom	4.1	9/9/2022	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	1,110
C-115	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,370
C-116	Bottom	4.1	9/9/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,870
C-117	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	310
C-118	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	1,330
C-119	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	982
C-120	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,380
C-121	Bottom	4.1	9/9/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	117
C-122	Bottom	4.1	9/9/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	1,850
C-123	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	505
C-124	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	526
C-125	Bottom	4.1	9/9/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	514
C-126	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	1,180
C-127	bottom	4.1	9/9/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	282
C-128	Bottom	4.1	9/9/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	443
C-129	Sidewall	0-4.1	9/9/2022	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**690**
			12/16/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	455
C-130	Sidewall	0-4.1	9/9/2022	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**1,580**
			11/21/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	418

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Limestone 1H
Lea County, New Mexico
North 32.023225 West -103.628149

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-131	Sidewall	0-4.1	9/9/2022	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**1,710**
			12/14/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	218
C-132	Sidewall	0-4.1	9/9/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	386
C-133	Sidewall	0-4.1	9/9/2022	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	**2,290**
			12/14/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	438
C-134	Sidewall	0-4.1	9/9/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	142
C-135	Sidewall	0-4.1	9/9/2022	In-Situ	<0.00200	0.00451	<49.8	<49.8	<49.8	<49.8	64.0
C-136	Sidewall	0-4.1	9/9/2022	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**743**
			12/21/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	141
C-137	Sidewall	0-4.1	9/9/2022	In-Situ	<0.00202	0.00520	<49.9	<49.9	<49.9	<49.9	**1,050**
C-138	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	767
C-139	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	1,030
C-140	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	717
C-141	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	547
C-142	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	311
C-143	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	1,510
C-144	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	248
C-145	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	179
C-146	Bottom	4.1	9/14/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	337
C-147	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	423
C-148	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	440
C-149	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	688
C-150	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	476
C-151	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	839
C-152	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	902
C-153	Sidewall	0-4.1	9/14/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**1,420**
C-154	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	2,500
C-155	Sidewall	0-4.1	9/14/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	346
C-156	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,580
C-157	Sidewall	0-4.1	9/14/2022	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**1,530**

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Limestone 1H
Lea County, New Mexico
North 32.023225 West -103.628149

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
			12/20/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	146
C-158	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,280
C-159	Sidewall	0-4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	320
C-160	Bottom	4.1	9/14/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	1,420
C-161	Sidewall	0-4.1	9/14/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	360
C-162	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,180
C-163	Sidewall	0-4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	288
C-164	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	462
C-165	Sidewall	0-4.1	9/14/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	93.0
C-166	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	26.4
C-167	Sidewall	0-4.1	9/14/2022	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**4,230**
			11/21/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	54.6
C-168	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	358
C-169	SAMPLE ID NOT USED										
C-170	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	140
C-171	SAMPLE ID NOT USED										
C-172	Bottom	4.1	9/14/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	90.8
C-173	SAMPLE ID NOT USED										
C-174	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	430
C-175	SAMPLE ID NOT USED										
C-176	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	363
C-175	SAMPLE ID NOT USED										
C-178	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	2,040
C-179	SAMPLE ID NOT USED										
C-180	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	905
C-181	Bottom	4.1	12/15/2022	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	443
C-182	Bottom	4.1	9/14/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	1,030
C-183	Bottom	4.1	12/15/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	316
C-184	Bottom	4.1	9/14/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	2,590
C-185	Bottom	4.1	12/15/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	618

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Limestone 1H
Lea County, New Mexico
North 32.023225 West -103.628149

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-186	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	828
C-187	Bottom	4.1	12/15/2022	In-Situ	<0.00200	<0.00401	<49.9	85.8	<49.9	85.8	836
C-188	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,370
C-189	SAMPLE ID NOT USED										
C-190	Bottom	4.1	9/14/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	1,560
C-191	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,680
C-192	Bottom	4.1	9/14/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,910
C-193	Bottom	4.1	9/14/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	323
C-194	Bottom	4.1	9/14/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	162
C-195	Bottom	4.1	9/15/2022	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	1,700
C-196	Bottom	4.1	9/15/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	1,590
C-197	Bottom	4.1	9/15/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	315
C-198	Bottom	4.1	9/15/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	25.3
C-199	Bottom	4.1	9/15/2022	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	32.0
C-200	Bottom	4.1	9/15/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	19.7
C-201	Bottom	4.1	9/15/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	51.7
C-202	Sidewall	0-4.1	9/15/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	22.7
C-203	Sidewall	0-4.1	9/15/2022	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	89.5
C-204	Sidewall	0-4.1	9/15/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	30.4
C-205	Bottom	4.1	9/15/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	18.6
C-206	Bottom	1.5	9/16/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	31.8
C-207	Bottom	1.5	9/16/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	24.6
C-208	Bottom	1.5	9/16/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	41.8
C-209	Bottom	1.5	9/16/2022	Excavated	<0.00201	<0.00402	<49.9	**104**	<49.9	**104**	178
		2.5	11/15/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	60.2
C-210	Bottom	1.5	9/16/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	49.5
C-211	Sidewall	0-1.5	9/16/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	56
C-212	Sidewall	0-1.5	9/16/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	174
C-213	Bottom	1.5	9/16/2022	In-Situ	<0.00198	<0.00396	<50.0	52.1	<50.0	52.1	85.4
C-214	Bottom	1.5	9/16/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	80.3

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Limestone 1H
Lea County, New Mexico
North 32.023225 West -103.628149

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-215	Bottom	1.5	9/16/2022	Excavated	<0.00199	<0.00398	<49.8	**134**	<49.8	**134**	148
		2.5	11/15/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	68.5
C-216	Bottom	1.5	9/16/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	65.2
C-217	Bottom	3.5	9/16/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	70.4
C-218	Bottom	3.5	9/16/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	26.2
C-219	Bottom	3.5	9/16/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	53.6
C-220	Bottom	3.5	9/16/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	58.8
C-221	Bottom	3.5	9/16/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	52.2
C-222	Bottom	3.5	9/16/2022	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	60.3
C-223	Bottom	3.5	9/16/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	39.5
C-224	Bottom	3.5	9/16/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	45.7
C-225	Bottom	3.5	9/16/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	28.9
C-226	Sidewall	0-3.5	9/16/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	54.4
C-227	Sidewall	0-3.5	9/16/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	34.1
C-228	Sidewall	0-3.5	9/16/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	18.3
C-229	Sidewall	0-3.5	9/16/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	242
C-230	Bottom	1.5	9/19/2022	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**2,040**
		4.1	12/21/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	373
C-231	Bottom	1.5	9/19/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	345
C-232	Bottom	1.5	9/19/2022	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**632**
		2.5	11/21/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	50.5
C-233	Bottom	1.5	9/19/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	310
C-234	Bottom	1.5	9/19/2022	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**826**
		2.5	11/21/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	389
C-235	Bottom	1.5	9/19/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	275
C-236	Bottom	1.5	9/19/2022	Excavated	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	**1,530**
		4.1	11/16/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	713
C-237	Bottom	1.5	9/19/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	261
C-238	Bottom	1.5	9/19/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	256
C-239	Bottom	1.5	9/19/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	104

Table 2
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Lea County, New Mexico
North 32.023225 West -103.628149

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-240	Bottom	1.5	9/19/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	80.3
C-241	Bottom	1.5	9/19/2022	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**1,200**
		4.1	11/16/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,480
C-242	Bottom	1.5	9/19/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	392
C-243	Sidewall	0-1.5	9/19/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	289
C-244	Sidewall	0-1.5	9/19/2022	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**789**
		0-4.1	12/21/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	566
C-245	Bottom	2	9/19/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	80.8
C-246	Bottom	2	9/19/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	200
C-247	Bottom	2	9/19/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	124
C-248	Bottom	2	9/19/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	148
C-249	Bottom	2	9/19/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	140
C-250	Bottom	2	9/19/2022	Excavated	<0.00200	<0.00399	<49.9	**196**	<49.9	**196**	246
		2.5	11/15/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	53.7
C-251	Bottom	2	9/19/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	64.5
C-252	Bottom	2	9/19/2022	Excavated	<0.00200	<0.00401	<50.0	**117**	<50.0	**117**	357
		2.5	11/15/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	47.9
C-253	Bottom	2	9/19/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	90.4
C-254	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	1,190
C-255	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	659
C-256	Bottom	4.1	9/19/2022	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	127
C-257	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	177
C-258	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	68.2
C-259	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	81.4
C-260	Bottom	4.1	9/19/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	220
C-261	Bottom	4.1	9/19/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	25.1
C-262	Bottom	4.1	9/19/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	50.8
C-263	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	212
C-264	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	265
C-265	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	50.8

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Limestone 1H
Lea County, New Mexico
North 32.023225 West -103.628149

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
C-266	Bottom	4.1	9/19/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	1,240
C-267	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	46.7
C-268	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	89.5
C-269	Bottom	4.1	9/19/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	72.3
C-270	Bottom	4.1	9/19/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	347
C-271	Bottom	4.1	9/19/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	31.3
C-272	Bottom	4.1	9/19/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	55.4
C-273	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	29.9
C-274	Bottom	4.1	9/19/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	106
C-275	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	2,270
C-276	Bottom	4.1	9/19/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	2,530
C-277	Bottom	4.1	9/19/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	207
C-278	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	86.7
C-279	Bottom	4.1	9/19/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	1,330
C-280	Bottom	4.1	9/19/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	624
C-281	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	94.4
C-282	Bottom	4.1	9/19/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	141
Backfill Composite Samples											
BF-1	**Backfill**	--	9/2/2022	In-Situ	<0.00101	<0.00202	<50.0	<50.0	<50.0	<50.0	10.6
BF-2	**Backfill**	--	9/2/2022	In-Situ	<0.00101	<0.00202	<49.9	<49.9	<49.9	<49.9	14.5
BF-3	**Backfill**	--	9/2/2022	In-Situ	<0.00101	<0.00202	<50.0	<50.0	<50.0	<50.0	11.0
BF-4	**Backfill**	--	9/2/2022	In-Situ	<0.000992	<0.00198	<49.8	<49.8	<49.8	<49.8	12.7
BF-5	**Backfill**	--	9/2/2022	In-Situ	<0.00101	<0.00202	<49.8	<49.8	<49.8	<49.8	20.2
BF-6	**Backfill**	--	9/2/2022	In-Situ	<0.00101	<0.00202	<49.9	<49.9	<49.9	<49.9	13.2
BF-7	**Backfill**	--	9/2/2022	In-Situ	<0.000996	<0.00199	<50.0	<50.0	<50.0	<50.0	14.7
BF-8	**Backfill**	--	9/2/2022	In-Situ	<0.00101	<0.00202	<49.9	<49.9	<49.9	<49.9	11.1
BF-9	**Backfill**	--	9/2/2022	In-Situ	<0.00100	<0.00200	<49.9	<49.9	<49.9	<49.9	16.9
BF-10	**Backfill**	--	9/2/2022	In-Situ	<0.00101	<0.00202	<50.0	<50.0	<50.0	<50.0	13.9
BF-11	**Backfill**	--	9/2/2022	In-Situ	<0.00101	<0.00202	<49.9	<49.9	<49.9	<49.9	17.6

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Limestone 1H
Lea County, New Mexico
North 32.023225 West -103.628149

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/10,000***
BF-12	**Backfill**	--	9/2/2022	In-Situ	<0.000990	<0.00198	<50.0	<50.0	<50.0	<50.0	10.3
BF-13	**Backfill**	--	9/2/2022	In-Situ	<0.00101	<0.00202	<49.9	<49.9	<49.9	<49.9	15.0
BF-14	**Backfill**	--	9/2/2022	In-Situ	<0.000990	<0.00198	<50.0	<50.0	<50.0	<50.0	16.4
BF-15	**Backfill**	--	9/2/2022	In-Situ	<0.000992	<0.00198	<50.0	<50.0	<50.0	<50.0	13.8
BF-16	**Backfill**	--	9/2/2022	In-Situ	<0.000990	<0.00198	<49.8	<49.8	<49.8	<49.8	16.7
BF-17	**Backfill**	--	9/2/2022	In-Situ	<0.00101	<0.00202	<49.9	<49.9	<49.9	<49.9	18.5
BF-18	**Backfill**	--	9/2/2022	In-Situ	<0.000996	<0.00199	<49.8	<49.8	<49.8	<49.8	9.60
BF-19	**Backfill**	--	9/2/2022	In-Situ	<0.00101	<0.00202	<49.9	<49.9	<49.9	<49.9	13.1
BF-20	**Backfill**	--	9/2/2022	In-Situ	<0.00100	<0.00200	<49.9	<49.9	<49.9	<49.9	12.3

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

Depth in feet below ground surface (bgs)

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

Highlighted Denotes Levels Adjacent to Production Equipment, where a Deferral is Requested from NMOCD

Bold and Highlighted Denotes Conetrations Above OCD Closure Criteria

Figures

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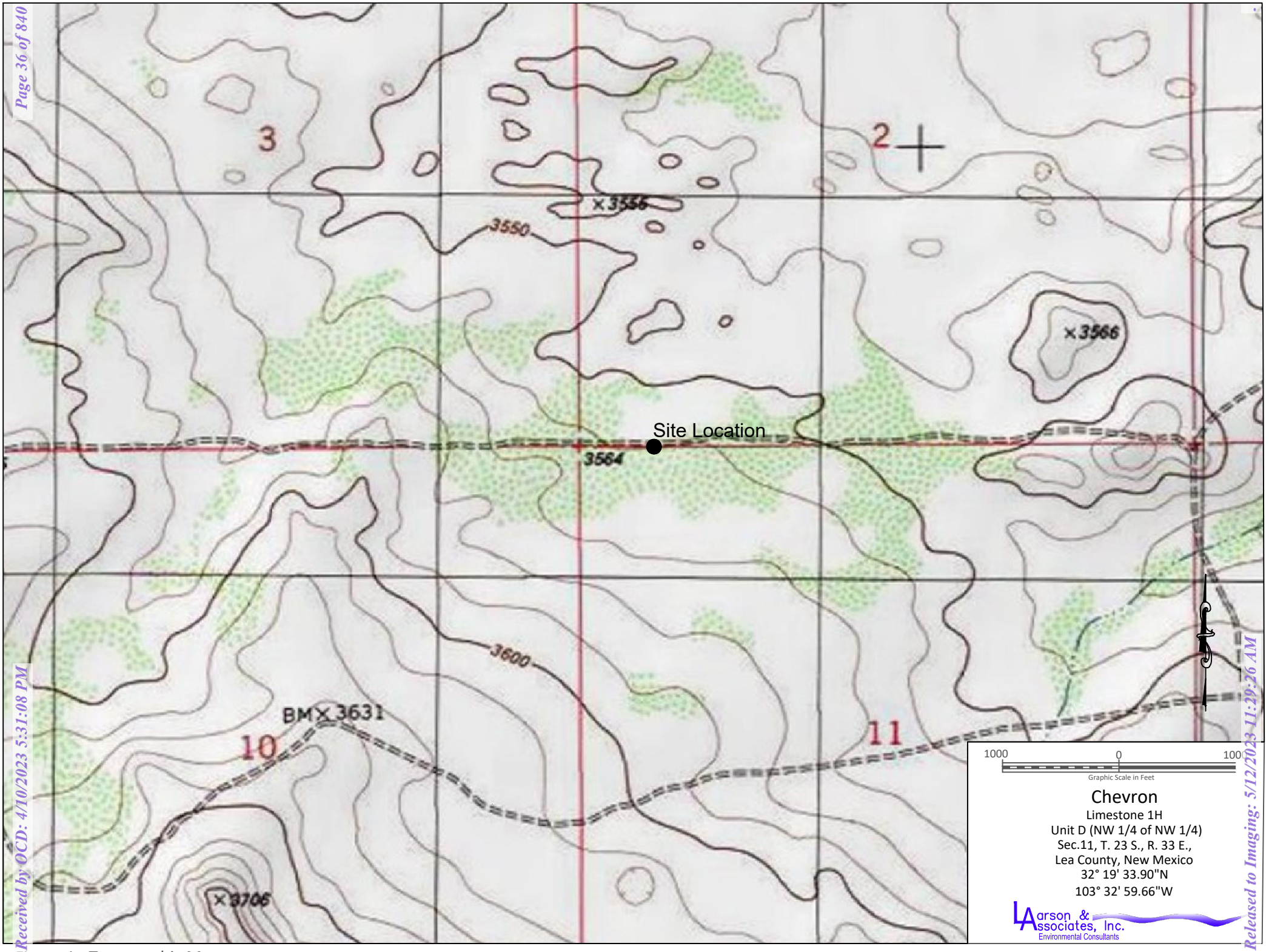

Figure 1 - Topographic Map

Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

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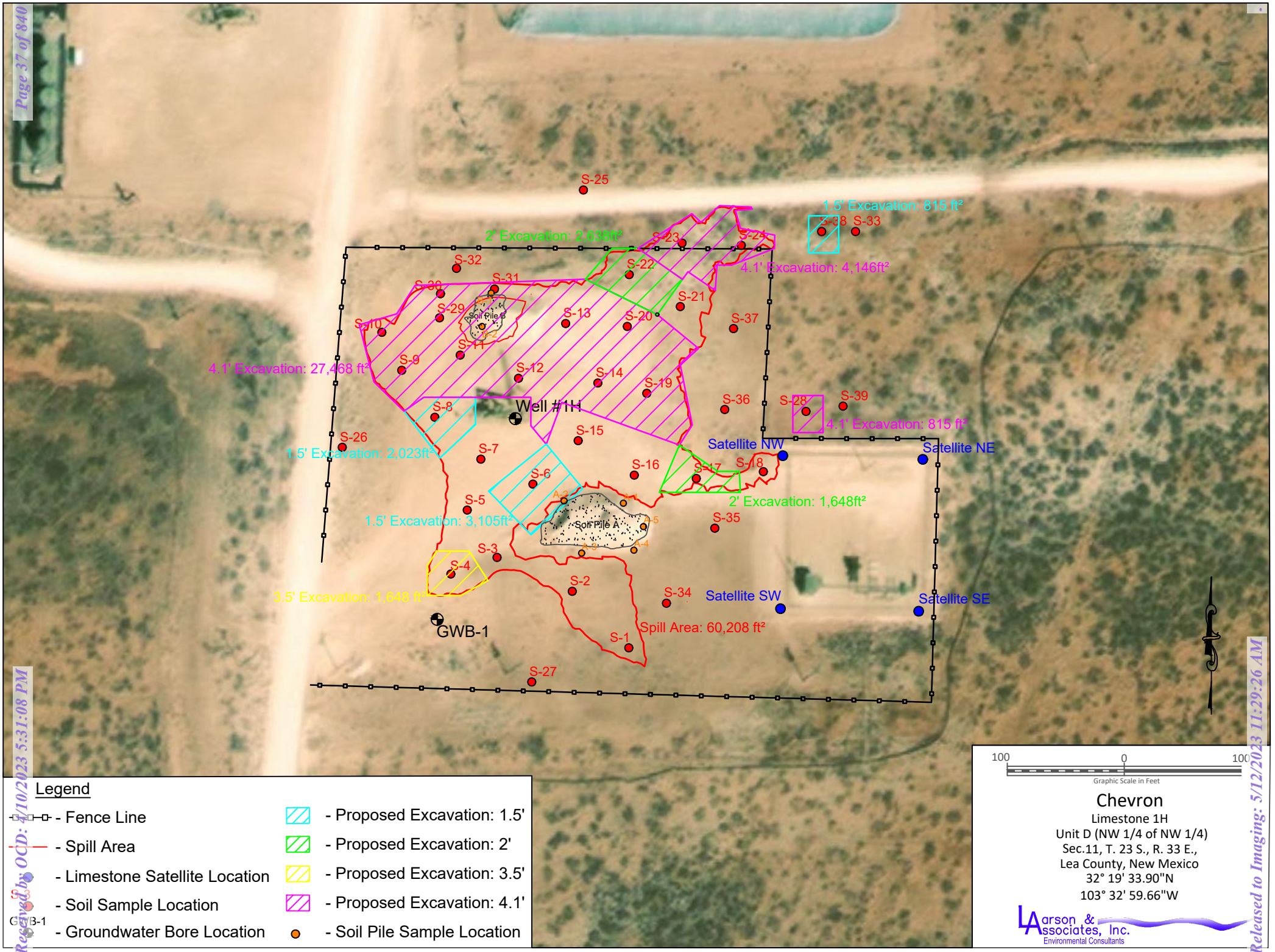


Figure 2 - Aerial Map Showing Proposed Excavation Locations

Received by OCD: 5/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

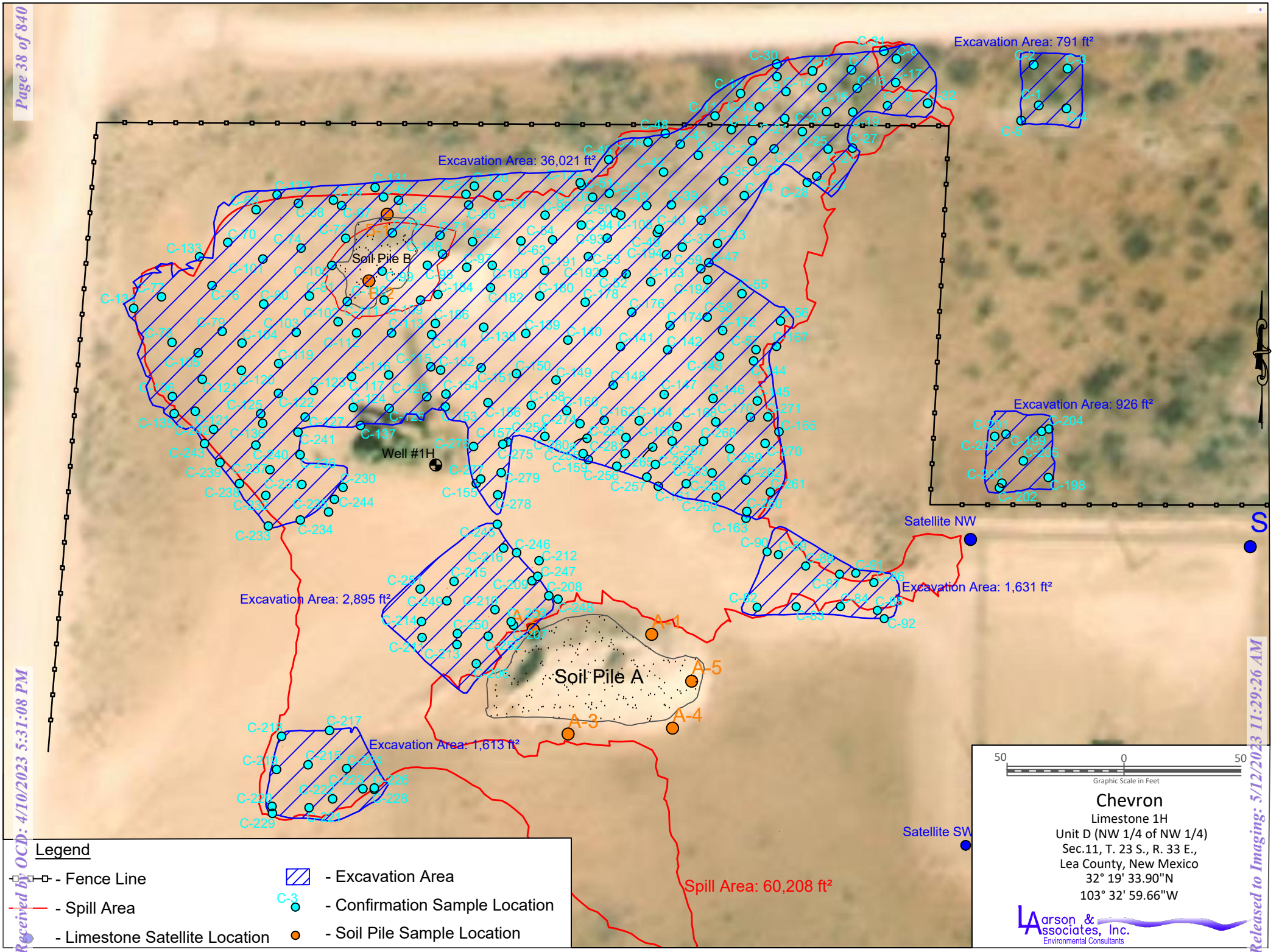


Figure 3 - Focused Aerial Map Showing Excavation Locations and Confirmation Samples

Received by OCD: 4/10/2023 5:31:08 PM
Released to Imaging: 5/12/2023 11:29:26 AM

Appendix A

Initial C-141 and Chevron Spill Calculations

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	nAPP2121639500
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron USA Inc	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 32.32596 Longitude -103.5491
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Limestone 1H	Site Type: Oil
Date Release Discovered: 7-24-21	API# *(if applicable):* 30-025-41360

Unit Letter	Section	Township	Range	County
D	11	23S	33E	Lea

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 5619bbls	Volume Recovered (bbls) 5440 bbls
	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: This well was frac hit 7/24 PM, the stuffing box blew out and released 219 bbls produced water across location until approximately 1PM 7/25, 40 bbls of produced water was recovered. On 7-27 it was frac hit again. An emergency berm was constructed and 5400 bbls of produced water was diverted to the bermed area. All water was recovered via vac trucks. Attached spill map notes original spill area in blue, areas 1-4 and 6-8, and bermed area in orange, area 5.

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? Over 25 bbls produced water
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Amy Barnhill notified Mike Bratcher via e-mail on 7-25-21.	

Initial Response

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

☒ The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: Amy Barnhill Title: Water Specialist

Signature: Amy Barnhill Date: 8-4-21 Updated 8-9-21

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

OCD Only

Received by: Date:

Spill Calculations

MCBU Spill Calculations Worksheet (April 2020 Release) — All light blue areas are Required Information

Only Change Values in Columns B, C & D !

Rectangular spill — Do Not Change Formulas!!

All dimensions in feet !

	Length	Width	Depth	Total Volume of Fluid in barrels	
Average total depth	86	5	0.0208	1.59	Fluid total
Use oil depth or skim thickness				0.00	Oil volume
				1.59	Water Volume

Triangular spill

All dimensions in feet !

	Length	Width	Depth	Total Volume of Fluid in barrels	
Average total depth	50	68	0.0208	6.30	Fluid total
Use oil depth or skim thickness				0.00	Oil volume
				6.30	Water Volume

Circular Spill

All dimensions in feet !

	Diameter	Depth		Total Volume of Fluid in barrels	
Average total depth				0.00	Fluid total
Use oil depth or skim thickness				0.00	Oil volume
				0.00	Water Volume

Fluid in Soil Rectangular Spill *

All dimensions in feet !

	Length	Width	Depth-Soil Penetration	Total Volume of Fluid in Soil Pore Space (15%) in barrels	
Average total depth	86	5	0.3333	3.83	Fluid total

Fluid in Soil Triangular Spill *

All dimensions in feet !

	Length	Width	Depth-Soil Penetration	Total Volume of Fluid in Soil Pore Space (15%) in barrels	
Average total depth	50	68	0.1667	7.57	Fluid total

Fluid in Soil Circular Spill *

All dimensions in feet !

	Diameter	Depth-Soil Penetration		Total Volume of Fluid in Soil Pore Space (15%) in barrels	
Average total depth	8	3		4.03	Fluid total

* Based on 15% in soil pore space. Adjust up or down based upon site-specific conditions (sand vs. clay, soil dry or wet prior to event, etc.), local knowledge and judgement.

Conversions	Feet
1 inch	0.0833
2 inches	0.1667
3 inches	0.2500
4 inches	0.3333
5 inches	0.4167
6 inches	0.5000
7 inches	0.5833
8 inches	0.6667
9 inches	0.7500
10 inches	0.8333
11 inches	0.9167
1/256 inch	0.000326
1/128 inch	0.000651
1/64 inch	0.0013
1/32 inch	0.0026
1/16 inch	0.0052
1/8 inch	0.0104
1/4 inch	0.0208
3/8 inch	0.0313
1/2 inch	0.0417
5/8 inch	0.0521
3/4 inch	0.0625
7/8 inch	0.0729

Incident Date	7/24/2021-7/25/2021
Incident Time	Start Time 5:30 PM — End Time 1:00 PM
Location	Limestone Fed 1H
Lat/Long	32.32596,-103.5491

All volumes in following table in barrels

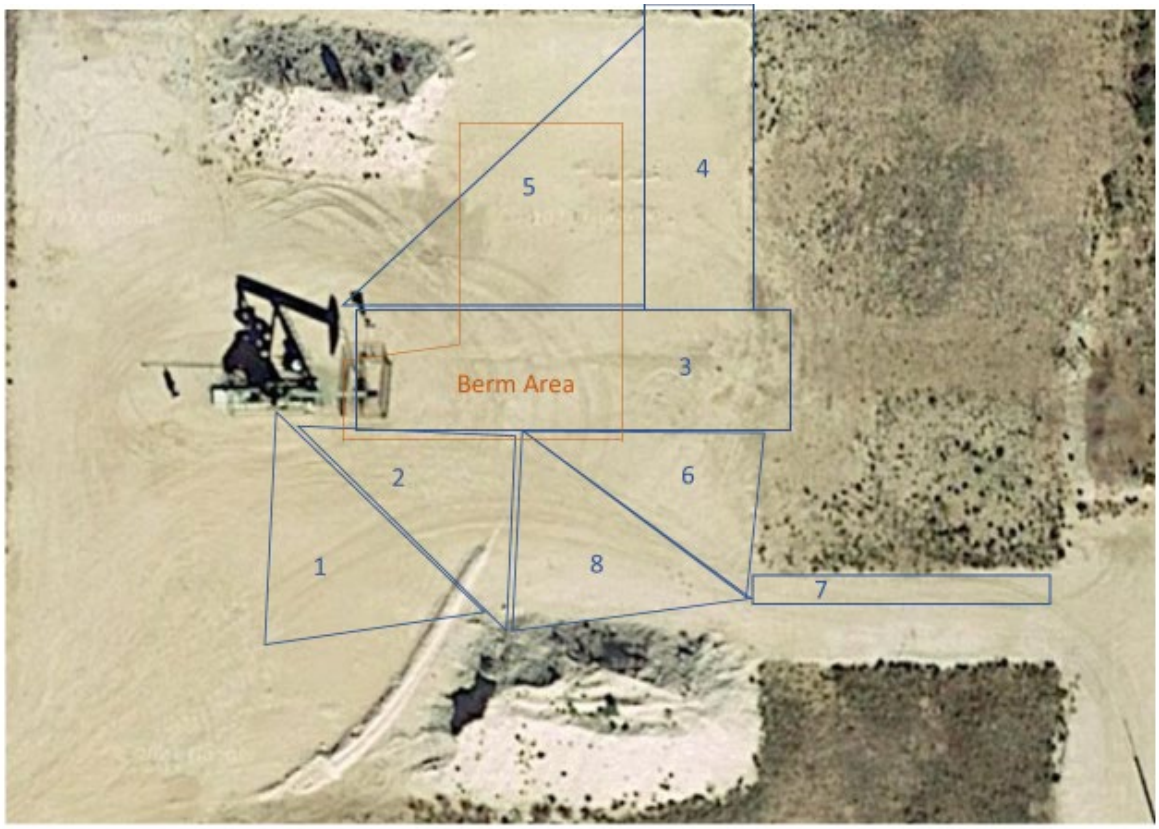
Area	Standing Liquid	In Soil	dimensions / shape	Oil Volume	Water Volume
1		x	50x52x.5" tri		2.17
2		x	62x52x2" tri		3.59
3	33.79	60.78	130x35x.5" (6"in soil)		94.57
4	8.34	20.04	90x25x.5" (4"in soil)		28.38
5		x	90x80x2" tri		16.03
6	6.3	15.14	50x68x.25" tri (4" in soil)		21.44
7	1.59	3.83	86x5x.25 (4"in soil)		5.42
8		x	50x68x2" tri		7.57
			Total Fluid	0	179.2

Fluid Recovered in barrels	Oil Volume	Water Volume
	0	40

Weather Conditions	Clear 90F
Incident Detailed Discription	Frac hit
Immediate Actions Taken	established permiter and contacted WIT. WIT mobilized resources to divert fluid to frac tanks
Equipment Component	frac communicaiton
Cause	Frac hit
Failure Description	stuffing box blew out

Person Making Report		
	Name	Mike Nemanic
	Phone	832-294-4558

Page 1


5
4
Berm Area
3
2
6
1
8
7

Appendix B

Karst Risk Potential Map

Limestone 1H
Low

Appendix C

NMOCD Communications

From: Barnhill, Amy D.
To: Robert Nelson
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 103526
Date: Tuesday, July 26, 2022 9:58:55 AM

Limestone

Thank you,
Amy

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, July 20, 2022 3:50 PM
To: Barnhill, Amy D. <ABarnhill@chevron.com>
Subject: [**EXTERNAL**] The Oil Conservation Division (OCD) has approved the application, Application ID: 103526

To whom it may concern (c/o Amy Barnhill for CHEVRON U S A INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2121639500, with the following conditions:

- **Amended RAP Approved.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-470-3407
Jennifer.Nobui@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Daniel St. Germain

From: Robert Nelson
Sent: Wednesday, March 22, 2023 8:39 AM
To: Daniel St. Germain
Subject: FW: Limestone 1H (nAPP212639500) Excavation Backfill Notice
Attachments: Table 2 Confirmation Soil Sample Analytical Data Summary - Limestone 1H (version 1).pdf; Figure 3a - Focused Aerial Map Showing Excavation Locations and Confirmation Samples.pdf

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From: Robert Nelson
Sent: Wednesday, January 4, 2023 3:08 PM
To: 'Hamlet, Robert, EMNRD' <robert.hamlet@state.nm.us>; 'Nobui, Jennifer, EMNRD' <jennifer.nobui@state.nm.us>
Cc: 'Barnhill, Amy D.' <ABarnhill@chevron.com>
Subject: RE: Limestone 1H (nAPP212639500) Excavation Backfill Notice

Hello Mr. Hamlet and Ms. Nobui,

Larson & Associates, Inc. (LAI), on behalf of Chevron USA, submits the attached confirmation laboratory analytical data and sample location map to the New Mexico Oil Conservation Division (OCD) District I to provide two (2) business days notification prior to backfilling the remaining excavation area at the Limestone 1H (nAPP212639500) in Lea County, New Mexico. Please feel free to contact Amy Barnhill with Chevron at (432) 687-7108 or ABarnhill@chevron.com or me with any questions or concerns.

Thank you,

Robert Nelson
Sr. Geologist
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com
Larson & Associates, Inc.
Environmental Consultants

From: Robert Nelson
Sent: Tuesday, December 20, 2022 2:45 PM
To: Hamlet, Robert, EMNRD <robert.hamlet@state.nm.us>; Nobui, Jennifer, EMNRD <jennifer.nobui@state.nm.us>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>
Subject: Limestone 1H (nAPP212639500) Excavation Backfill Notice

Hello Mr. Hamlet and Ms. Nobui,

Larson & Associates, Inc. (LAI), on behalf of Chevron USA, submits the attached confirmation laboratory analytical data and sample location map to the New Mexico Oil Conservation Division (OCD) District I to provide two (2) business days notification prior to backfilling portions of the excavation at the Limestone 1H (nAPP212639500) in Lea County, New Mexico. The areas that will be backfilled are the five (5) separate excavations areas, excluding the larger/main excavation area, to allow for additional backfill material to be stockpiled on Site. An additional backfill notice will be provided to the NMOCD following the completion of the larger/main excavation area. Please feel free to contact Amy Barnhill with Chevron at (432) 687-7108 or ABarnhill@chevron.com or me with any questions or concerns.

Thank you,

Robert Nelson
Sr. Geologist
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com

Appendix D

Laboratory Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-18073-1
Laboratory Sample Delivery Group: 21-0100-24
Client Project/Site: Limestone 1H

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

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
8/25/2022 12:10:50 PM

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
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: Limestone 1H

Laboratory Job ID: 880-18073-1
SDG: 21-0100-24

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
¤	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: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

Job ID: 880-18073-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-18073-1

Receipt
The samples were received on 8/15/2022 9:15 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 0.5º C.

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-32815 recovered above the upper control limit for o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32569 and analytical batch 880-32815 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 method blank for preparation batch 880-32835 and analytical batch 880-32815 contained Ethylbenzene, m,p-Xylenes and Xylenes, Total above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-32815 recovered above the upper control limit for o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-32815/60).

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 880-32175 and analytical batch 880-32121 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 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32206 and analytical batch 880-32197 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 880-32305 and 880-32305 and analytical batch 880-32619 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: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

Client Sample ID: A-1

Date Collected: 08/12/22 12:00
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		08/24/22 16:09	08/25/22 03:53	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		08/24/22 16:09	08/25/22 03:53	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		08/24/22 16:09	08/25/22 03:53	1
m,p-Xylenes	<0.00402	U F1	0.00402		mg/Kg		08/24/22 16:09	08/25/22 03:53	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		08/24/22 16:09	08/25/22 03:53	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		08/24/22 16:09	08/25/22 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/24/22 16:09*	*08/25/22 03:53*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*08/24/22 16:09*	*08/25/22 03:53*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/25/22 10:15	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			08/16/22 09:21	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		08/15/22 13:57	08/16/22 01:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/15/22 13:57	08/16/22 01:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/15/22 13:57	08/16/22 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*08/15/22 13:57*	*08/16/22 01:23*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*08/15/22 13:57*	*08/16/22 01:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1660**		24.9		mg/Kg			08/20/22 22:59	5

Client Sample ID: A-2

Date Collected: 08/12/22 12:01
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/24/22 16:09	08/25/22 06:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/24/22 16:09	08/25/22 06:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/24/22 16:09	08/25/22 06:28	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/24/22 16:09	08/25/22 06:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/24/22 16:09	08/25/22 06:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/24/22 16:09	08/25/22 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/24/22 16:09*	*08/25/22 06:28*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/24/22 16:09*	*08/25/22 06:28*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

Client Sample ID: A-2

Date Collected: 08/12/22 12:01
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-2

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/25/22 10:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**76.8**		50.0		mg/Kg			08/16/22 09:21	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		08/15/22 13:57	08/16/22 02:03	1
Diesel Range Organics (Over C10-C28)	**76.8**		50.0		mg/Kg		08/15/22 13:57	08/16/22 02:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 13:57	08/16/22 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*08/15/22 13:57*	*08/16/22 02:03*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*08/15/22 13:57*	*08/16/22 02:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8340**	**F1**	100		mg/Kg			08/20/22 23:08	20

Client Sample ID: A-3

Date Collected: 08/12/22 12:02
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/24/22 16:09	08/25/22 06:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/24/22 16:09	08/25/22 06:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/24/22 16:09	08/25/22 06:54	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/24/22 16:09	08/25/22 06:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/24/22 16:09	08/25/22 06:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/24/22 16:09	08/25/22 06:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/24/22 16:09*	*08/25/22 06:54*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/24/22 16:09*	*08/25/22 06:54*	*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			08/25/22 10:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**398**		49.9		mg/Kg			08/16/22 09:21	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		08/15/22 13:57	08/16/22 03:04	1
Diesel Range Organics (Over C10-C28)	**237**		49.9		mg/Kg		08/15/22 13:57	08/16/22 03:04	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

Client Sample ID: A-3

Date Collected: 08/12/22 12:02
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	161		49.9		mg/Kg		08/15/22 13:57	08/16/22 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*08/15/22 13:57*	*08/16/22 03:04*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*08/15/22 13:57*	*08/16/22 03:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		4.96		mg/Kg			08/20/22 23:35	1

Client Sample ID: A-4

Date Collected: 08/12/22 12:03
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/24/22 16:09	08/25/22 07:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/24/22 16:09	08/25/22 07:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/24/22 16:09	08/25/22 07:20	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/24/22 16:09	08/25/22 07:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/24/22 16:09	08/25/22 07:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/24/22 16:09	08/25/22 07:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/24/22 16:09*	*08/25/22 07:20*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/24/22 16:09*	*08/25/22 07:20*	*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			08/25/22 10:15	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			08/16/22 09:21	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		08/15/22 13:57	08/16/22 02:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/15/22 13:57	08/16/22 02:24	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/15/22 13:57	08/16/22 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*08/15/22 13:57*	*08/16/22 02:24*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*08/15/22 13:57*	*08/16/22 02:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.5		5.02		mg/Kg			08/20/22 23:45	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

Client Sample ID: A-5

Date Collected: 08/12/22 12:04
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 07:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 07:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 07:46	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		08/24/22 16:09	08/25/22 07:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 07:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/24/22 16:09	08/25/22 07:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/24/22 16:09*	*08/25/22 07:46*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/24/22 16:09*	*08/25/22 07:46*	*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			08/25/22 10:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**74.8**		49.9		mg/Kg			08/16/22 09:21	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		08/16/22 09:10	08/16/22 11:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		08/16/22 09:10	08/16/22 11:25	1
Oil Range Organics (Over C28-C36)	**74.8**		49.9		mg/Kg		08/16/22 09:10	08/16/22 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*78*		*70 - 130*	*08/16/22 09:10*	*08/16/22 11:25*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*08/16/22 09:10*	*08/16/22 11:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.5**		4.97		mg/Kg			08/21/22 00:12	1

Client Sample ID: B-1

Date Collected: 08/12/22 12:08
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/24/22 16:09	08/25/22 09:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/24/22 16:09	08/25/22 09:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/24/22 16:09	08/25/22 09:29	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/24/22 16:09	08/25/22 09:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/24/22 16:09	08/25/22 09:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/24/22 16:09	08/25/22 09:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/24/22 16:09*	*08/25/22 09:29*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/24/22 16:09*	*08/25/22 09:29*	*1*

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

Client Sample ID: B-1

Date Collected: 08/12/22 12:08
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-6
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/25/22 10:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**59.6**		49.9		mg/Kg			08/16/22 09:21	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		08/16/22 09:10	08/16/22 12:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/16/22 09:10	08/16/22 12:30	1
Oil Range Organics (Over C28-C36)	**59.6**		49.9		mg/Kg		08/16/22 09:10	08/16/22 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*08/16/22 09:10*	*08/16/22 12:30*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*08/16/22 09:10*	*08/16/22 12:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**184**		4.98		mg/Kg			08/21/22 00:22	1

Client Sample ID: B-2

Date Collected: 08/12/22 12:09
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-7
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 09:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 09:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 09:54	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		08/24/22 16:09	08/25/22 09:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 09:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/24/22 16:09	08/25/22 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*08/24/22 16:09*	*08/25/22 09:54*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*08/24/22 16:09*	*08/25/22 09:54*	*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			08/25/22 10:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4020**		50.0		mg/Kg			08/16/22 09:21	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		08/16/22 09:10	08/16/22 12:51	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

Client Sample ID: B-2
Date Collected: 08/12/22 12:09
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	2930		50.0		mg/Kg		08/16/22 09:10	08/16/22 12:51	1
Oil Range Organics (Over C28-C36)	1090		50.0		mg/Kg		08/16/22 09:10	08/16/22 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*08/16/22 09:10*	*08/16/22 12:51*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*08/16/22 09:10*	*08/16/22 12:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5660		50.0		mg/Kg			08/21/22 00:31	10

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

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)
880-18073-1	A-1	101	87
880-18073-1 MS	A-1	109	92
880-18073-1 MSD	A-1	109	103
880-18073-2	A-2	111	95
880-18073-3	A-3	100	90
880-18073-4	A-4	105	102
880-18073-5	A-5	109	103
880-18073-6	B-1	124	95
880-18073-7	B-2	107	83
LCS 880-32569/1-A	Lab Control Sample	109	98
LCSD 880-32569/2-A	Lab Control Sample Dup	119	98
MB 880-32569/5-A	Method Blank	81	84
MB 880-32835/5-A	Method Blank	80	88

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)
880-18073-1	A-1	93	96
880-18073-2	A-2	94	101
880-18073-3	A-3	96	99
880-18073-4	A-4	86	98
880-18073-5	A-5	78	80
880-18073-5 MS	A-5	76	71
880-18073-5 MSD	A-5	76	71
880-18073-6	B-1	85	87
880-18073-7	B-2	93	103
LCS 880-32175/2-A	Lab Control Sample	123	125
LCS 880-32206/2-A	Lab Control Sample	105	108
LCSD 880-32175/3-A	Lab Control Sample Dup	110	115
LCSD 880-32206/3-A	Lab Control Sample Dup	97	99
MB 880-32175/1-A	Method Blank	89	98
MB 880-32206/1-A	Method Blank	77	81

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32569/5-A
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32569

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 03:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 03:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 03:27	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/24/22 16:09	08/25/22 03:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 03:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/24/22 16:09	08/25/22 03:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*08/24/22 16:09*	*08/25/22 03:27*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*08/24/22 16:09*	*08/25/22 03:27*	*1*

Lab Sample ID: LCS 880-32569/1-A
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32569

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08300		mg/Kg		83	70 - 130		
Toluene			0.100	0.08568		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.09101		mg/Kg		91	70 - 130		
m,p-Xylenes			0.200	0.1888		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.1069		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-32569/2-A
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32569

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09641		mg/Kg		96	70 - 130	15	35
Toluene			0.100	0.09650		mg/Kg		96	70 - 130	12	35
Ethylbenzene			0.100	0.1051		mg/Kg		105	70 - 130	14	35
m,p-Xylenes			0.200	0.2168		mg/Kg		108	70 - 130	14	35
o-Xylene			0.100	0.1225		mg/Kg		122	70 - 130	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-18073-1 MS
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: A-1
Prep Type: Total/NA
Prep Batch: 32569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1	0.100	0.05515	F1	mg/Kg		55	70 - 130		
Toluene	<0.00201	U F1	0.100	0.06408	F1	mg/Kg		64	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

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

Lab Sample ID: 880-18073-1 MS
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: A-1
Prep Type: Total/NA
Prep Batch: 32569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.100	0.06140	F1	mg/Kg		61	70 - 130
m,p-Xylenes	<0.00402	U F1	0.200	0.1261	F1	mg/Kg		63	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.07280		mg/Kg		73	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 880-18073-1 MSD
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: A-1
Prep Type: Total/NA
Prep Batch: 32569

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0998	0.05219	F1	mg/Kg		52	70 - 130	6	35
Toluene	<0.00201	U F1	0.0998	0.06153	F1	mg/Kg		62	70 - 130	4	35
Ethylbenzene	<0.00201	U F1	0.0998	0.05861	F1	mg/Kg		59	70 - 130	5	35
m,p-Xylenes	<0.00402	U F1	0.200	0.1208	F1	mg/Kg		61	70 - 130	4	35
o-Xylene	<0.00201	U F1	0.0998	0.06845	F1	mg/Kg		69	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-32835/5-A
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32835

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:24	08/24/22 13:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:24	08/24/22 13:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:24	08/24/22 13:56	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		08/24/22 10:24	08/24/22 13:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:24	08/24/22 13:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/24/22 10:24	08/24/22 13:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*08/24/22 10:24*	*08/24/22 13:56*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/24/22 10:24*	*08/24/22 13:56*	*1*

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

Lab Sample ID: MB 880-32175/1-A
Matrix: Solid
Analysis Batch: 32121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32175

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		08/15/22 13:57	08/15/22 20:31	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-32175/1-A
Matrix: Solid
Analysis Batch: 32121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32175

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		08/15/22 13:57	08/15/22 20:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 13:57	08/15/22 20:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*08/15/22 13:57*	*08/15/22 20:31*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*08/15/22 13:57*	*08/15/22 20:31*	*1*

Lab Sample ID: LCS 880-32175/2-A
Matrix: Solid
Analysis Batch: 32121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32175

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	986.1		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1108		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*123*		*70 - 130*
o-Terphenyl (Surr)	*125*		*70 - 130*

Lab Sample ID: LCSD 880-32175/3-A
Matrix: Solid
Analysis Batch: 32121

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32175

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	960.2		mg/Kg		96	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1017		mg/Kg		102	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*110*		*70 - 130*
o-Terphenyl (Surr)	*115*		*70 - 130*

Lab Sample ID: MB 880-32206/1-A
Matrix: Solid
Analysis Batch: 32197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32206

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		08/16/22 09:10	08/16/22 10:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/22 09:10	08/16/22 10:20	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/22 09:10	08/16/22 10:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*77*		*70 - 130*	*08/16/22 09:10*	*08/16/22 10:20*	*1*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-32206/1-A
Matrix: Solid
Analysis Batch: 32197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32206

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	81		70 - 130	08/16/22 09:10	08/16/22 10:20	1

Lab Sample ID: LCS 880-32206/2-A
Matrix: Solid
Analysis Batch: 32197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32206

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1011		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	923.3		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	105		70 - 130
o-Terphenyl (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-32206/3-A
Matrix: Solid
Analysis Batch: 32197

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32206

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	908.1		mg/Kg		91	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	858.8		mg/Kg		86	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	97		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Lab Sample ID: 880-18073-5 MS
Matrix: Solid
Analysis Batch: 32197

Client Sample ID: A-5
Prep Type: Total/NA
Prep Batch: 32206

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	755.4		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	640.0	F1	mg/Kg		64	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	76		70 - 130
o-Terphenyl (Surr)	71		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

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

Lab Sample ID: 880-18073-5 MSD
Matrix: Solid
Analysis Batch: 32197

Client Sample ID: A-5
Prep Type: Total/NA
Prep Batch: 32206

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	998	776.0		mg/Kg		78	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	635.8	F1	mg/Kg		64	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*76*		*70 - 130*
o-Terphenyl (Surr)	*71*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32305/1-A
Matrix: Solid
Analysis Batch: 32619

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			08/20/22 20:31	1

Lab Sample ID: LCS 880-32305/2-A
Matrix: Solid
Analysis Batch: 32619

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	245.6		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-32305/3-A
Matrix: Solid
Analysis Batch: 32619

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	236.0		mg/Kg		94	90 - 110	4	20

Lab Sample ID: 880-18073-2 MS
Matrix: Solid
Analysis Batch: 32619

Client Sample ID: A-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	8340	F1	5000	14740	F1	mg/Kg		128	90 - 110		

Lab Sample ID: 880-18073-2 MSD
Matrix: Solid
Analysis Batch: 32619

Client Sample ID: A-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8340	F1	5000	14760	F1	mg/Kg		128	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

GC VOA

Prep Batch: 32569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18073-1	A-1	Total/NA	Solid	5035	
880-18073-2	A-2	Total/NA	Solid	5035	
880-18073-3	A-3	Total/NA	Solid	5035	
880-18073-4	A-4	Total/NA	Solid	5035	
880-18073-5	A-5	Total/NA	Solid	5035	
880-18073-6	B-1	Total/NA	Solid	5035	
880-18073-7	B-2	Total/NA	Solid	5035	
MB 880-32569/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32569/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32569/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18073-1 MS	A-1	Total/NA	Solid	5035	
880-18073-1 MSD	A-1	Total/NA	Solid	5035	

Analysis Batch: 32815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18073-1	A-1	Total/NA	Solid	8021B	32569
880-18073-2	A-2	Total/NA	Solid	8021B	32569
880-18073-3	A-3	Total/NA	Solid	8021B	32569
880-18073-4	A-4	Total/NA	Solid	8021B	32569
880-18073-5	A-5	Total/NA	Solid	8021B	32569
880-18073-6	B-1	Total/NA	Solid	8021B	32569
880-18073-7	B-2	Total/NA	Solid	8021B	32569
MB 880-32569/5-A	Method Blank	Total/NA	Solid	8021B	32569
MB 880-32835/5-A	Method Blank	Total/NA	Solid	8021B	32835
LCS 880-32569/1-A	Lab Control Sample	Total/NA	Solid	8021B	32569
LCSD 880-32569/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32569
880-18073-1 MS	A-1	Total/NA	Solid	8021B	32569
880-18073-1 MSD	A-1	Total/NA	Solid	8021B	32569

Prep Batch: 32835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-32835/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 32927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18073-1	A-1	Total/NA	Solid	Total BTEX	
880-18073-2	A-2	Total/NA	Solid	Total BTEX	
880-18073-3	A-3	Total/NA	Solid	Total BTEX	
880-18073-4	A-4	Total/NA	Solid	Total BTEX	
880-18073-5	A-5	Total/NA	Solid	Total BTEX	
880-18073-6	B-1	Total/NA	Solid	Total BTEX	
880-18073-7	B-2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 32121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18073-1	A-1	Total/NA	Solid	8015B NM	32175
880-18073-2	A-2	Total/NA	Solid	8015B NM	32175
880-18073-3	A-3	Total/NA	Solid	8015B NM	32175
880-18073-4	A-4	Total/NA	Solid	8015B NM	32175

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 32121 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-32175/1-A	Method Blank	Total/NA	Solid	8015B NM	32175
LCS 880-32175/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32175
LCSD 880-32175/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32175

Prep Batch: 32175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18073-1	A-1	Total/NA	Solid	8015NM Prep	
880-18073-2	A-2	Total/NA	Solid	8015NM Prep	
880-18073-3	A-3	Total/NA	Solid	8015NM Prep	
880-18073-4	A-4	Total/NA	Solid	8015NM Prep	
MB 880-32175/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32175/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32175/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18073-5	A-5	Total/NA	Solid	8015B NM	32206
880-18073-6	B-1	Total/NA	Solid	8015B NM	32206
880-18073-7	B-2	Total/NA	Solid	8015B NM	32206
MB 880-32206/1-A	Method Blank	Total/NA	Solid	8015B NM	32206
LCS 880-32206/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32206
LCSD 880-32206/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32206
880-18073-5 MS	A-5	Total/NA	Solid	8015B NM	32206
880-18073-5 MSD	A-5	Total/NA	Solid	8015B NM	32206

Prep Batch: 32206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18073-5	A-5	Total/NA	Solid	8015NM Prep	
880-18073-6	B-1	Total/NA	Solid	8015NM Prep	
880-18073-7	B-2	Total/NA	Solid	8015NM Prep	
MB 880-32206/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32206/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32206/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18073-5 MS	A-5	Total/NA	Solid	8015NM Prep	
880-18073-5 MSD	A-5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18073-1	A-1	Total/NA	Solid	8015 NM	
880-18073-2	A-2	Total/NA	Solid	8015 NM	
880-18073-3	A-3	Total/NA	Solid	8015 NM	
880-18073-4	A-4	Total/NA	Solid	8015 NM	
880-18073-5	A-5	Total/NA	Solid	8015 NM	
880-18073-6	B-1	Total/NA	Solid	8015 NM	
880-18073-7	B-2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18073-1	A-1	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

HPLC/IC (Continued)

Leach Batch: 32305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18073-2	A-2	Soluble	Solid	DI Leach	
880-18073-3	A-3	Soluble	Solid	DI Leach	
880-18073-4	A-4	Soluble	Solid	DI Leach	
880-18073-5	A-5	Soluble	Solid	DI Leach	
880-18073-6	B-1	Soluble	Solid	DI Leach	
880-18073-7	B-2	Soluble	Solid	DI Leach	
MB 880-32305/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32305/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32305/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18073-2 MS	A-2	Soluble	Solid	DI Leach	
880-18073-2 MSD	A-2	Soluble	Solid	DI Leach	

Analysis Batch: 32619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18073-1	A-1	Soluble	Solid	300.0	32305
880-18073-2	A-2	Soluble	Solid	300.0	32305
880-18073-3	A-3	Soluble	Solid	300.0	32305
880-18073-4	A-4	Soluble	Solid	300.0	32305
880-18073-5	A-5	Soluble	Solid	300.0	32305
880-18073-6	B-1	Soluble	Solid	300.0	32305
880-18073-7	B-2	Soluble	Solid	300.0	32305
MB 880-32305/1-A	Method Blank	Soluble	Solid	300.0	32305
LCS 880-32305/2-A	Lab Control Sample	Soluble	Solid	300.0	32305
LCSD 880-32305/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32305
880-18073-2 MS	A-2	Soluble	Solid	300.0	32305
880-18073-2 MSD	A-2	Soluble	Solid	300.0	32305

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

Client Sample ID: A-1
Date Collected: 08/12/22 12:00
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	32569	08/24/22 16:09	MR	EET MID
Total/NA	Analysis	8021B		1			32815	08/25/22 03:53	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32927	08/25/22 10:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			32214	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 01:23	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32305	08/17/22 08:52	CH	EET MID
Soluble	Analysis	300.0		5			32619	08/20/22 22:59	CH	EET MID

Client Sample ID: A-2
Date Collected: 08/12/22 12:01
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	32569	08/24/22 16:09	MR	EET MID
Total/NA	Analysis	8021B		1			32815	08/25/22 06:28	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32927	08/25/22 10:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			32214	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 02:03	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32305	08/17/22 08:52	CH	EET MID
Soluble	Analysis	300.0		20			32619	08/20/22 23:08	CH	EET MID

Client Sample ID: A-3
Date Collected: 08/12/22 12:02
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	32569	08/24/22 16:09	MR	EET MID
Total/NA	Analysis	8021B		1			32815	08/25/22 06:54	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32927	08/25/22 10:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			32214	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 03:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	32305	08/17/22 08:52	CH	EET MID
Soluble	Analysis	300.0		1			32619	08/20/22 23:35	CH	EET MID

Client Sample ID: A-4
Date Collected: 08/12/22 12:03
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	32569	08/24/22 16:09	MR	EET MID
Total/NA	Analysis	8021B		1			32815	08/25/22 07:20	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32927	08/25/22 10:15	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

Client Sample ID: A-4
Date Collected: 08/12/22 12:03
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-4
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			32214	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 02:24	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32305	08/17/22 08:52	CH	EET MID
Soluble	Analysis	300.0		1			32619	08/20/22 23:45	CH	EET MID

Client Sample ID: A-5
Date Collected: 08/12/22 12:04
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	32569	08/24/22 16:09	MR	EET MID
Total/NA	Analysis	8021B		1			32815	08/25/22 07:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32927	08/25/22 10:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			32214	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32206	08/16/22 09:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32197	08/16/22 11:25	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32305	08/17/22 08:52	CH	EET MID
Soluble	Analysis	300.0		1			32619	08/21/22 00:12	CH	EET MID

Client Sample ID: B-1
Date Collected: 08/12/22 12:08
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	32569	08/24/22 16:09	MR	EET MID
Total/NA	Analysis	8021B		1			32815	08/25/22 09:29	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32927	08/25/22 10:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			32214	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32206	08/16/22 09:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32197	08/16/22 12:30	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32305	08/17/22 08:52	CH	EET MID
Soluble	Analysis	300.0		1			32619	08/21/22 00:22	CH	EET MID

Client Sample ID: B-2
Date Collected: 08/12/22 12:09
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	32569	08/24/22 16:09	MR	EET MID
Total/NA	Analysis	8021B		1			32815	08/25/22 09:54	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32927	08/25/22 10:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			32214	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32206	08/16/22 09:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32197	08/16/22 12:51	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

Client Sample ID: B-2
Date Collected: 08/12/22 12:09
Date Received: 08/15/22 09:15

Lab Sample ID: 880-18073-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	32305	08/17/22 08:52	CH	EET MID
Soluble	Analysis	300.0		10			32619	08/21/22 00:31	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-18073-1
Project/Site: Limestone 1H SDG: 21-0100-24

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	T104704400-22-24	06-30-23

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. Job ID: 880-18073-1
Project/Site: Limestone 1H SDG: 21-0100-24

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18073-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18073-1	A-1	Solid	08/12/22 12:00	08/15/22 09:15
880-18073-2	A-2	Solid	08/12/22 12:01	08/15/22 09:15
880-18073-3	A-3	Solid	08/12/22 12:02	08/15/22 09:15
880-18073-4	A-4	Solid	08/12/22 12:03	08/15/22 09:15
880-18073-5	A-5	Solid	08/12/22 12:04	08/15/22 09:15
880-18073-6	B-1	Solid	08/12/22 12:08	08/15/22 09:15
880-18073-7	B-2	Solid	08/12/22 12:09	08/15/22 09:15

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No. 2665

18073 CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 8/15/2022 PAGE 1 OF 1

PO#: LAB WORK ORDER#

PROJECT LOCATION OR NAME. Limestone 1H

LAI PROJECT # 21-0100-24 COLLECTOR: DSH/PM

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MNT/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	8081 PESTICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP - PEST ☐	TOTAL METALS (RCRA) ☐	LEAD - TOTAL ☐	RCI ☐	TDS ☐	pH ☐	EXPLOSIVES ☐	CHLORIDE ☒	FIELD NOTES
A-1		8/12/22	1200	S					X		X		X	X	X												X	
A-2		8/12/22	1201	S					X		X		X	X	X												X	
A-3		8/12/22	1202	S					X		X		X	X	X												X	
A 4		8/12/22	1203	S					X		X		X	X	X												X	
A-5		8/12/22	1204	S					X		X		X	X	X												X	
B-1		8/12/22	1208	S					X		X		X	X	X												X	
B-2		8/12/22	1209	S					X		X		X	X	X												X	

TOTAL 7

RELINQUISHED BY (Signature) Samuel Young DATE/TIME 8/15/2022 9:15 RECEIVED BY (Signature)

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

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

LABORATORY Xenco

880-18073 Chain of Custody

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

LABORATORY USE ONLY:
RECEIVING TEMP 3.5 THERM# IR8.20
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

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8/25/2022

Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-18073-1
SDG Number: 21-0100-24

Login Number: 18073
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	

eurofins | Environment Testing America

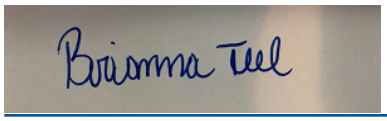
ANALYTICAL REPORT

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

Laboratory Job ID: 880-18556-1
Laboratory Sample Delivery Group: 21-0100-24
Client Project/Site: Limestone 1H

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

Attn: Mr. Mark J Larson



Authorized for release by:
9/8/2022 2:36:52 PM
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LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

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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: Limestone 1H

Laboratory Job ID: 880-18556-1
SDG: 21-0100-24

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery 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
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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.
¤	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. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Job ID: 880-18556-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-18556-1

Receipt
The samples were received on 8/26/2022 8:54 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 0.8°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33856 and analytical batch 880-33801 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 laboratory control sample (LCS) associated with preparation batch 880-33854 and analytical batch 880-33928 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-33928/2), (LCS 880-33854/1-A) and (LCSD 880-33854/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-21 4.1' (880-18556-21), C-22 4.1' (880-18556-22), C-23 4.1' (880-18556-23), C-24 4.1' (880-18556-24), (MB 880-33854/5-A), (890-2853-A-10-E), (890-2853-A-10-C MS) and (890-2853-A-10-D MSD). 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-25 4.1' (880-18556-25) and C-26 4.1' (880-18556-26). 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-28 0-4.1' (880-18556-28), C-29 0-4.1' (880-18556-29), C-30 0-4.1' (880-18556-30), C-31 0-4.1' (880-18556-31) and C-32 0-4.1' (880-18556-32). 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: Surrogate recovery for the following samples were outside control limits: (LCS 880-33157/2-A) and (LCSD 880-33157/3-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 880-33157 and analytical batch 880-33143 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: (LCS 880-33155/2-A) and (LCSD 880-33155/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-7 4.1' (880-18556-7), C-8 4.1' (880-18556-8) and C-9 4.1' (880-18556-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: C-12 4.1' (880-18556-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33369/2-A) and (LCSD 880-33369/3-A). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Job ID: 880-18556-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: The method blank for preparation batch 880-33369 and analytical batch 880-33405 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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 for preparation batch 880-33082 and 880-33082 and analytical batch 880-33546 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.The associated samples are: C-4 1.5' (880-18556-4), C-5 0-1.5' (880-18556-5), C-6 4.1' (880-18556-6), C-7 4.1' (880-18556-7), C-8 4.1' (880-18556-8), C-9 4.1' (880-18556-9), C-10 4.1' (880-18556-10), C-11 4.1' (880-18556-11), C-12 4.1' (880-18556-12) and C-13 4.1' (880-18556-13).

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: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-1 1.5'

Lab Sample ID: 880-18556-1
Matrix: Solid
Date Collected: 08/25/22 10:20
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 00:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 00:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 00:49	1
m,p-Xylenes	<0.00402	U F1	0.00402		mg/Kg		09/06/22 13:49	09/07/22 00:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 00:49	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		09/06/22 13:49	09/07/22 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/06/22 13:49*	*09/07/22 00:49*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/06/22 13:49*	*09/07/22 00:49*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 11:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 11:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*08/29/22 08:33*	*08/29/22 11:53*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*08/29/22 08:33*	*08/29/22 11:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**447**		4.96		mg/Kg			09/02/22 06:14	1

Client Sample ID: C-2 1.5'

Lab Sample ID: 880-18556-2
Matrix: Solid
Date Collected: 08/25/22 10:21
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 01:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 01:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 01:10	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		09/06/22 13:49	09/07/22 01:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 01:10	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/06/22 13:49	09/07/22 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*09/06/22 13:49*	*09/07/22 01:10*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/06/22 13:49*	*09/07/22 01:10*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-2 1.5' Lab Sample ID: 880-18556-2
Date Collected: 08/25/22 10:21 **Matrix: Solid**
Date Received: 08/26/22 08:54

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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 12:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 12:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*08/29/22 08:33*	*08/29/22 12:58*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*08/29/22 08:33*	*08/29/22 12:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.7**		4.95		mg/Kg			09/02/22 06:23	1

Client Sample ID: C-2 1.5' Lab Sample ID: 880-18556-3
Date Collected: 08/25/22 10:22 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 01:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 01:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 01:30	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/06/22 13:49	09/07/22 01:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 01:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/06/22 13:49	09/07/22 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/06/22 13:49*	*09/07/22 01:30*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/06/22 13:49*	*09/07/22 01:30*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 13:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 13:19	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-2 1.5' Lab Sample ID: 880-18556-3

Date Collected: 08/25/22 10:22 **Matrix: Solid**
Date Received: 08/26/22 08:54

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		08/29/22 08:33	08/29/22 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*08/29/22 08:33*	*08/29/22 13:19*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*08/29/22 08:33*	*08/29/22 13:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**333**		5.04		mg/Kg			09/02/22 06:32	1

Client Sample ID: C-4 1.5' Lab Sample ID: 880-18556-4

Date Collected: 08/25/22 10:23 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 01:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 01:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 01:51	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/06/22 13:49	09/07/22 01:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 01:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/06/22 13:49	09/07/22 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/06/22 13:49*	*09/07/22 01:51*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/06/22 13:49*	*09/07/22 01:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 13:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 13:41	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*126*		*70 - 130*	*08/29/22 08:33*	*08/29/22 13:41*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*08/29/22 08:33*	*08/29/22 13:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.7**	**F1**	5.00		mg/Kg			09/03/22 01:34	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-5 0-1.5'
Lab Sample ID: 880-18556-5
Date Collected: 08/25/22 10:24 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 02:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 02:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 02:11	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/06/22 13:49	09/07/22 02:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 02:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/06/22 13:49	09/07/22 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*09/06/22 13:49*	*09/07/22 02:11*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/06/22 13:49*	*09/07/22 02:11*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 14:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 14:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*08/29/22 08:33*	*08/29/22 14:03*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*08/29/22 08:33*	*08/29/22 14:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**123**		4.98		mg/Kg			09/03/22 01:55	1

Client Sample ID: C-6 4.1'
Lab Sample ID: 880-18556-6
Date Collected: 08/25/22 11:30 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 02:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 02:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 02:31	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/06/22 13:49	09/07/22 02:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 02:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/06/22 13:49	09/07/22 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/06/22 13:49*	*09/07/22 02:31*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/06/22 13:49*	*09/07/22 02:31*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-6 4.1' Lab Sample ID: 880-18556-6

Date Collected: 08/25/22 11:30 **Matrix: Solid**
Date Received: 08/26/22 08:54

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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 14:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 14:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*08/29/22 08:33*	*08/29/22 14:25*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*08/29/22 08:33*	*08/29/22 14:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**368**		5.00		mg/Kg			09/03/22 02:02	1

Client Sample ID: C-7 4.1' Lab Sample ID: 880-18556-7

Date Collected: 08/25/22 11:35 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 02:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 02:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 02:52	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/06/22 13:49	09/07/22 02:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 02:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/06/22 13:49	09/07/22 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*09/06/22 13:49*	*09/07/22 02:52*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/06/22 13:49*	*09/07/22 02:52*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 14:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 14:46	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-7 4.1'
Lab Sample ID: 880-18556-7
Date Collected: 08/25/22 11:35 **Matrix: Solid**
Date Received: 08/26/22 08:54

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		08/29/22 08:33	08/29/22 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*135*	*S1+*	*70 - 130*	*08/29/22 08:33*	*08/29/22 14:46*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*08/29/22 08:33*	*08/29/22 14:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**512**		4.99		mg/Kg			09/03/22 02:09	1

Client Sample ID: C-8 4.1'
Lab Sample ID: 880-18556-8
Date Collected: 08/25/22 11:38 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:49	09/07/22 03:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:49	09/07/22 03:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:49	09/07/22 03:12	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/06/22 13:49	09/07/22 03:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:49	09/07/22 03:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/06/22 13:49	09/07/22 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*09/06/22 13:49*	*09/07/22 03:12*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/06/22 13:49*	*09/07/22 03:12*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 15:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*	*08/29/22 08:33*	*08/29/22 15:08*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*08/29/22 08:33*	*08/29/22 15:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**827**		4.95		mg/Kg			09/03/22 02:17	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-9 4.1'

Lab Sample ID: 880-18556-9
Matrix: Solid
Date Collected: 08/25/22 11:40
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:49	09/07/22 03:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:49	09/07/22 03:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:49	09/07/22 03:33	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/06/22 13:49	09/07/22 03:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:49	09/07/22 03:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/06/22 13:49	09/07/22 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/06/22 13:49*	*09/07/22 03:33*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/06/22 13:49*	*09/07/22 03:33*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 15:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 15:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*140*	*S1+*	*70 - 130*	*08/29/22 08:33*	*08/29/22 15:30*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*08/29/22 08:33*	*08/29/22 15:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1080**		4.97		mg/Kg			09/03/22 02:38	1

Client Sample ID: C-10 4.1'

Lab Sample ID: 880-18556-10
Matrix: Solid
Date Collected: 08/25/22 11:44
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/06/22 13:49	09/07/22 03:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/06/22 13:49	09/07/22 03:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/06/22 13:49	09/07/22 03:53	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		09/06/22 13:49	09/07/22 03:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/06/22 13:49	09/07/22 03:53	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/06/22 13:49	09/07/22 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*09/06/22 13:49*	*09/07/22 03:53*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/06/22 13:49*	*09/07/22 03:53*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-10 4.1'
Lab Sample ID: 880-18556-10
Date Collected: 08/25/22 11:44 **Matrix: Solid**
Date Received: 08/26/22 08:54

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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 15:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 15:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*08/29/22 08:33*	*08/29/22 15:52*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*08/29/22 08:33*	*08/29/22 15:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1120**		4.95		mg/Kg			09/03/22 02:45	1

Client Sample ID: C-11 4.1'
Lab Sample ID: 880-18556-11
Date Collected: 08/25/22 11:46 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 05:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 05:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 05:43	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/06/22 13:49	09/07/22 05:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 05:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/06/22 13:49	09/07/22 05:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*09/06/22 13:49*	*09/07/22 05:43*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/06/22 13:49*	*09/07/22 05:43*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 16:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 16:43	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-11 4.1'
Lab Sample ID: 880-18556-11
Date Collected: 08/25/22 11:46 **Matrix: Solid**
Date Received: 08/26/22 08:54

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		08/29/22 08:33	08/29/22 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*08/29/22 08:33*	*08/29/22 16:43*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*08/29/22 08:33*	*08/29/22 16:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**903**		5.05		mg/Kg			09/03/22 02:52	1

Client Sample ID: C-12 4.1'
Lab Sample ID: 880-18556-12
Date Collected: 08/25/22 11:48 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 06:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 06:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 06:03	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		09/06/22 13:49	09/07/22 06:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 06:03	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/06/22 13:49	09/07/22 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/06/22 13:49*	*09/07/22 06:03*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/06/22 13:49*	*09/07/22 06:03*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 17:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/29/22 08:33	08/29/22 17:05	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/22 08:33	08/29/22 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*131*	*S1+*	*70 - 130*	*08/29/22 08:33*	*08/29/22 17:05*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*08/29/22 08:33*	*08/29/22 17:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**722**		4.95		mg/Kg			09/03/22 03:00	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-13 4.1'

Lab Sample ID: 880-18556-13
Matrix: Solid
Date Collected: 08/25/22 11:50
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 06:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 06:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 06:24	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		09/06/22 13:49	09/07/22 06:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 06:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/06/22 13:49	09/07/22 06:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/06/22 13:49*	*09/07/22 06:24*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/06/22 13:49*	*09/07/22 06:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 17:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 17:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*08/29/22 08:33*	*08/29/22 17:27*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*08/29/22 08:33*	*08/29/22 17:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1660**		24.8		mg/Kg			09/03/22 10:19	5

Client Sample ID: C-14 4.1'

Lab Sample ID: 880-18556-14
Matrix: Solid
Date Collected: 08/25/22 11:52
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 06:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 06:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 06:44	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/06/22 13:49	09/07/22 06:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 06:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/06/22 13:49	09/07/22 06:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/06/22 13:49*	*09/07/22 06:44*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/06/22 13:49*	*09/07/22 06:44*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-14 4.1'
Lab Sample ID: 880-18556-14
Date Collected: 08/25/22 11:52 **Matrix: Solid**
Date Received: 08/26/22 08:54

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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 17:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 17:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*08/29/22 08:33*	*08/29/22 17:49*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*08/29/22 08:33*	*08/29/22 17:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1480**		24.9		mg/Kg			09/03/22 03:08	5

Client Sample ID: C-15 4.1'
Lab Sample ID: 880-18556-15
Date Collected: 08/25/22 11:55 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/06/22 13:49	09/07/22 07:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/06/22 13:49	09/07/22 07:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/06/22 13:49	09/07/22 07:05	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		09/06/22 13:49	09/07/22 07:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/06/22 13:49	09/07/22 07:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/06/22 13:49	09/07/22 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*09/06/22 13:49*	*09/07/22 07:05*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/06/22 13:49*	*09/07/22 07:05*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 18:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/29/22 08:33	08/29/22 18:10	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-15 4.1'
Lab Sample ID: 880-18556-15
Date Collected: 08/25/22 11:55 **Matrix: Solid**
Date Received: 08/26/22 08:54

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)	<49.8	U	49.8		mg/Kg		08/29/22 08:33	08/29/22 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*08/29/22 08:33*	*08/29/22 18:10*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*08/29/22 08:33*	*08/29/22 18:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1070**		25.0		mg/Kg			09/03/22 03:29	5

Client Sample ID: C-16 4.1'
Lab Sample ID: 880-18556-16
Date Collected: 08/25/22 11:58 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 07:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 07:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 07:25	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/06/22 13:49	09/07/22 07:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 07:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/06/22 13:49	09/07/22 07:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/06/22 13:49*	*09/07/22 07:25*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/06/22 13:49*	*09/07/22 07:25*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 18:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 18:32	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*08/29/22 08:33*	*08/29/22 18:32*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*08/29/22 08:33*	*08/29/22 18:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**445**		4.98		mg/Kg			09/03/22 03:36	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-17 4.1'

Lab Sample ID: 880-18556-17
Matrix: Solid
Date Collected: 08/25/22 12:01
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 07:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 07:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 07:45	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/06/22 13:49	09/07/22 07:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/06/22 13:49	09/07/22 07:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/06/22 13:49	09/07/22 07:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/06/22 13:49*	*09/07/22 07:45*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/06/22 13:49*	*09/07/22 07:45*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 18:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 18:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*08/29/22 08:33*	*08/29/22 18:54*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*08/29/22 08:33*	*08/29/22 18:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**341**		5.00		mg/Kg			09/03/22 03:58	1

Client Sample ID: C-18 4.1'

Lab Sample ID: 880-18556-18
Matrix: Solid
Date Collected: 08/25/22 12:04
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 08:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 08:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 08:06	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/06/22 13:49	09/07/22 08:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/06/22 13:49	09/07/22 08:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/06/22 13:49	09/07/22 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/06/22 13:49*	*09/07/22 08:06*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/06/22 13:49*	*09/07/22 08:06*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-18 4.1' Lab Sample ID: 880-18556-18

Date Collected: 08/25/22 12:04 **Matrix: Solid**
Date Received: 08/26/22 08:54

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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 19:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 19:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*125*		*70 - 130*	*08/29/22 08:33*	*08/29/22 19:16*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*08/29/22 08:33*	*08/29/22 19:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**903**		4.99		mg/Kg			09/03/22 04:05	1

Client Sample ID: C-19 4.1' Lab Sample ID: 880-18556-19

Date Collected: 08/25/22 12:08 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 08:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 08:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 08:51	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		09/06/22 13:49	09/07/22 08:51	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/06/22 13:49	09/07/22 08:51	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/06/22 13:49	09/07/22 08:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/06/22 13:49*	*09/07/22 08:51*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/06/22 13:49*	*09/07/22 08:51*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 19:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/29/22 08:33	08/29/22 19:37	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-19 4.1'
Lab Sample ID: 880-18556-19
Date Collected: 08/25/22 12:08 **Matrix: Solid**
Date Received: 08/26/22 08:54

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)	<49.8	U	49.8		mg/Kg		08/29/22 08:33	08/29/22 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*08/29/22 08:33*	*08/29/22 19:37*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*08/29/22 08:33*	*08/29/22 19:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**793**		5.04		mg/Kg			09/03/22 04:12	1

Client Sample ID: C-20 4.1'
Lab Sample ID: 880-18556-20
Date Collected: 08/25/22 12:11 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/06/22 13:49	09/07/22 09:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/06/22 13:49	09/07/22 09:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/06/22 13:49	09/07/22 09:12	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		09/06/22 13:49	09/07/22 09:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/06/22 13:49	09/07/22 09:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/06/22 13:49	09/07/22 09:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/06/22 13:49*	*09/07/22 09:12*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/06/22 13:49*	*09/07/22 09:12*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:33	08/29/22 19:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 19:59	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/22 08:33	08/29/22 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*125*		*70 - 130*	*08/29/22 08:33*	*08/29/22 19:59*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*08/29/22 08:33*	*08/29/22 19:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1020**		4.97		mg/Kg			09/03/22 04:19	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-21 4.1'

Date Collected: 08/25/22 12:14
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-21

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 17:38	1
Toluene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 17:38	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 17:38	1
m,p-Xylenes	<0.00397	U *+	0.00397		mg/Kg		09/06/22 13:45	09/07/22 17:38	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 17:38	1
Xylenes, Total	<0.00397	U *+	0.00397		mg/Kg		09/06/22 13:45	09/07/22 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*190*	*S1+*	*70 - 130*	*09/06/22 13:45*	*09/07/22 17:38*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*09/06/22 13:45*	*09/07/22 17:38*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:34	08/29/22 17:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:34	08/29/22 17:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 08:34	08/29/22 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*08/29/22 08:34*	*08/29/22 17:49*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*08/29/22 08:34*	*08/29/22 17:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1420**		24.8		mg/Kg			09/03/22 04:27	5

Client Sample ID: C-22 4.1'

Date Collected: 08/25/22 12:18
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-22

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		09/06/22 13:45	09/07/22 18:03	1
Toluene	<0.00201	U *+	0.00201		mg/Kg		09/06/22 13:45	09/07/22 18:03	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		09/06/22 13:45	09/07/22 18:03	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		09/06/22 13:45	09/07/22 18:03	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		09/06/22 13:45	09/07/22 18:03	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		09/06/22 13:45	09/07/22 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*174*	*S1+*	*70 - 130*	*09/06/22 13:45*	*09/07/22 18:03*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/06/22 13:45*	*09/07/22 18:03*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-22 4.1' Lab Sample ID: 880-18556-22

Date Collected: 08/25/22 12:18 **Matrix: Solid**
Date Received: 08/26/22 08:54

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			09/07/22 10:43	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			08/30/22 09:24	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 *1	49.8		mg/Kg		08/29/22 08:34	08/29/22 18:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/29/22 08:34	08/29/22 18:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/22 08:34	08/29/22 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*08/29/22 08:34*	*08/29/22 18:10*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*08/29/22 08:34*	*08/29/22 18:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1320**		24.8		mg/Kg			09/03/22 04:34	5

Client Sample ID: C-23 4.1' Lab Sample ID: 880-18556-23

Date Collected: 08/25/22 12:22 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		09/06/22 13:45	09/07/22 18:29	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		09/06/22 13:45	09/07/22 18:29	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/06/22 13:45	09/07/22 18:29	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/06/22 13:45	09/07/22 18:29	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/06/22 13:45	09/07/22 18:29	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/06/22 13:45	09/07/22 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*183*	*S1+*	*70 - 130*	*09/06/22 13:45*	*09/07/22 18:29*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/06/22 13:45*	*09/07/22 18:29*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:34	08/29/22 18:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:34	08/29/22 18:32	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-23 4.1'
Lab Sample ID: 880-18556-23
Date Collected: 08/25/22 12:22 **Matrix: Solid**
Date Received: 08/26/22 08:54

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		08/29/22 08:34	08/29/22 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*74*		*70 - 130*	*08/29/22 08:34*	*08/29/22 18:32*	*1*
o-Terphenyl (Surr)	*75*		*70 - 130*	*08/29/22 08:34*	*08/29/22 18:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**815**		5.04		mg/Kg			09/03/22 04:41	1

Client Sample ID: C-24 4.1'
Lab Sample ID: 880-18556-24
Date Collected: 08/25/22 12:30 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		09/06/22 13:45	09/07/22 18:55	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		09/06/22 13:45	09/07/22 18:55	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/06/22 13:45	09/07/22 18:55	1
m,p-Xylenes	<0.00400	U *+	0.00400		mg/Kg		09/06/22 13:45	09/07/22 18:55	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/06/22 13:45	09/07/22 18:55	1
Xylenes, Total	<0.00400	U *+	0.00400		mg/Kg		09/06/22 13:45	09/07/22 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*185*	*S1+*	*70 - 130*	*09/06/22 13:45*	*09/07/22 18:55*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/06/22 13:45*	*09/07/22 18:55*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:34	08/29/22 18:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:34	08/29/22 18:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 08:34	08/29/22 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*74*		*70 - 130*	*08/29/22 08:34*	*08/29/22 18:54*	*1*
o-Terphenyl (Surr)	*77*		*70 - 130*	*08/29/22 08:34*	*08/29/22 18:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1470**		24.9		mg/Kg			09/03/22 18:18	5

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-25 4.1'
Lab Sample ID: 880-18556-25
Date Collected: 08/25/22 12:34 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 20:40	1
Toluene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 20:40	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 20:40	1
m,p-Xylenes	<0.00396	U *+	0.00396		mg/Kg		09/06/22 13:45	09/07/22 20:40	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 20:40	1
Xylenes, Total	<0.00396	U *+	0.00396		mg/Kg		09/06/22 13:45	09/07/22 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*213*	*S1+*	*70 - 130*	*09/06/22 13:45*	*09/07/22 20:40*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*09/06/22 13:45*	*09/07/22 20:40*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/29/22 08:34	08/29/22 19:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:34	08/29/22 19:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 08:34	08/29/22 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*08/29/22 08:34*	*08/29/22 19:16*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*08/29/22 08:34*	*08/29/22 19:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**682**		4.95		mg/Kg			09/03/22 18:45	1

Client Sample ID: C-26 4.1'
Lab Sample ID: 880-18556-26
Date Collected: 08/25/22 12:40 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		09/06/22 13:45	09/07/22 21:06	1
Toluene	<0.00201	U *+	0.00201		mg/Kg		09/06/22 13:45	09/07/22 21:06	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		09/06/22 13:45	09/07/22 21:06	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		09/06/22 13:45	09/07/22 21:06	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		09/06/22 13:45	09/07/22 21:06	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		09/06/22 13:45	09/07/22 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*210*	*S1+*	*70 - 130*	*09/06/22 13:45*	*09/07/22 21:06*	*1*
1,4-Difluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*09/06/22 13:45*	*09/07/22 21:06*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-26 4.1'
Lab Sample ID: 880-18556-26
Date Collected: 08/25/22 12:40 **Matrix: Solid**
Date Received: 08/26/22 08:54

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			09/07/22 10:43	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			08/30/22 09:24	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 *1	49.8		mg/Kg		08/29/22 08:34	08/29/22 19:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/29/22 08:34	08/29/22 19:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/22 08:34	08/29/22 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*08/29/22 08:34*	*08/29/22 19:37*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*08/29/22 08:34*	*08/29/22 19:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**320**		5.03		mg/Kg			09/03/22 18:54	1

Client Sample ID: C-27 0-4.1'
Lab Sample ID: 880-18556-27
Date Collected: 08/25/22 14:29 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		09/06/22 13:45	09/07/22 21:32	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		09/06/22 13:45	09/07/22 21:32	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/06/22 13:45	09/07/22 21:32	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		09/06/22 13:45	09/07/22 21:32	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/06/22 13:45	09/07/22 21:32	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		09/06/22 13:45	09/07/22 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*09/06/22 13:45*	*09/07/22 21:32*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*09/06/22 13:45*	*09/07/22 21:32*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/30/22 13:28	08/31/22 13:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 13:28	08/31/22 13:19	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-27 0-4.1' Lab Sample ID: 880-18556-27

Date Collected: 08/25/22 14:29 **Matrix: Solid**
Date Received: 08/26/22 08:54

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		08/30/22 13:28	08/31/22 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*08/30/22 13:28*	*08/31/22 13:19*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*08/30/22 13:28*	*08/31/22 13:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**708**		5.05		mg/Kg			09/03/22 19:04	1

Client Sample ID: C-28 0-4.1' Lab Sample ID: 880-18556-28

Date Collected: 08/25/22 14:31 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 21:58	1
Toluene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 21:58	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 21:58	1
m,p-Xylenes	<0.00397	U *+	0.00397		mg/Kg		09/06/22 13:45	09/07/22 21:58	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 21:58	1
Xylenes, Total	<0.00397	U *+	0.00397		mg/Kg		09/06/22 13:45	09/07/22 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*197*	*S1+*	*70 - 130*	*09/06/22 13:45*	*09/07/22 21:58*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*09/06/22 13:45*	*09/07/22 21:58*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/30/22 13:28	08/31/22 13:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 13:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*08/30/22 13:28*	*08/31/22 13:41*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*08/30/22 13:28*	*08/31/22 13:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**328**		5.05		mg/Kg			09/03/22 19:13	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-29 0-4.1' Lab Sample ID: 880-18556-29

Date Collected: 08/25/22 14:38 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		09/06/22 13:45	09/07/22 22:25	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		09/06/22 13:45	09/07/22 22:25	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/06/22 13:45	09/07/22 22:25	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/06/22 13:45	09/07/22 22:25	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/06/22 13:45	09/07/22 22:25	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/06/22 13:45	09/07/22 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*203*	*S1+*	*70 - 130*	*09/06/22 13:45*	*09/07/22 22:25*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/06/22 13:45*	*09/07/22 22:25*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/30/22 13:28	08/31/22 14:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 14:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*08/30/22 13:28*	*08/31/22 14:02*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*08/30/22 13:28*	*08/31/22 14:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1090**		4.99		mg/Kg			09/03/22 19:41	1

Client Sample ID: C-30 0-4.1' Lab Sample ID: 880-18556-30

Date Collected: 08/25/22 14:45 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 22:51	1
Toluene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 22:51	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 22:51	1
m,p-Xylenes	<0.00397	U *+	0.00397		mg/Kg		09/06/22 13:45	09/07/22 22:51	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		09/06/22 13:45	09/07/22 22:51	1
Xylenes, Total	<0.00397	U *+	0.00397		mg/Kg		09/06/22 13:45	09/07/22 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*199*	*S1+*	*70 - 130*	*09/06/22 13:45*	*09/07/22 22:51*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/06/22 13:45*	*09/07/22 22:51*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-30 0-4.1' Lab Sample ID: 880-18556-30

Date Collected: 08/25/22 14:45 **Matrix: Solid**
Date Received: 08/26/22 08:54

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			09/07/22 10:43	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			08/30/22 09:24	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		08/30/22 13:28	08/31/22 14:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/30/22 13:28	08/31/22 14:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/30/22 13:28	08/31/22 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*08/30/22 13:28*	*08/31/22 14:24*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*08/30/22 13:28*	*08/31/22 14:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**895**		4.99		mg/Kg			09/03/22 19:50	1

Client Sample ID: C-31 0-4.1' Lab Sample ID: 880-18556-31

Date Collected: 08/25/22 15:05 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		09/06/22 13:45	09/07/22 23:17	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		09/06/22 13:45	09/07/22 23:17	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/06/22 13:45	09/07/22 23:17	1
m,p-Xylenes	<0.00400	U *+	0.00400		mg/Kg		09/06/22 13:45	09/07/22 23:17	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/06/22 13:45	09/07/22 23:17	1
Xylenes, Total	<0.00400	U *+	0.00400		mg/Kg		09/06/22 13:45	09/07/22 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*214*	*S1+*	*70 - 130*	*09/06/22 13:45*	*09/07/22 23:17*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/06/22 13:45*	*09/07/22 23:17*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/30/22 13:28	08/31/22 14:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 14:46	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-31 0-4.1' Lab Sample ID: 880-18556-31

Date Collected: 08/25/22 15:05 **Matrix: Solid**
Date Received: 08/26/22 08:54

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		08/30/22 13:28	08/31/22 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*08/30/22 13:28*	*08/31/22 14:46*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*08/30/22 13:28*	*08/31/22 14:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**627**		5.02		mg/Kg			09/03/22 19:59	1

Client Sample ID: C-32 0-4.1' Lab Sample ID: 880-18556-32

Date Collected: 08/25/22 15:11 **Matrix: Solid**
Date Received: 08/26/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202		mg/Kg		09/06/22 13:45	09/07/22 23:43	1
Toluene	<0.00202	U *+	0.00202		mg/Kg		09/06/22 13:45	09/07/22 23:43	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		09/06/22 13:45	09/07/22 23:43	1
m,p-Xylenes	<0.00403	U *+	0.00403		mg/Kg		09/06/22 13:45	09/07/22 23:43	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		09/06/22 13:45	09/07/22 23:43	1
Xylenes, Total	<0.00403	U *+	0.00403		mg/Kg		09/06/22 13:45	09/07/22 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*164*	*S1+*	*70 - 130*	*09/06/22 13:45*	*09/07/22 23:43*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*09/06/22 13:45*	*09/07/22 23:43*	*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			09/07/22 10:43	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			08/30/22 09:24	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		08/30/22 13:28	08/31/22 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 15:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*08/30/22 13:28*	*08/31/22 15:08*	*1*
o-Terphenyl (Surr)	*73*		*70 - 130*	*08/30/22 13:28*	*08/31/22 15:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**416**		4.97		mg/Kg			09/03/22 20:09	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-18556-1	C-1 1.5'	90	107
880-18556-1 MS	C-1 1.5'	87	103
880-18556-1 MSD	C-1 1.5'	86	104
880-18556-2	C-2 1.5'	84	103
880-18556-3	C-2 1.5'	87	105
880-18556-4	C-4 1.5'	88	99
880-18556-5	C-5 0-1.5'	86	102
880-18556-6	C-6 4.1'	88	104
880-18556-7	C-7 4.1'	86	101
880-18556-8	C-8 4.1'	84	105
880-18556-9	C-9 4.1'	89	101
880-18556-10	C-10 4.1'	93	106
880-18556-11	C-11 4.1'	91	104
880-18556-12	C-12 4.1'	89	105
880-18556-13	C-13 4.1'	88	98
880-18556-14	C-14 4.1'	90	101
880-18556-15	C-15 4.1'	92	100
880-18556-16	C-16 4.1'	90	102
880-18556-17	C-17 4.1'	87	102
880-18556-18	C-18 4.1'	90	106
880-18556-19	C-19 4.1'	88	103
880-18556-20	C-20 4.1'	89	100
880-18556-21	C-21 4.1'	190 S1+	97
880-18556-22	C-22 4.1'	174 S1+	101
880-18556-23	C-23 4.1'	183 S1+	100
880-18556-24	C-24 4.1'	185 S1+	106
880-18556-25	C-25 4.1'	213 S1+	83
880-18556-26	C-26 4.1'	210 S1+	132 S1+
880-18556-27	C-27 0-4.1'	130	114
880-18556-28	C-28 0-4.1'	197 S1+	115
880-18556-29	C-29 0-4.1'	203 S1+	112
880-18556-30	C-30 0-4.1'	199 S1+	117
880-18556-31	C-31 0-4.1'	214 S1+	106
880-18556-32	C-32 0-4.1'	164 S1+	121
LCS 880-33854/1-A	Lab Control Sample	184 S1+	113
LCS 880-33856/1-A	Lab Control Sample	85	101
LCSD 880-33854/2-A	Lab Control Sample Dup	198 S1+	109
LCSD 880-33856/2-A	Lab Control Sample Dup	84	101
MB 880-33802/5-A	Method Blank	77	119
MB 880-33854/5-A	Method Blank	139 S1+	74
MB 880-33856/5-A	Method Blank	80	115

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
880-18556-1	C-1 1.5'	104	96								
880-18556-1 MS	C-1 1.5'	108	84								
880-18556-1 MSD	C-1 1.5'	109	83								
880-18556-2	C-2 1.5'	109	100								
880-18556-3	C-2 1.5'	114	106								
880-18556-4	C-4 1.5'	126	111								
880-18556-5	C-5 0-1.5'	107	95								
880-18556-6	C-6 4.1'	109	95								
880-18556-7	C-7 4.1'	135 S1+	115								
880-18556-8	C-8 4.1'	133 S1+	118								
880-18556-9	C-9 4.1'	140 S1+	124								
880-18556-10	C-10 4.1'	114	106								
880-18556-11	C-11 4.1'	111	101								
880-18556-12	C-12 4.1'	131 S1+	118								
880-18556-13	C-13 4.1'	106	100								
880-18556-14	C-14 4.1'	105	98								
880-18556-15	C-15 4.1'	104	98								
880-18556-16	C-16 4.1'	122	110								
880-18556-17	C-17 4.1'	113	105								
880-18556-18	C-18 4.1'	125	113								
880-18556-19	C-19 4.1'	118	109								
880-18556-20	C-20 4.1'	125	112								
880-18556-21	C-21 4.1'	89	91								
880-18556-22	C-22 4.1'	81	82								
880-18556-23	C-23 4.1'	74	75								
880-18556-24	C-24 4.1'	74	77								
880-18556-25	C-25 4.1'	90	85								
880-18556-26	C-26 4.1'	104	109								
880-18556-27	C-27 0-4.1'	89	83								
880-18556-28	C-28 0-4.1'	87	86								
880-18556-29	C-29 0-4.1'	98	92								
880-18556-30	C-30 0-4.1'	86	82								
880-18556-31	C-31 0-4.1'	89	82								
880-18556-32	C-32 0-4.1'	83	73								
LCS 880-33155/2-A	Lab Control Sample	182 S1+	153 S1+								
LCS 880-33157/2-A	Lab Control Sample	178 S1+	177 S1+								
LCS 880-33369/2-A	Lab Control Sample	146 S1+	150 S1+								
LCSD 880-33155/3-A	Lab Control Sample Dup	175 S1+	149 S1+								
LCSD 880-33157/3-A	Lab Control Sample Dup	189 S1+	185 S1+								
LCSD 880-33369/3-A	Lab Control Sample Dup	142 S1+	146 S1+								
MB 880-33155/1-A	Method Blank	107	102								
MB 880-33157/1-A	Method Blank	97	108								
MB 880-33369/1-A	Method Blank	112	115								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33802/5-A
Matrix: Solid
Analysis Batch: 33801

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33802

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/06/22 09:12	09/06/22 12:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/06/22 09:12	09/06/22 12:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/06/22 09:12	09/06/22 12:45	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/06/22 09:12	09/06/22 12:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/06/22 09:12	09/06/22 12:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/06/22 09:12	09/06/22 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*09/06/22 09:12*	*09/06/22 12:45*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*09/06/22 09:12*	*09/06/22 12:45*	*1*

Lab Sample ID: MB 880-33854/5-A
Matrix: Solid
Analysis Batch: 33928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33854

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:45	09/07/22 14:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:45	09/07/22 14:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:45	09/07/22 14:38	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/06/22 13:45	09/07/22 14:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:45	09/07/22 14:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/06/22 13:45	09/07/22 14:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*09/06/22 13:45*	*09/07/22 14:38*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*09/06/22 13:45*	*09/07/22 14:38*	*1*

Lab Sample ID: LCS 880-33854/1-A
Matrix: Solid
Analysis Batch: 33928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33854

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1510	*+	mg/Kg		151	70 - 130		
Toluene			0.100	0.1532	*+	mg/Kg		153	70 - 130		
Ethylbenzene			0.100	0.1506	*+	mg/Kg		151	70 - 130		
m,p-Xylenes			0.200	0.3014	*+	mg/Kg		151	70 - 130		
o-Xylene			0.100	0.1648	*+	mg/Kg		165	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*184*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-33854/2-A
Matrix: Solid
Analysis Batch: 33928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33854

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1415	*+	mg/Kg		142	70 - 130	6	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-33854/2-A
Matrix: Solid
Analysis Batch: 33928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33854

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1474	*+	mg/Kg		147	70 - 130	4	35
Ethylbenzene			0.100	0.1424	*+	mg/Kg		142	70 - 130	6	35
m,p-Xylenes			0.200	0.2873	*+	mg/Kg		144	70 - 130	5	35
o-Xylene			0.100	0.1597	*+	mg/Kg		160	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*198*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: MB 880-33856/5-A
Matrix: Solid
Analysis Batch: 33801

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33856

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:49	09/07/22 00:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:49	09/07/22 00:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:49	09/07/22 00:21	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/06/22 13:49	09/07/22 00:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:49	09/07/22 00:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/06/22 13:49	09/07/22 00:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*09/06/22 13:49*	*09/07/22 00:21*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*09/06/22 13:49*	*09/07/22 00:21*	*1*

Lab Sample ID: LCS 880-33856/1-A
Matrix: Solid
Analysis Batch: 33801

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33856

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09648		mg/Kg		96	70 - 130		
Toluene			0.100	0.09439		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.09153		mg/Kg		92	70 - 130		
m,p-Xylenes			0.200	0.1660		mg/Kg		83	70 - 130		
o-Xylene			0.100	0.08641		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-33856/2-A
Matrix: Solid
Analysis Batch: 33801

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33856

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1078		mg/Kg		108	70 - 130	11	35
Toluene			0.100	0.1042		mg/Kg		104	70 - 130	10	35
Ethylbenzene			0.100	0.1000		mg/Kg		100	70 - 130	9	35

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-33856/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 33801 **Prep Batch: 33856**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			0.200	0.1800		mg/Kg		90	70 - 130	8	35
o-Xylene			0.100	0.09378		mg/Kg		94	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-18556-1 MS **Client Sample ID: C-1 1.5'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 33801 **Prep Batch: 33856**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.07972		mg/Kg		79	70 - 130
Toluene	<0.00201	U	0.101	0.07778		mg/Kg		77	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.07531		mg/Kg		75	70 - 130
m,p-Xylenes	<0.00402	U F1	0.202	0.1349	F1	mg/Kg		67	70 - 130
o-Xylene	<0.00201	U	0.101	0.07101		mg/Kg		70	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-18556-1 MSD **Client Sample ID: C-1 1.5'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 33801 **Prep Batch: 33856**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0994	0.1025		mg/Kg		103	70 - 130	25	35
Toluene	<0.00201	U	0.0994	0.09556		mg/Kg		96	70 - 130	21	35
Ethylbenzene	<0.00201	U	0.0994	0.09003		mg/Kg		91	70 - 130	18	35
m,p-Xylenes	<0.00402	U F1	0.199	0.1609		mg/Kg		81	70 - 130	18	35
o-Xylene	<0.00201	U	0.0994	0.08306		mg/Kg		84	70 - 130	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

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

Lab Sample ID: MB 880-33155/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 33141 **Prep Batch: 33155**

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		08/29/22 08:33	08/29/22 10:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 10:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 08:33	08/29/22 10:47	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	08/29/22 08:33	08/29/22 10:47	1
o-Terphenyl (Surr)	102		70 - 130	08/29/22 08:33	08/29/22 10:47	1

Lab Sample ID: LCS 880-33155/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33141 — **Prep Batch: 33155**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	879.7		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1015		mg/Kg		102	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	182	S1+	70 - 130
o-Terphenyl (Surr)	153	S1+	70 - 130

Lab Sample ID: LCSD 880-33155/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33141 — **Prep Batch: 33155**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	895.1		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1001		mg/Kg		100	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	175	S1+	70 - 130
o-Terphenyl (Surr)	149	S1+	70 - 130

Lab Sample ID: 880-18556-1 MS — **Client Sample ID: C-1 1.5'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33141 — **Prep Batch: 33155**

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	876.9		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1145		mg/Kg		113	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	84		70 - 130

Lab Sample ID: 880-18556-1 MSD — **Client Sample ID: C-1 1.5'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33141 — **Prep Batch: 33155**

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	998	894.4		mg/Kg		90	70 - 130	2	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

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

Lab Sample ID: 880-18556-1 MSD
Matrix: Solid
Analysis Batch: 33141

Client Sample ID: C-1 1.5'
Prep Type: Total/NA
Prep Batch: 33155

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1159		mg/Kg		114	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*109*		*70 - 130*
o-Terphenyl (Surr)	*83*		*70 - 130*

Lab Sample ID: MB 880-33157/1-A
Matrix: Solid
Analysis Batch: 33143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33157

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		08/29/22 08:34	08/29/22 10:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/22 08:34	08/29/22 10:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/22 08:34	08/29/22 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*08/29/22 08:34*	*08/29/22 10:47*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*08/29/22 08:34*	*08/29/22 10:47*	*1*

Lab Sample ID: LCS 880-33157/2-A
Matrix: Solid
Analysis Batch: 33143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33157

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1063		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1076		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*178*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*177*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-33157/3-A
Matrix: Solid
Analysis Batch: 33143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33157

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	801.1	*1	mg/Kg		80	70 - 130	28	20
Diesel Range Organics (Over C10-C28)			1000	1131		mg/Kg		113	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*189*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*185*	*S1+*	*70 - 130*

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-33369/1-A
Matrix: Solid
Analysis Batch: 33405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33369

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		08/30/22 13:28	08/31/22 10:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 10:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 10:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*08/30/22 13:28*	*08/31/22 10:04*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*08/30/22 13:28*	*08/31/22 10:04*	*1*

Lab Sample ID: LCS 880-33369/2-A
Matrix: Solid
Analysis Batch: 33405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33369

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	800.4		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	866.9		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*146*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*150*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-33369/3-A
Matrix: Solid
Analysis Batch: 33405

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33369

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	801.4		mg/Kg		80	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	845.2		mg/Kg		85	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*142*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*146*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33080/1-A
Matrix: Solid
Analysis Batch: 33453

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			09/02/22 01:56	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-33080/2-A
Matrix: Solid
Analysis Batch: 33453

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.2		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-33080/3-A
Matrix: Solid
Analysis Batch: 33453

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	260.9		mg/Kg		104	90 - 110	5	20

Lab Sample ID: MB 880-33083/1-A
Matrix: Solid
Analysis Batch: 33545

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			09/03/22 17:50	1

Lab Sample ID: LCS 880-33083/2-A
Matrix: Solid
Analysis Batch: 33545

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.7		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-33083/3-A
Matrix: Solid
Analysis Batch: 33545

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	255.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-18556-24 MS
Matrix: Solid
Analysis Batch: 33545

Client Sample ID: C-24 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1470		1240	2759		mg/Kg		104	90 - 110		

Lab Sample ID: 880-18556-24 MSD
Matrix: Solid
Analysis Batch: 33545

Client Sample ID: C-24 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1470		1240	2761		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-33082/1-A
Matrix: Solid
Analysis Batch: 33546

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			09/03/22 01:12	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-33082/2-A
Matrix: Solid
Analysis Batch: 33546

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.8		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-33082/3-A
Matrix: Solid
Analysis Batch: 33546

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	259.1		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-18556-4 MS
Matrix: Solid
Analysis Batch: 33546

Client Sample ID: C-4 1.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	28.7	F1	250	308.3	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-18556-4 MSD
Matrix: Solid
Analysis Batch: 33546

Client Sample ID: C-4 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	28.7	F1	250	308.9	F1	mg/Kg		112	90 - 110	0	20

Lab Sample ID: 880-18556-14 MS
Matrix: Solid
Analysis Batch: 33546

Client Sample ID: C-14 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1480		1250	2799		mg/Kg		106	90 - 110		

Lab Sample ID: 880-18556-14 MSD
Matrix: Solid
Analysis Batch: 33546

Client Sample ID: C-14 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1480		1250	2785		mg/Kg		105	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

GC VOA

Analysis Batch: 33801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-1	C-1 1.5'	Total/NA	Solid	8021B	33856
880-18556-2	C-2 1.5'	Total/NA	Solid	8021B	33856
880-18556-3	C-2 1.5'	Total/NA	Solid	8021B	33856
880-18556-4	C-4 1.5'	Total/NA	Solid	8021B	33856
880-18556-5	C-5 0-1.5'	Total/NA	Solid	8021B	33856
880-18556-6	C-6 4.1'	Total/NA	Solid	8021B	33856
880-18556-7	C-7 4.1'	Total/NA	Solid	8021B	33856
880-18556-8	C-8 4.1'	Total/NA	Solid	8021B	33856
880-18556-9	C-9 4.1'	Total/NA	Solid	8021B	33856
880-18556-10	C-10 4.1'	Total/NA	Solid	8021B	33856
880-18556-11	C-11 4.1'	Total/NA	Solid	8021B	33856
880-18556-12	C-12 4.1'	Total/NA	Solid	8021B	33856
880-18556-13	C-13 4.1'	Total/NA	Solid	8021B	33856
880-18556-14	C-14 4.1'	Total/NA	Solid	8021B	33856
880-18556-15	C-15 4.1'	Total/NA	Solid	8021B	33856
880-18556-16	C-16 4.1'	Total/NA	Solid	8021B	33856
880-18556-17	C-17 4.1'	Total/NA	Solid	8021B	33856
880-18556-18	C-18 4.1'	Total/NA	Solid	8021B	33856
880-18556-19	C-19 4.1'	Total/NA	Solid	8021B	33856
880-18556-20	C-20 4.1'	Total/NA	Solid	8021B	33856
MB 880-33802/5-A	Method Blank	Total/NA	Solid	8021B	33802
MB 880-33856/5-A	Method Blank	Total/NA	Solid	8021B	33856
LCS 880-33856/1-A	Lab Control Sample	Total/NA	Solid	8021B	33856
LCSD 880-33856/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33856
880-18556-1 MS	C-1 1.5'	Total/NA	Solid	8021B	33856
880-18556-1 MSD	C-1 1.5'	Total/NA	Solid	8021B	33856

Prep Batch: 33802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33802/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 33854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-21	C-21 4.1'	Total/NA	Solid	5035	
880-18556-22	C-22 4.1'	Total/NA	Solid	5035	
880-18556-23	C-23 4.1'	Total/NA	Solid	5035	
880-18556-24	C-24 4.1'	Total/NA	Solid	5035	
880-18556-25	C-25 4.1'	Total/NA	Solid	5035	
880-18556-26	C-26 4.1'	Total/NA	Solid	5035	
880-18556-27	C-27 0-4.1'	Total/NA	Solid	5035	
880-18556-28	C-28 0-4.1'	Total/NA	Solid	5035	
880-18556-29	C-29 0-4.1'	Total/NA	Solid	5035	
880-18556-30	C-30 0-4.1'	Total/NA	Solid	5035	
880-18556-31	C-31 0-4.1'	Total/NA	Solid	5035	
880-18556-32	C-32 0-4.1'	Total/NA	Solid	5035	
MB 880-33854/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33854/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33854/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

GC VOA

Prep Batch: 33856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-1	C-1 1.5'	Total/NA	Solid	5035	
880-18556-2	C-2 1.5'	Total/NA	Solid	5035	
880-18556-3	C-2 1.5'	Total/NA	Solid	5035	
880-18556-4	C-4 1.5'	Total/NA	Solid	5035	
880-18556-5	C-5 0-1.5'	Total/NA	Solid	5035	
880-18556-6	C-6 4.1'	Total/NA	Solid	5035	
880-18556-7	C-7 4.1'	Total/NA	Solid	5035	
880-18556-8	C-8 4.1'	Total/NA	Solid	5035	
880-18556-9	C-9 4.1'	Total/NA	Solid	5035	
880-18556-10	C-10 4.1'	Total/NA	Solid	5035	
880-18556-11	C-11 4.1'	Total/NA	Solid	5035	
880-18556-12	C-12 4.1'	Total/NA	Solid	5035	
880-18556-13	C-13 4.1'	Total/NA	Solid	5035	
880-18556-14	C-14 4.1'	Total/NA	Solid	5035	
880-18556-15	C-15 4.1'	Total/NA	Solid	5035	
880-18556-16	C-16 4.1'	Total/NA	Solid	5035	
880-18556-17	C-17 4.1'	Total/NA	Solid	5035	
880-18556-18	C-18 4.1'	Total/NA	Solid	5035	
880-18556-19	C-19 4.1'	Total/NA	Solid	5035	
880-18556-20	C-20 4.1'	Total/NA	Solid	5035	
MB 880-33856/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33856/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33856/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18556-1 MS	C-1 1.5'	Total/NA	Solid	5035	
880-18556-1 MSD	C-1 1.5'	Total/NA	Solid	5035	

Analysis Batch: 33916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-1	C-1 1.5'	Total/NA	Solid	Total BTEX	
880-18556-2	C-2 1.5'	Total/NA	Solid	Total BTEX	
880-18556-3	C-2 1.5'	Total/NA	Solid	Total BTEX	
880-18556-4	C-4 1.5'	Total/NA	Solid	Total BTEX	
880-18556-5	C-5 0-1.5'	Total/NA	Solid	Total BTEX	
880-18556-6	C-6 4.1'	Total/NA	Solid	Total BTEX	
880-18556-7	C-7 4.1'	Total/NA	Solid	Total BTEX	
880-18556-8	C-8 4.1'	Total/NA	Solid	Total BTEX	
880-18556-9	C-9 4.1'	Total/NA	Solid	Total BTEX	
880-18556-10	C-10 4.1'	Total/NA	Solid	Total BTEX	
880-18556-11	C-11 4.1'	Total/NA	Solid	Total BTEX	
880-18556-12	C-12 4.1'	Total/NA	Solid	Total BTEX	
880-18556-13	C-13 4.1'	Total/NA	Solid	Total BTEX	
880-18556-14	C-14 4.1'	Total/NA	Solid	Total BTEX	
880-18556-15	C-15 4.1'	Total/NA	Solid	Total BTEX	
880-18556-16	C-16 4.1'	Total/NA	Solid	Total BTEX	
880-18556-17	C-17 4.1'	Total/NA	Solid	Total BTEX	
880-18556-18	C-18 4.1'	Total/NA	Solid	Total BTEX	
880-18556-19	C-19 4.1'	Total/NA	Solid	Total BTEX	
880-18556-20	C-20 4.1'	Total/NA	Solid	Total BTEX	
880-18556-21	C-21 4.1'	Total/NA	Solid	Total BTEX	
880-18556-22	C-22 4.1'	Total/NA	Solid	Total BTEX	
880-18556-23	C-23 4.1'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

GC VOA (Continued)

Analysis Batch: 33916 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-24	C-24 4.1'	Total/NA	Solid	Total BTEX	
880-18556-25	C-25 4.1'	Total/NA	Solid	Total BTEX	
880-18556-26	C-26 4.1'	Total/NA	Solid	Total BTEX	
880-18556-27	C-27 0-4.1'	Total/NA	Solid	Total BTEX	
880-18556-28	C-28 0-4.1'	Total/NA	Solid	Total BTEX	
880-18556-29	C-29 0-4.1'	Total/NA	Solid	Total BTEX	
880-18556-30	C-30 0-4.1'	Total/NA	Solid	Total BTEX	
880-18556-31	C-31 0-4.1'	Total/NA	Solid	Total BTEX	
880-18556-32	C-32 0-4.1'	Total/NA	Solid	Total BTEX	

Analysis Batch: 33928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-21	C-21 4.1'	Total/NA	Solid	8021B	33854
880-18556-22	C-22 4.1'	Total/NA	Solid	8021B	33854
880-18556-23	C-23 4.1'	Total/NA	Solid	8021B	33854
880-18556-24	C-24 4.1'	Total/NA	Solid	8021B	33854
880-18556-25	C-25 4.1'	Total/NA	Solid	8021B	33854
880-18556-26	C-26 4.1'	Total/NA	Solid	8021B	33854
880-18556-27	C-27 0-4.1'	Total/NA	Solid	8021B	33854
880-18556-28	C-28 0-4.1'	Total/NA	Solid	8021B	33854
880-18556-29	C-29 0-4.1'	Total/NA	Solid	8021B	33854
880-18556-30	C-30 0-4.1'	Total/NA	Solid	8021B	33854
880-18556-31	C-31 0-4.1'	Total/NA	Solid	8021B	33854
880-18556-32	C-32 0-4.1'	Total/NA	Solid	8021B	33854
MB 880-33854/5-A	Method Blank	Total/NA	Solid	8021B	33854
LCS 880-33854/1-A	Lab Control Sample	Total/NA	Solid	8021B	33854
LCSD 880-33854/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33854

GC Semi VOA

Analysis Batch: 33141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-1	C-1 1.5'	Total/NA	Solid	8015B NM	33155
880-18556-2	C-2 1.5'	Total/NA	Solid	8015B NM	33155
880-18556-3	C-2 1.5'	Total/NA	Solid	8015B NM	33155
880-18556-4	C-4 1.5'	Total/NA	Solid	8015B NM	33155
880-18556-5	C-5 0-1.5'	Total/NA	Solid	8015B NM	33155
880-18556-6	C-6 4.1'	Total/NA	Solid	8015B NM	33155
880-18556-7	C-7 4.1'	Total/NA	Solid	8015B NM	33155
880-18556-8	C-8 4.1'	Total/NA	Solid	8015B NM	33155
880-18556-9	C-9 4.1'	Total/NA	Solid	8015B NM	33155
880-18556-10	C-10 4.1'	Total/NA	Solid	8015B NM	33155
880-18556-11	C-11 4.1'	Total/NA	Solid	8015B NM	33155
880-18556-12	C-12 4.1'	Total/NA	Solid	8015B NM	33155
880-18556-13	C-13 4.1'	Total/NA	Solid	8015B NM	33155
880-18556-14	C-14 4.1'	Total/NA	Solid	8015B NM	33155
880-18556-15	C-15 4.1'	Total/NA	Solid	8015B NM	33155
880-18556-16	C-16 4.1'	Total/NA	Solid	8015B NM	33155
880-18556-17	C-17 4.1'	Total/NA	Solid	8015B NM	33155
880-18556-18	C-18 4.1'	Total/NA	Solid	8015B NM	33155
880-18556-19	C-19 4.1'	Total/NA	Solid	8015B NM	33155

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 33141 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-20	C-20 4.1'	Total/NA	Solid	8015B NM	33155
MB 880-33155/1-A	Method Blank	Total/NA	Solid	8015B NM	33155
LCS 880-33155/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33155
LCSD 880-33155/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33155
880-18556-1 MS	C-1 1.5'	Total/NA	Solid	8015B NM	33155
880-18556-1 MSD	C-1 1.5'	Total/NA	Solid	8015B NM	33155

Analysis Batch: 33143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-21	C-21 4.1'	Total/NA	Solid	8015B NM	33157
880-18556-22	C-22 4.1'	Total/NA	Solid	8015B NM	33157
880-18556-23	C-23 4.1'	Total/NA	Solid	8015B NM	33157
880-18556-24	C-24 4.1'	Total/NA	Solid	8015B NM	33157
880-18556-25	C-25 4.1'	Total/NA	Solid	8015B NM	33157
880-18556-26	C-26 4.1'	Total/NA	Solid	8015B NM	33157
MB 880-33157/1-A	Method Blank	Total/NA	Solid	8015B NM	33157
LCS 880-33157/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33157
LCSD 880-33157/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33157

Prep Batch: 33155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-1	C-1 1.5'	Total/NA	Solid	8015NM Prep	
880-18556-2	C-2 1.5'	Total/NA	Solid	8015NM Prep	
880-18556-3	C-2 1.5'	Total/NA	Solid	8015NM Prep	
880-18556-4	C-4 1.5'	Total/NA	Solid	8015NM Prep	
880-18556-5	C-5 0-1.5'	Total/NA	Solid	8015NM Prep	
880-18556-6	C-6 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-7	C-7 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-8	C-8 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-9	C-9 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-10	C-10 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-11	C-11 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-12	C-12 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-13	C-13 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-14	C-14 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-15	C-15 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-16	C-16 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-17	C-17 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-18	C-18 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-19	C-19 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-20	C-20 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-33155/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33155/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33155/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18556-1 MS	C-1 1.5'	Total/NA	Solid	8015NM Prep	
880-18556-1 MSD	C-1 1.5'	Total/NA	Solid	8015NM Prep	

Prep Batch: 33157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-21	C-21 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-22	C-22 4.1'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

GC Semi VOA (Continued)

Prep Batch: 33157 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-23	C-23 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-24	C-24 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-25	C-25 4.1'	Total/NA	Solid	8015NM Prep	
880-18556-26	C-26 4.1'	Total/NA	Solid	8015NM Prep	
MB 880-33157/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33157/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33157/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-1	C-1 1.5'	Total/NA	Solid	8015 NM	
880-18556-2	C-2 1.5'	Total/NA	Solid	8015 NM	
880-18556-3	C-2 1.5'	Total/NA	Solid	8015 NM	
880-18556-4	C-4 1.5'	Total/NA	Solid	8015 NM	
880-18556-5	C-5 0-1.5'	Total/NA	Solid	8015 NM	
880-18556-6	C-6 4.1'	Total/NA	Solid	8015 NM	
880-18556-7	C-7 4.1'	Total/NA	Solid	8015 NM	
880-18556-8	C-8 4.1'	Total/NA	Solid	8015 NM	
880-18556-9	C-9 4.1'	Total/NA	Solid	8015 NM	
880-18556-10	C-10 4.1'	Total/NA	Solid	8015 NM	
880-18556-11	C-11 4.1'	Total/NA	Solid	8015 NM	
880-18556-12	C-12 4.1'	Total/NA	Solid	8015 NM	
880-18556-13	C-13 4.1'	Total/NA	Solid	8015 NM	
880-18556-14	C-14 4.1'	Total/NA	Solid	8015 NM	
880-18556-15	C-15 4.1'	Total/NA	Solid	8015 NM	
880-18556-16	C-16 4.1'	Total/NA	Solid	8015 NM	
880-18556-17	C-17 4.1'	Total/NA	Solid	8015 NM	
880-18556-18	C-18 4.1'	Total/NA	Solid	8015 NM	
880-18556-19	C-19 4.1'	Total/NA	Solid	8015 NM	
880-18556-20	C-20 4.1'	Total/NA	Solid	8015 NM	
880-18556-21	C-21 4.1'	Total/NA	Solid	8015 NM	
880-18556-22	C-22 4.1'	Total/NA	Solid	8015 NM	
880-18556-23	C-23 4.1'	Total/NA	Solid	8015 NM	
880-18556-24	C-24 4.1'	Total/NA	Solid	8015 NM	
880-18556-25	C-25 4.1'	Total/NA	Solid	8015 NM	
880-18556-26	C-26 4.1'	Total/NA	Solid	8015 NM	
880-18556-27	C-27 0-4.1'	Total/NA	Solid	8015 NM	
880-18556-28	C-28 0-4.1'	Total/NA	Solid	8015 NM	
880-18556-29	C-29 0-4.1'	Total/NA	Solid	8015 NM	
880-18556-30	C-30 0-4.1'	Total/NA	Solid	8015 NM	
880-18556-31	C-31 0-4.1'	Total/NA	Solid	8015 NM	
880-18556-32	C-32 0-4.1'	Total/NA	Solid	8015 NM	

Prep Batch: 33369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-27	C-27 0-4.1'	Total/NA	Solid	8015NM Prep	
880-18556-28	C-28 0-4.1'	Total/NA	Solid	8015NM Prep	
880-18556-29	C-29 0-4.1'	Total/NA	Solid	8015NM Prep	
880-18556-30	C-30 0-4.1'	Total/NA	Solid	8015NM Prep	
880-18556-31	C-31 0-4.1'	Total/NA	Solid	8015NM Prep	
880-18556-32	C-32 0-4.1'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Prep Batch: 33369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33369/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33369/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-27	C-27 0-4.1'	Total/NA	Solid	8015B NM	33369
880-18556-28	C-28 0-4.1'	Total/NA	Solid	8015B NM	33369
880-18556-29	C-29 0-4.1'	Total/NA	Solid	8015B NM	33369
880-18556-30	C-30 0-4.1'	Total/NA	Solid	8015B NM	33369
880-18556-31	C-31 0-4.1'	Total/NA	Solid	8015B NM	33369
880-18556-32	C-32 0-4.1'	Total/NA	Solid	8015B NM	33369
MB 880-33369/1-A	Method Blank	Total/NA	Solid	8015B NM	33369
LCS 880-33369/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33369
LCSD 880-33369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33369

HPLC/IC

Leach Batch: 33080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-1	C-1 1.5'	Soluble	Solid	DI Leach	
880-18556-2	C-2 1.5'	Soluble	Solid	DI Leach	
880-18556-3	C-2 1.5'	Soluble	Solid	DI Leach	
MB 880-33080/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33080/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33080/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 33082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-4	C-4 1.5'	Soluble	Solid	DI Leach	
880-18556-5	C-5 0-1.5'	Soluble	Solid	DI Leach	
880-18556-6	C-6 4.1'	Soluble	Solid	DI Leach	
880-18556-7	C-7 4.1'	Soluble	Solid	DI Leach	
880-18556-8	C-8 4.1'	Soluble	Solid	DI Leach	
880-18556-9	C-9 4.1'	Soluble	Solid	DI Leach	
880-18556-10	C-10 4.1'	Soluble	Solid	DI Leach	
880-18556-11	C-11 4.1'	Soluble	Solid	DI Leach	
880-18556-12	C-12 4.1'	Soluble	Solid	DI Leach	
880-18556-13	C-13 4.1'	Soluble	Solid	DI Leach	
880-18556-14	C-14 4.1'	Soluble	Solid	DI Leach	
880-18556-15	C-15 4.1'	Soluble	Solid	DI Leach	
880-18556-16	C-16 4.1'	Soluble	Solid	DI Leach	
880-18556-17	C-17 4.1'	Soluble	Solid	DI Leach	
880-18556-18	C-18 4.1'	Soluble	Solid	DI Leach	
880-18556-19	C-19 4.1'	Soluble	Solid	DI Leach	
880-18556-20	C-20 4.1'	Soluble	Solid	DI Leach	
880-18556-21	C-21 4.1'	Soluble	Solid	DI Leach	
880-18556-22	C-22 4.1'	Soluble	Solid	DI Leach	
880-18556-23	C-23 4.1'	Soluble	Solid	DI Leach	
MB 880-33082/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33082/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

HPLC/IC (Continued)

Leach Batch: 33082 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-33082/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18556-4 MS	C-4 1.5'	Soluble	Solid	DI Leach	
880-18556-4 MSD	C-4 1.5'	Soluble	Solid	DI Leach	
880-18556-14 MS	C-14 4.1'	Soluble	Solid	DI Leach	
880-18556-14 MSD	C-14 4.1'	Soluble	Solid	DI Leach	

Leach Batch: 33083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-24	C-24 4.1'	Soluble	Solid	DI Leach	
880-18556-25	C-25 4.1'	Soluble	Solid	DI Leach	
880-18556-26	C-26 4.1'	Soluble	Solid	DI Leach	
880-18556-27	C-27 0-4.1'	Soluble	Solid	DI Leach	
880-18556-28	C-28 0-4.1'	Soluble	Solid	DI Leach	
880-18556-29	C-29 0-4.1'	Soluble	Solid	DI Leach	
880-18556-30	C-30 0-4.1'	Soluble	Solid	DI Leach	
880-18556-31	C-31 0-4.1'	Soluble	Solid	DI Leach	
880-18556-32	C-32 0-4.1'	Soluble	Solid	DI Leach	
MB 880-33083/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33083/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33083/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18556-24 MS	C-24 4.1'	Soluble	Solid	DI Leach	
880-18556-24 MSD	C-24 4.1'	Soluble	Solid	DI Leach	

Analysis Batch: 33453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-1	C-1 1.5'	Soluble	Solid	300.0	33080
880-18556-2	C-2 1.5'	Soluble	Solid	300.0	33080
880-18556-3	C-2 1.5'	Soluble	Solid	300.0	33080
MB 880-33080/1-A	Method Blank	Soluble	Solid	300.0	33080
LCS 880-33080/2-A	Lab Control Sample	Soluble	Solid	300.0	33080
LCSD 880-33080/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33080

Analysis Batch: 33545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-24	C-24 4.1'	Soluble	Solid	300.0	33083
880-18556-25	C-25 4.1'	Soluble	Solid	300.0	33083
880-18556-26	C-26 4.1'	Soluble	Solid	300.0	33083
880-18556-27	C-27 0-4.1'	Soluble	Solid	300.0	33083
880-18556-28	C-28 0-4.1'	Soluble	Solid	300.0	33083
880-18556-29	C-29 0-4.1'	Soluble	Solid	300.0	33083
880-18556-30	C-30 0-4.1'	Soluble	Solid	300.0	33083
880-18556-31	C-31 0-4.1'	Soluble	Solid	300.0	33083
880-18556-32	C-32 0-4.1'	Soluble	Solid	300.0	33083
MB 880-33083/1-A	Method Blank	Soluble	Solid	300.0	33083
LCS 880-33083/2-A	Lab Control Sample	Soluble	Solid	300.0	33083
LCSD 880-33083/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33083
880-18556-24 MS	C-24 4.1'	Soluble	Solid	300.0	33083
880-18556-24 MSD	C-24 4.1'	Soluble	Solid	300.0	33083

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

HPLC/IC

Analysis Batch: 33546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18556-4	C-4 1.5'	Soluble	Solid	300.0	33082
880-18556-5	C-5 0-1.5'	Soluble	Solid	300.0	33082
880-18556-6	C-6 4.1'	Soluble	Solid	300.0	33082
880-18556-7	C-7 4.1'	Soluble	Solid	300.0	33082
880-18556-8	C-8 4.1'	Soluble	Solid	300.0	33082
880-18556-9	C-9 4.1'	Soluble	Solid	300.0	33082
880-18556-10	C-10 4.1'	Soluble	Solid	300.0	33082
880-18556-11	C-11 4.1'	Soluble	Solid	300.0	33082
880-18556-12	C-12 4.1'	Soluble	Solid	300.0	33082
880-18556-13	C-13 4.1'	Soluble	Solid	300.0	33082
880-18556-14	C-14 4.1'	Soluble	Solid	300.0	33082
880-18556-15	C-15 4.1'	Soluble	Solid	300.0	33082
880-18556-16	C-16 4.1'	Soluble	Solid	300.0	33082
880-18556-17	C-17 4.1'	Soluble	Solid	300.0	33082
880-18556-18	C-18 4.1'	Soluble	Solid	300.0	33082
880-18556-19	C-19 4.1'	Soluble	Solid	300.0	33082
880-18556-20	C-20 4.1'	Soluble	Solid	300.0	33082
880-18556-21	C-21 4.1'	Soluble	Solid	300.0	33082
880-18556-22	C-22 4.1'	Soluble	Solid	300.0	33082
880-18556-23	C-23 4.1'	Soluble	Solid	300.0	33082
MB 880-33082/1-A	Method Blank	Soluble	Solid	300.0	33082
LCS 880-33082/2-A	Lab Control Sample	Soluble	Solid	300.0	33082
LCSD 880-33082/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33082
880-18556-4 MS	C-4 1.5'	Soluble	Solid	300.0	33082
880-18556-4 MSD	C-4 1.5'	Soluble	Solid	300.0	33082
880-18556-14 MS	C-14 4.1'	Soluble	Solid	300.0	33082
880-18556-14 MSD	C-14 4.1'	Soluble	Solid	300.0	33082

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-1 1.5'
Date Collected: 08/25/22 10:20
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 00:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 11:53	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33080	08/26/22 15:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33453	09/02/22 06:14	CH	EET MID

Client Sample ID: C-2 1.5'
Date Collected: 08/25/22 10:21
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 01:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 12:58	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33080	08/26/22 15:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33453	09/02/22 06:23	CH	EET MID

Client Sample ID: C-2 1.5'
Date Collected: 08/25/22 10:22
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 01:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 13:19	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33080	08/26/22 15:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33453	09/02/22 06:32	CH	EET MID

Client Sample ID: C-4 1.5'
Date Collected: 08/25/22 10:23
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 01:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-4 1.5'

Lab Sample ID: 880-18556-4
Matrix: Solid
Date Collected: 08/25/22 10:23
Date Received: 08/26/22 08:54

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			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 13:41	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 01:34	SMC	EET MID

Client Sample ID: C-5 0-1.5'

Lab Sample ID: 880-18556-5
Matrix: Solid
Date Collected: 08/25/22 10:24
Date Received: 08/26/22 08:54

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	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 02:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 14:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 01:55	SMC	EET MID

Client Sample ID: C-6 4.1'

Lab Sample ID: 880-18556-6
Matrix: Solid
Date Collected: 08/25/22 11:30
Date Received: 08/26/22 08:54

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	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 02:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 14:25	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 02:02	SMC	EET MID

Client Sample ID: C-7 4.1'

Lab Sample ID: 880-18556-7
Matrix: Solid
Date Collected: 08/25/22 11:35
Date Received: 08/26/22 08:54

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	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 02:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 14:46	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-7 4.1'

Date Collected: 08/25/22 11:35
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 02:09	SMC	EET MID

Client Sample ID: C-8 4.1'

Date Collected: 08/25/22 11:38
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 03:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 15:08	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 02:17	SMC	EET MID

Client Sample ID: C-9 4.1'

Date Collected: 08/25/22 11:40
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 03:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 15:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 02:38	SMC	EET MID

Client Sample ID: C-10 4.1'

Date Collected: 08/25/22 11:44
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 03:53	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 15:52	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 02:45	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-11 4.1'

Lab Sample ID: 880-18556-11
Matrix: Solid
Date Collected: 08/25/22 11:46
Date Received: 08/26/22 08:54

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	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 05:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 16:43	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 02:52	SMC	EET MID

Client Sample ID: C-12 4.1'

Lab Sample ID: 880-18556-12
Matrix: Solid
Date Collected: 08/25/22 11:48
Date Received: 08/26/22 08:54

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	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 06:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 17:05	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 03:00	SMC	EET MID

Client Sample ID: C-13 4.1'

Lab Sample ID: 880-18556-13
Matrix: Solid
Date Collected: 08/25/22 11:50
Date Received: 08/26/22 08:54

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	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 06:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 17:27	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33546	09/03/22 10:19	SMC	EET MID

Client Sample ID: C-14 4.1'

Lab Sample ID: 880-18556-14
Matrix: Solid
Date Collected: 08/25/22 11:52
Date Received: 08/26/22 08:54

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	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 06:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-14 4.1'

Date Collected: 08/25/22 11:52
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 17:49	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33546	09/03/22 03:08	SMC	EET MID

Client Sample ID: C-15 4.1'

Date Collected: 08/25/22 11:55
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 07:05	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 18:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33546	09/03/22 03:29	SMC	EET MID

Client Sample ID: C-16 4.1'

Date Collected: 08/25/22 11:58
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 07:25	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 18:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 03:36	SMC	EET MID

Client Sample ID: C-17 4.1'

Date Collected: 08/25/22 12:01
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 07:45	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 18:54	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-17 4.1'

Date Collected: 08/25/22 12:01
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 03:58	SMC	EET MID

Client Sample ID: C-18 4.1'

Date Collected: 08/25/22 12:04
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 08:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 19:16	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 04:05	SMC	EET MID

Client Sample ID: C-19 4.1'

Date Collected: 08/25/22 12:08
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 08:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 19:37	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 04:12	SMC	EET MID

Client Sample ID: C-20 4.1'

Date Collected: 08/25/22 12:11
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	33856	09/06/22 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33801	09/07/22 09:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33155	08/29/22 08:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33141	08/29/22 19:59	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 04:19	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-21 4.1'

Lab Sample ID: 880-18556-21
Matrix: Solid
Date Collected: 08/25/22 12:14
Date Received: 08/26/22 08:54

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	33854	09/06/22 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33928	09/07/22 17:38	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33157	08/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 17:49	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33546	09/03/22 04:27	SMC	EET MID

Client Sample ID: C-22 4.1'

Lab Sample ID: 880-18556-22
Matrix: Solid
Date Collected: 08/25/22 12:18
Date Received: 08/26/22 08:54

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	33854	09/06/22 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33928	09/07/22 18:03	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33157	08/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 18:10	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33546	09/03/22 04:34	SMC	EET MID

Client Sample ID: C-23 4.1'

Lab Sample ID: 880-18556-23
Matrix: Solid
Date Collected: 08/25/22 12:22
Date Received: 08/26/22 08:54

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	33854	09/06/22 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33928	09/07/22 18:29	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33157	08/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 18:32	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33082	08/26/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33546	09/03/22 04:41	SMC	EET MID

Client Sample ID: C-24 4.1'

Lab Sample ID: 880-18556-24
Matrix: Solid
Date Collected: 08/25/22 12:30
Date Received: 08/26/22 08:54

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	33854	09/06/22 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33928	09/07/22 18:55	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-24 4.1'

Lab Sample ID: 880-18556-24
Matrix: Solid
Date Collected: 08/25/22 12:30
Date Received: 08/26/22 08:54

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			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33157	08/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 18:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33083	08/26/22 15:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33545	09/03/22 18:18	SMC	EET MID

Client Sample ID: C-25 4.1'

Lab Sample ID: 880-18556-25
Matrix: Solid
Date Collected: 08/25/22 12:34
Date Received: 08/26/22 08:54

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	33854	09/06/22 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33928	09/07/22 20:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33157	08/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 19:16	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33083	08/26/22 15:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33545	09/03/22 18:45	SMC	EET MID

Client Sample ID: C-26 4.1'

Lab Sample ID: 880-18556-26
Matrix: Solid
Date Collected: 08/25/22 12:40
Date Received: 08/26/22 08:54

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	33854	09/06/22 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33928	09/07/22 21:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33157	08/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 19:37	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	33083	08/26/22 15:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33545	09/03/22 18:54	SMC	EET MID

Client Sample ID: C-27 0-4.1'

Lab Sample ID: 880-18556-27
Matrix: Solid
Date Collected: 08/25/22 14:29
Date Received: 08/26/22 08:54

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	33854	09/06/22 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33928	09/07/22 21:32	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33369	08/30/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33405	08/31/22 13:19	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-27 0-4.1' Lab Sample ID: 880-18556-27

Date Collected: 08/25/22 14:29 **Matrix: Solid**
Date Received: 08/26/22 08:54

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	33083	08/26/22 15:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33545	09/03/22 19:04	SMC	EET MID

Client Sample ID: C-28 0-4.1' Lab Sample ID: 880-18556-28

Date Collected: 08/25/22 14:31 **Matrix: Solid**
Date Received: 08/26/22 08:54

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	33854	09/06/22 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33928	09/07/22 21:58	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33369	08/30/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33405	08/31/22 13:41	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	33083	08/26/22 15:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33545	09/03/22 19:13	SMC	EET MID

Client Sample ID: C-29 0-4.1' Lab Sample ID: 880-18556-29

Date Collected: 08/25/22 14:38 **Matrix: Solid**
Date Received: 08/26/22 08:54

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	33854	09/06/22 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33928	09/07/22 22:25	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33369	08/30/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33405	08/31/22 14:02	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33083	08/26/22 15:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33545	09/03/22 19:41	SMC	EET MID

Client Sample ID: C-30 0-4.1' Lab Sample ID: 880-18556-30

Date Collected: 08/25/22 14:45 **Matrix: Solid**
Date Received: 08/26/22 08:54

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	33854	09/06/22 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33928	09/07/22 22:51	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33369	08/30/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33405	08/31/22 14:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33083	08/26/22 15:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33545	09/03/22 19:50	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Client Sample ID: C-31 0-4.1'

Date Collected: 08/25/22 15:05
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33854	09/06/22 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33928	09/07/22 23:17	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33369	08/30/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33405	08/31/22 14:46	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33083	08/26/22 15:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33545	09/03/22 19:59	SMC	EET MID

Client Sample ID: C-32 0-4.1'

Date Collected: 08/25/22 15:11
Date Received: 08/26/22 08:54

Lab Sample ID: 880-18556-32

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33854	09/06/22 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33928	09/07/22 23:43	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33916	09/07/22 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33316	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33369	08/30/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33405	08/31/22 15:08	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33083	08/26/22 15:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33545	09/03/22 20:09	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

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	T104704400-22-24	06-30-23

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. Job ID: 880-18556-1
Project/Site: Limestone 1H SDG: 21-0100-24

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18556-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18556-1	C-1 1.5'	Solid	08/25/22 10:20	08/26/22 08:54
880-18556-2	C-2 1.5'	Solid	08/25/22 10:21	08/26/22 08:54
880-18556-3	C-2 1.5'	Solid	08/25/22 10:22	08/26/22 08:54
880-18556-4	C-4 1.5'	Solid	08/25/22 10:23	08/26/22 08:54
880-18556-5	C-5 0-1.5'	Solid	08/25/22 10:24	08/26/22 08:54
880-18556-6	C-6 4.1'	Solid	08/25/22 11:30	08/26/22 08:54
880-18556-7	C-7 4.1'	Solid	08/25/22 11:35	08/26/22 08:54
880-18556-8	C-8 4.1'	Solid	08/25/22 11:38	08/26/22 08:54
880-18556-9	C-9 4.1'	Solid	08/25/22 11:40	08/26/22 08:54
880-18556-10	C-10 4.1'	Solid	08/25/22 11:44	08/26/22 08:54
880-18556-11	C-11 4.1'	Solid	08/25/22 11:46	08/26/22 08:54
880-18556-12	C-12 4.1'	Solid	08/25/22 11:48	08/26/22 08:54
880-18556-13	C-13 4.1'	Solid	08/25/22 11:50	08/26/22 08:54
880-18556-14	C-14 4.1'	Solid	08/25/22 11:52	08/26/22 08:54
880-18556-15	C-15 4.1'	Solid	08/25/22 11:55	08/26/22 08:54
880-18556-16	C-16 4.1'	Solid	08/25/22 11:58	08/26/22 08:54
880-18556-17	C-17 4.1'	Solid	08/25/22 12:01	08/26/22 08:54
880-18556-18	C-18 4.1'	Solid	08/25/22 12:04	08/26/22 08:54
880-18556-19	C-19 4.1'	Solid	08/25/22 12:08	08/26/22 08:54
880-18556-20	C-20 4.1'	Solid	08/25/22 12:11	08/26/22 08:54
880-18556-21	C-21 4.1'	Solid	08/25/22 12:14	08/26/22 08:54
880-18556-22	C-22 4.1'	Solid	08/25/22 12:18	08/26/22 08:54
880-18556-23	C-23 4.1'	Solid	08/25/22 12:22	08/26/22 08:54
880-18556-24	C-24 4.1'	Solid	08/25/22 12:30	08/26/22 08:54
880-18556-25	C-25 4.1'	Solid	08/25/22 12:34	08/26/22 08:54
880-18556-26	C-26 4.1'	Solid	08/25/22 12:40	08/26/22 08:54
880-18556-27	C-27 0-4.1'	Solid	08/25/22 14:29	08/26/22 08:54
880-18556-28	C-28 0-4.1'	Solid	08/25/22 14:31	08/26/22 08:54
880-18556-29	C-29 0-4.1'	Solid	08/25/22 14:38	08/26/22 08:54
880-18556-30	C-30 0-4.1'	Solid	08/25/22 14:45	08/26/22 08:54
880-18556-31	C-31 0-4.1'	Solid	08/25/22 15:05	08/26/22 08:54
880-18556-32	C-32 0-4.1'	Solid	08/25/22 15:11	08/26/22 08:54

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No. 2670

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 8/26/2022 PAGE 1 OF 3

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: LIMESTONE 1H

LAI PROJECT #: 21- COLLECTOR: DSG/PM

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MNT/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-1 1.5		8/25/22	1020	S	1				X		X		X	X	X													X	
C-2 1.5			1021																										
C-3 1.5'			1022																										
C-4 1.5'			1023																										
C-5 0-1.5'			1024																										
C-6 4.1'			1130																										
C-7 4.1'			1135																										
C 8 4.1'			1138																										
C-9 4.1'			1140																										
C-10 4.1'			1144																										
C-11 4.1'			1146																										
C-12 4.1'			1148																										
C-13 4.1'			1150																										
C-14 4.1'			1152																										
C-15 4.1'			1155																										
TOTAL 15																													

880-18556 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Daniel Stefanski	8/26/2022	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 0.6/0.9 THERM#
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 4/10/2023 5:31:08 PM
Released to Imaging: 5/12/2023 11:29:26 AM
9/8/2022

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No. 2671

CHAIN-OF-CUSTODY

9/8/2022

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE 8/25/2022 PAGE 2 OF 3

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Limestone 1/4

LAI PROJECT #: 21-0100-24 COLLECTOR: DSH/PM

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MNT / NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-16 4.1'		8/25/22	~~1158~~ 8/25/22	S	1				X		X	
C-17 4.1'			1201									
C-18 4.1'			1204									
C-19 4.1'			1208									
C-20 4.1'			1211									
C-21 4.1'			1214									
C-22 4.1'			1218									
C-23 4.1'			1222									
C-24 4.1'			1230									
C-25 4.1'			1234									
C-26 4.1'			1240									
C-27 0-4.1'			1429									
C-28 0-4.1'			1431									
C-29 0-4.1'			1438									
C-30 0-4.1'			1445									

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

TOTAL 15

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
David Stahmer	8/26/22	0954
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 4.6 THERM# 0.6/0.8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

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No. 2672

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE 8/26/2022 PAGE 3 OF 3

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME. LIMESTONE 1H

LAI PROJECT #: 21-0100-24 COLLECTOR: DSG/PM

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MNT/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP VOC ☐	TCLP - METALS (RCRA) ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200 8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-31 0-4.1		8/25/22	1505	S	1				X		X			X	X	X																										X			
C-32 0-4.1		8/25/22	1511	S	1				X		X			X	X	X																										X			

TOTAL 2

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Daniel Stephens	8/26/22	Brad Jessup
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 0.6/0.8 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-18556-1
SDG Number: 21-0100-24

Login Number: 18556
List Number: 1
Creator: Teel, Brianna

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	

eurofins | Environment Testing America

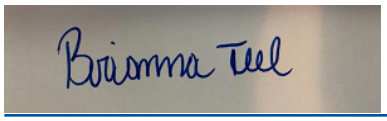
ANALYTICAL REPORT

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

Laboratory Job ID: 880-18627-1
Laboratory Sample Delivery Group: 21-0100-24
Client Project/Site: Limestone 1H

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

Attn: Mr. Mark J Larson



Authorized for release by:
9/8/2022 11:18:26 AM
Brianna Teel, Project Manager
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Designee for

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(806)794-1296
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LINKS

Review your project results through my EOL

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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: Limestone 1H

Laboratory Job ID: 880-18627-1
SDG: 21-0100-24

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Eurofins Midland
9/8/2022

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Job ID: 880-18627-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-18627-1

Receipt
The samples were received on 8/29/2022 4:20 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 1.5°C

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: C-49 (880-18627-17). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-54 (880-18627-22), (LCS 880-33883/1-A) and (880-18512-A-9-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.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33380/2-A) and (LCSD 880-33380/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33369/2-A) and (LCSD 880-33369/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-33369 and analytical batch 880-33405 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33502/2-A), (LCSD 880-33502/3-A) and (MB 880-33502/1-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.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33459 and 880-33459 and analytical batch 880-33550 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.The associated samples are: C-45 (880-18627-13), C-46 (880-18627-14), C-47 (880-18627-15), C-48 (880-18627-16), C-49 (880-18627-17), C-50 (880-18627-18), C-51 (880-18627-19), C-52 (880-18627-20), C-53 (880-18627-21), C-54 (880-18627-22), (880-18627-A-13-C MS) and (880-18627-A-13-D MSD).

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: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Client Sample ID: C-33

Date Collected: 08/26/22 12:00
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 13:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 13:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 13:08	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/07/22 09:37	09/07/22 13:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 13:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/07/22 09:37	09/07/22 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*09/07/22 09:37*	*09/07/22 13:08*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*09/07/22 09:37*	*09/07/22 13:08*	*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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 14:56	08/31/22 20:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 14:56	08/31/22 20:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 14:56	08/31/22 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*124*		*70 - 130*	*08/30/22 14:56*	*08/31/22 20:54*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*08/30/22 14:56*	*08/31/22 20:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**935**		4.99		mg/Kg			09/06/22 08:34	1

Client Sample ID: C-34

Date Collected: 08/26/22 12:02
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 13:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 13:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 13:29	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/07/22 09:37	09/07/22 13:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 13:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/07/22 09:37	09/07/22 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/07/22 09:37*	*09/07/22 13:29*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/07/22 09:37*	*09/07/22 13:29*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Client Sample ID: C-34

Date Collected: 08/26/22 12:02
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-2

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 14:56	08/31/22 21:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 14:56	08/31/22 21:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 14:56	08/31/22 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*08/30/22 14:56*	*08/31/22 21:59*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*08/30/22 14:56*	*08/31/22 21:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**741**		5.00		mg/Kg			09/06/22 08:55	1

Client Sample ID: C-35

Date Collected: 08/26/22 12:04
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 13:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 13:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 13:49	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/07/22 09:37	09/07/22 13:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 13:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/07/22 09:37	09/07/22 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*09/07/22 09:37*	*09/07/22 13:49*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/07/22 09:37*	*09/07/22 13:49*	*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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 14:56	08/31/22 22:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 14:56	08/31/22 22:20	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-35 Lab Sample ID: 880-18627-3

Date Collected: 08/26/22 12:04 **Matrix: Solid**
Date Received: 08/29/22 16:20

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		08/30/22 14:56	08/31/22 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*08/30/22 14:56*	*08/31/22 22:20*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*08/30/22 14:56*	*08/31/22 22:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**839**		4.96		mg/Kg			09/06/22 09:02	1

Client Sample ID: C-36 Lab Sample ID: 880-18627-4

Date Collected: 08/26/22 12:07 **Matrix: Solid**
Date Received: 08/29/22 16:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 14:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 14:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 14:10	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/07/22 09:37	09/07/22 14:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 14:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/07/22 09:37	09/07/22 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/07/22 09:37*	*09/07/22 14:10*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/07/22 09:37*	*09/07/22 14:10*	*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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 14:56	08/31/22 22:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 14:56	08/31/22 22:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 14:56	08/31/22 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*08/30/22 14:56*	*08/31/22 22:42*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*08/30/22 14:56*	*08/31/22 22:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**763**		4.97		mg/Kg			09/06/22 09:09	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Client Sample ID: C-37

Date Collected: 08/26/22 12:11
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 14:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 14:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 14:30	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/07/22 09:37	09/07/22 14:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 14:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/07/22 09:37	09/07/22 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*09/07/22 09:37*	*09/07/22 14:30*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/07/22 09:37*	*09/07/22 14:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 14:56	08/31/22 23:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 14:56	08/31/22 23:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 14:56	08/31/22 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*08/30/22 14:56*	*08/31/22 23:04*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*08/30/22 14:56*	*08/31/22 23:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**648**		5.04		mg/Kg			09/06/22 09:16	1

Client Sample ID: C-38

Date Collected: 08/26/22 12:15
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 14:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 14:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 14:50	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/07/22 09:37	09/07/22 14:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 14:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/07/22 09:37	09/07/22 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/07/22 09:37*	*09/07/22 14:50*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/07/22 09:37*	*09/07/22 14:50*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-38 Lab Sample ID: 880-18627-6

Date Collected: 08/26/22 12:15 **Matrix: Solid**
Date Received: 08/29/22 16:20

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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 14:56	08/31/22 23:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 14:56	08/31/22 23:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 14:56	08/31/22 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*08/30/22 14:56*	*08/31/22 23:26*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*08/30/22 14:56*	*08/31/22 23:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		5.03		mg/Kg			09/06/22 09:38	1

Client Sample ID: C-39 Lab Sample ID: 880-18627-7

Date Collected: 08/26/22 12:18 **Matrix: Solid**
Date Received: 08/29/22 16:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 15:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 15:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 15:11	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/07/22 09:37	09/07/22 15:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 15:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/07/22 09:37	09/07/22 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*09/07/22 09:37*	*09/07/22 15:11*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/07/22 09:37*	*09/07/22 15:11*	*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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 14:56	08/31/22 23:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 14:56	08/31/22 23:47	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-39 Lab Sample ID: 880-18627-7

Date Collected: 08/26/22 12:18 **Matrix: Solid**
Date Received: 08/29/22 16:20

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		08/30/22 14:56	08/31/22 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*08/30/22 14:56*	*08/31/22 23:47*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*08/30/22 14:56*	*08/31/22 23:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**614**		5.00		mg/Kg			09/06/22 09:45	1

Client Sample ID: C-40 Lab Sample ID: 880-18627-8

Date Collected: 08/26/22 12:21 **Matrix: Solid**
Date Received: 08/29/22 16:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 15:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 15:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 15:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/07/22 09:37	09/07/22 15:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 15:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/07/22 09:37	09/07/22 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/07/22 09:37*	*09/07/22 15:31*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/07/22 09:37*	*09/07/22 15:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/01/22 09:04	09/02/22 15:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/01/22 09:04	09/02/22 15:15	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/01/22 09:04	09/02/22 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*09/01/22 09:04*	*09/02/22 15:15*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*09/01/22 09:04*	*09/02/22 15:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**926**		4.97		mg/Kg			09/06/22 09:52	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Client Sample ID: C-41

Date Collected: 08/26/22 12:25
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-9
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/07/22 09:37	09/07/22 15:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/07/22 09:37	09/07/22 15:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/07/22 09:37	09/07/22 15:52	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		09/07/22 09:37	09/07/22 15:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/07/22 09:37	09/07/22 15:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/07/22 09:37	09/07/22 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/07/22 09:37*	*09/07/22 15:52*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/07/22 09:37*	*09/07/22 15:52*	*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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/01/22 09:04	09/02/22 15:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/22 09:04	09/02/22 15:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/22 09:04	09/02/22 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*09/01/22 09:04*	*09/02/22 15:36*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*09/01/22 09:04*	*09/02/22 15:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**281**		4.99		mg/Kg			09/06/22 09:59	1

Client Sample ID: C-42

Date Collected: 08/26/22 12:28
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-10
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 16:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 16:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 16:12	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/07/22 09:37	09/07/22 16:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 16:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/07/22 09:37	09/07/22 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/07/22 09:37*	*09/07/22 16:12*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/07/22 09:37*	*09/07/22 16:12*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-42 Lab Sample ID: 880-18627-10

Date Collected: 08/26/22 12:28 **Matrix: Solid**
Date Received: 08/29/22 16:20

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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/01/22 09:04	09/02/22 15:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/01/22 09:04	09/02/22 15:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/01/22 09:04	09/02/22 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*09/01/22 09:04*	*09/02/22 15:58*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*09/01/22 09:04*	*09/02/22 15:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**766**		4.99		mg/Kg			09/06/22 10:07	1

Client Sample ID: C-43 Lab Sample ID: 880-18627-11

Date Collected: 08/26/22 12:31 **Matrix: Solid**
Date Received: 08/29/22 16:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/07/22 09:37	09/07/22 18:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/07/22 09:37	09/07/22 18:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/07/22 09:37	09/07/22 18:03	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		09/07/22 09:37	09/07/22 18:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/07/22 09:37	09/07/22 18:03	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/07/22 09:37	09/07/22 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/07/22 09:37*	*09/07/22 18:03*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*09/07/22 09:37*	*09/07/22 18:03*	*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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/01/22 09:04	09/02/22 16:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/01/22 09:04	09/02/22 16:19	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-43 Lab Sample ID: 880-18627-11

Date Collected: 08/26/22 12:31 **Matrix: Solid**
Date Received: 08/29/22 16:20

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		09/01/22 09:04	09/02/22 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*09/01/22 09:04*	*09/02/22 16:19*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*09/01/22 09:04*	*09/02/22 16:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1220**		5.02		mg/Kg			09/06/22 10:14	1

Client Sample ID: C-44 Lab Sample ID: 880-18627-12

Date Collected: 08/26/22 12:34 **Matrix: Solid**
Date Received: 08/29/22 16:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/07/22 09:37	09/07/22 18:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/07/22 09:37	09/07/22 18:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/07/22 09:37	09/07/22 18:24	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		09/07/22 09:37	09/07/22 18:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/07/22 09:37	09/07/22 18:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/07/22 09:37	09/07/22 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/07/22 09:37*	*09/07/22 18:24*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/07/22 09:37*	*09/07/22 18:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/01/22 09:04	09/02/22 16:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/22 09:04	09/02/22 16:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/22 09:04	09/02/22 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*09/01/22 09:04*	*09/02/22 16:41*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*09/01/22 09:04*	*09/02/22 16:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**679**		5.01		mg/Kg			09/06/22 10:35	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-45
Lab Sample ID: 880-18627-13
Date Collected: 08/26/22 12:42 **Matrix: Solid**
Date Received: 08/29/22 16:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 18:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 18:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 18:44	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/07/22 09:37	09/07/22 18:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 18:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/07/22 09:37	09/07/22 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/07/22 09:37*	*09/07/22 18:44*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/07/22 09:37*	*09/07/22 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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/01/22 09:04	09/02/22 17:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/01/22 09:04	09/02/22 17:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/01/22 09:04	09/02/22 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*09/01/22 09:04*	*09/02/22 17:02*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*09/01/22 09:04*	*09/02/22 17:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1090**		4.97		mg/Kg			09/03/22 05:38	1

Client Sample ID: C-46
Lab Sample ID: 880-18627-14
Date Collected: 08/26/22 12:45 **Matrix: Solid**
Date Received: 08/29/22 16:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00250**		0.00200		mg/Kg		09/07/22 09:37	09/07/22 19:04	1
Toluene	**0.00273**		0.00200		mg/Kg		09/07/22 09:37	09/07/22 19:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 19:04	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/07/22 09:37	09/07/22 19:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 19:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/07/22 09:37	09/07/22 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*09/07/22 09:37*	*09/07/22 19:04*	*1*
1,4-Difluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*09/07/22 09:37*	*09/07/22 19:04*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-46 Lab Sample ID: 880-18627-14

Date Collected: 08/26/22 12:45 **Matrix: Solid**
Date Received: 08/29/22 16:20

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00523**		0.00400		mg/Kg			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/01/22 09:04	09/02/22 17:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/01/22 09:04	09/02/22 17:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/01/22 09:04	09/02/22 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*77*		*70 - 130*	*09/01/22 09:04*	*09/02/22 17:24*	*1*
o-Terphenyl (Surr)	*75*		*70 - 130*	*09/01/22 09:04*	*09/02/22 17:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**296**		4.95		mg/Kg			09/03/22 06:00	1

Client Sample ID: C-47 Lab Sample ID: 880-18627-15

Date Collected: 08/26/22 13:15 **Matrix: Solid**
Date Received: 08/29/22 16:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 19:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 19:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 19:25	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/07/22 09:37	09/07/22 19:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 19:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/07/22 09:37	09/07/22 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*09/07/22 09:37*	*09/07/22 19:25*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/07/22 09:37*	*09/07/22 19:25*	*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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/01/22 09:04	09/02/22 17:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/01/22 09:04	09/02/22 17:46	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-47 Lab Sample ID: 880-18627-15

Date Collected: 08/26/22 13:15 **Matrix: Solid**
Date Received: 08/29/22 16:20

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)	<49.8	U	49.8		mg/Kg		09/01/22 09:04	09/02/22 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*09/01/22 09:04*	*09/02/22 17:46*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*09/01/22 09:04*	*09/02/22 17:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**969**		5.03		mg/Kg			09/03/22 06:07	1

Client Sample ID: C-48 Lab Sample ID: 880-18627-16

Date Collected: 08/26/22 13:20 **Matrix: Solid**
Date Received: 08/29/22 16:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 19:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 19:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 19:45	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/07/22 09:37	09/07/22 19:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/07/22 09:37	09/07/22 19:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/07/22 09:37	09/07/22 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*09/07/22 09:37*	*09/07/22 19:45*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/07/22 09:37*	*09/07/22 19:45*	*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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/01/22 09:04	09/02/22 18:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/22 09:04	09/02/22 18:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/22 09:04	09/02/22 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*09/01/22 09:04*	*09/02/22 18:08*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*09/01/22 09:04*	*09/02/22 18:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2410**		25.3		mg/Kg			09/03/22 06:14	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Client Sample ID: C-49

Date Collected: 08/26/22 15:30
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-17
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.115		0.00202		mg/Kg		09/07/22 09:37	09/07/22 20:06	1
Toluene	0.0561		0.00202		mg/Kg		09/07/22 09:37	09/07/22 20:06	1
Ethylbenzene	0.0931		0.00202		mg/Kg		09/07/22 09:37	09/07/22 20:06	1
m,p-Xylenes	0.0652		0.00403		mg/Kg		09/07/22 09:37	09/07/22 20:06	1
o-Xylene	0.0364		0.00202		mg/Kg		09/07/22 09:37	09/07/22 20:06	1
Xylenes, Total	0.102		0.00403		mg/Kg		09/07/22 09:37	09/07/22 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*09/07/22 09:37*	*09/07/22 20:06*	*1*
1,4-Difluorobenzene (Surr)	*10*	*S1-*	*70 - 130*	*09/07/22 09:37*	*09/07/22 20:06*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.366		0.00403		mg/Kg			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 17:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 17:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*08/30/22 13:28*	*08/31/22 17:39*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*08/30/22 13:28*	*08/31/22 17:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		5.05		mg/Kg			09/03/22 06:21	1

Client Sample ID: C-50

Date Collected: 08/26/22 15:35
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-18
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 20:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 20:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 20:26	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/07/22 09:37	09/07/22 20:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 20:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/07/22 09:37	09/07/22 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*09/07/22 09:37*	*09/07/22 20:26*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*09/07/22 09:37*	*09/07/22 20:26*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-50 Lab Sample ID: 880-18627-18

Date Collected: 08/26/22 15:35 **Matrix: Solid**
Date Received: 08/29/22 16:20

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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 18:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 18:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*08/30/22 13:28*	*08/31/22 18:00*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*08/30/22 13:28*	*08/31/22 18:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1490**		25.0		mg/Kg			09/03/22 06:42	5

Client Sample ID: C-51 Lab Sample ID: 880-18627-19

Date Collected: 08/26/22 15:40 **Matrix: Solid**
Date Received: 08/29/22 16:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 20:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 20:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 20:47	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/07/22 09:37	09/07/22 20:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/07/22 09:37	09/07/22 20:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/07/22 09:37	09/07/22 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/07/22 09:37*	*09/07/22 20:47*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/07/22 09:37*	*09/07/22 20:47*	*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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 13:28	08/31/22 18:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 13:28	08/31/22 18:22	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-51 Lab Sample ID: 880-18627-19

Date Collected: 08/26/22 15:40 **Matrix: Solid**
Date Received: 08/29/22 16:20

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		08/30/22 13:28	08/31/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*08/30/22 13:28*	*08/31/22 18:22*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*08/30/22 13:28*	*08/31/22 18:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1260**		4.99		mg/Kg			09/03/22 06:50	1

Client Sample ID: C-52 Lab Sample ID: 880-18627-20

Date Collected: 08/26/22 15:45 **Matrix: Solid**
Date Received: 08/29/22 16:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/07/22 09:37	09/07/22 21:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/07/22 09:37	09/07/22 21:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/07/22 09:37	09/07/22 21:07	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		09/07/22 09:37	09/07/22 21:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/07/22 09:37	09/07/22 21:07	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/07/22 09:37	09/07/22 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*09/07/22 09:37*	*09/07/22 21:07*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/07/22 09:37*	*09/07/22 21:07*	*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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/30/22 13:28	08/31/22 18:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/30/22 13:28	08/31/22 18:43	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/30/22 13:28	08/31/22 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*08/30/22 13:28*	*08/31/22 18:43*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*08/30/22 13:28*	*08/31/22 18:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**291**		5.02		mg/Kg			09/03/22 06:57	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Client Sample ID: C-53

Lab Sample ID: 880-18627-21
Matrix: Solid
Date Collected: 08/26/22 15:48
Date Received: 08/29/22 16:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/07/22 08:42	09/08/22 06:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/07/22 08:42	09/08/22 06:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/07/22 08:42	09/08/22 06:01	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/07/22 08:42	09/08/22 06:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/07/22 08:42	09/08/22 06:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/07/22 08:42	09/08/22 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/07/22 08:42*	*09/08/22 06:01*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*09/07/22 08:42*	*09/08/22 06:01*	*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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 13:28	08/31/22 19:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 13:28	08/31/22 19:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 13:28	08/31/22 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*76*		*70 - 130*	*08/30/22 13:28*	*08/31/22 19:05*	*1*
o-Terphenyl (Surr)	*71*		*70 - 130*	*08/30/22 13:28*	*08/31/22 19:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1990**		24.9		mg/Kg			09/03/22 07:04	5

Client Sample ID: C-54

Lab Sample ID: 880-18627-22
Matrix: Solid
Date Collected: 08/26/22 15:50
Date Received: 08/29/22 16:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/07/22 08:42	09/08/22 06:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/22 08:42	09/08/22 06:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/22 08:42	09/08/22 06:22	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/07/22 08:42	09/08/22 06:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/22 08:42	09/08/22 06:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/07/22 08:42	09/08/22 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/07/22 08:42*	*09/08/22 06:22*	*1*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*09/07/22 08:42*	*09/08/22 06:22*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-54 Lab Sample ID: 880-18627-22

Date Collected: 08/26/22 15:50 **Matrix: Solid**
Date Received: 08/29/22 16:20

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			09/08/22 08:50	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			08/31/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 13:24	08/31/22 05:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 13:24	08/31/22 05:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 13:24	08/31/22 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*08/30/22 13:24*	*08/31/22 05:30*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*08/30/22 13:24*	*08/31/22 05:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1590		24.8		mg/Kg			09/03/22 07:11	5

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

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)
880-18627-1	C-33	86	118
880-18627-1 MS	C-33	95	103
880-18627-1 MSD	C-33	87	101
880-18627-2	C-34	90	104
880-18627-3	C-35	94	104
880-18627-4	C-36	90	102
880-18627-5	C-37	84	104
880-18627-6	C-38	87	106
880-18627-7	C-39	86	102
880-18627-8	C-40	88	103
880-18627-9	C-41	88	106
880-18627-10	C-42	88	104
880-18627-11	C-43	89	121
880-18627-12	C-44	90	105
880-18627-13	C-45	89	105
880-18627-14	C-46	83	133 S1+
880-18627-15	C-47	91	103
880-18627-16	C-48	94	112
880-18627-17	C-49	123	10 S1-
880-18627-18	C-50	82	122
880-18627-19	C-51	88	104
880-18627-20	C-52	93	107
880-18627-21	C-53	111	84
880-18627-22	C-54	95	68 S1-
LCS 880-33883/1-A	Lab Control Sample	134 S1+	104
LCS 880-33888/1-A	Lab Control Sample	85	100
LCSD 880-33883/2-A	Lab Control Sample Dup	124	95
LCSD 880-33888/2-A	Lab Control Sample Dup	84	106
MB 880-33854/5-A	Method Blank	102	93
MB 880-33883/5-A	Method Blank	104	91
MB 880-33888/5-A	Method Blank	81	118

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)
880-18627-1	C-33	124	114
880-18627-1 MS	C-33	83	78
880-18627-1 MSD	C-33	84	79
880-18627-2	C-34	104	98
880-18627-3	C-35	100	97
880-18627-4	C-36	122	112
880-18627-5	C-37	104	98
880-18627-6	C-38	101	94

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

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)										
880-18627-7	C-39	102	93										
880-18627-8	C-40	105	102										
880-18627-9	C-41	106	100										
880-18627-10	C-42	99	93										
880-18627-11	C-43	94	92										
880-18627-12	C-44	90	83										
880-18627-13	C-45	120	116										
880-18627-14	C-46	77	75										
880-18627-15	C-47	88	86										
880-18627-16	C-48	107	99										
880-18627-17	C-49	82	80										
880-18627-18	C-50	90	88										
880-18627-19	C-51	92	92										
880-18627-20	C-52	83	83										
880-18627-21	C-53	76	71										
880-18627-22	C-54	104	108										
LCS 880-33367/2-A	Lab Control Sample	91	100										
LCS 880-33369/2-A	Lab Control Sample	146 S1+	150 S1+										
LCS 880-33380/2-A	Lab Control Sample	151 S1+	140 S1+										
LCS 880-33502/2-A	Lab Control Sample	139 S1+	137 S1+										
LCSD 880-33367/3-A	Lab Control Sample Dup	86	94										
LCSD 880-33369/3-A	Lab Control Sample Dup	142 S1+	146 S1+										
LCSD 880-33380/3-A	Lab Control Sample Dup	155 S1+	141 S1+										
LCSD 880-33502/3-A	Lab Control Sample Dup	144 S1+	142 S1+										
MB 880-33367/1-A	Method Blank	90	88										
MB 880-33369/1-A	Method Blank	112	115										
MB 880-33380/1-A	Method Blank	101	98										
MB 880-33502/1-A	Method Blank	133 S1+	134 S1+										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33854/5-A
Matrix: Solid
Analysis Batch: 33881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33854

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:45	09/07/22 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:45	09/07/22 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:45	09/07/22 11:20	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/06/22 13:45	09/07/22 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/06/22 13:45	09/07/22 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/06/22 13:45	09/07/22 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*09/06/22 13:45*	*09/07/22 11:20*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*09/06/22 13:45*	*09/07/22 11:20*	*1*

Lab Sample ID: MB 880-33883/5-A
Matrix: Solid
Analysis Batch: 33881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33883

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/07/22 08:42	09/07/22 22:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/22 08:42	09/07/22 22:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/22 08:42	09/07/22 22:31	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/07/22 08:42	09/07/22 22:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/22 08:42	09/07/22 22:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/07/22 08:42	09/07/22 22:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/07/22 08:42*	*09/07/22 22:31*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/07/22 08:42*	*09/07/22 22:31*	*1*

Lab Sample ID: LCS 880-33883/1-A
Matrix: Solid
Analysis Batch: 33881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33883

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09104		mg/Kg		91	70 - 130		
Toluene			0.100	0.09203		mg/Kg		92	70 - 130		
Ethylbenzene			0.100	0.1020		mg/Kg		102	70 - 130		
m,p-Xylenes			0.200	0.2231		mg/Kg		112	70 - 130		
o-Xylene			0.100	0.1292		mg/Kg		129	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-33883/2-A
Matrix: Solid
Analysis Batch: 33881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33883

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08506		mg/Kg		85	70 - 130	7	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-33883/2-A
Matrix: Solid
Analysis Batch: 33881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33883

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08725		mg/Kg		87	70 - 130	5	35
Ethylbenzene			0.100	0.09769		mg/Kg		98	70 - 130	4	35
m,p-Xylenes			0.200	0.2037		mg/Kg		102	70 - 130	9	35
o-Xylene			0.100	0.1165		mg/Kg		116	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 880-33888/5-A
Matrix: Solid
Analysis Batch: 33897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33888

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 12:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 12:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 12:39	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/07/22 09:37	09/07/22 12:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 12:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/07/22 09:37	09/07/22 12:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*09/07/22 09:37*	*09/07/22 12:39*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*09/07/22 09:37*	*09/07/22 12:39*	*1*

Lab Sample ID: LCS 880-33888/1-A
Matrix: Solid
Analysis Batch: 33897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33888

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.1047		mg/Kg		105	70 - 130
Toluene			0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene			0.100	0.1024		mg/Kg		102	70 - 130
m,p-Xylenes			0.200	0.1855		mg/Kg		93	70 - 130
o-Xylene			0.100	0.09380		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-33888/2-A
Matrix: Solid
Analysis Batch: 33897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33888

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1136		mg/Kg		114	70 - 130	8	35
Toluene			0.100	0.1045		mg/Kg		104	70 - 130	1	35
Ethylbenzene			0.100	0.1013		mg/Kg		101	70 - 130	1	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-33888/2-A
Matrix: Solid
Analysis Batch: 33897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33888

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			0.200	0.1830		mg/Kg		92	70 - 130	1	35
o-Xylene			0.100	0.09338		mg/Kg		93	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-18627-1 MS
Matrix: Solid
Analysis Batch: 33897

Client Sample ID: C-33
Prep Type: Total/NA
Prep Batch: 33888

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.09784		mg/Kg		96	70 - 130
Toluene	<0.00199	U	0.101	0.09882		mg/Kg		98	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.09544		mg/Kg		94	70 - 130
m,p-Xylenes	<0.00398	U	0.202	0.1682		mg/Kg		82	70 - 130
o-Xylene	<0.00199	U	0.101	0.08628		mg/Kg		85	70 - 130

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

Lab Sample ID: 880-18627-1 MSD
Matrix: Solid
Analysis Batch: 33897

Client Sample ID: C-33
Prep Type: Total/NA
Prep Batch: 33888

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1041		mg/Kg		102	70 - 130	6	35
Toluene	<0.00199	U	0.101	0.09401		mg/Kg		93	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.101	0.09263		mg/Kg		92	70 - 130	3	35
m,p-Xylenes	<0.00398	U	0.202	0.1665		mg/Kg		82	70 - 130	1	35
o-Xylene	<0.00199	U	0.101	0.08585		mg/Kg		85	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-33367/1-A
Matrix: Solid
Analysis Batch: 33309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33367

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		08/30/22 13:24	08/30/22 20:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 13:24	08/30/22 20:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 13:24	08/30/22 20:50	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130	08/30/22 13:24	08/30/22 20:50	1
o-Terphenyl (Surr)	88		70 - 130	08/30/22 13:24	08/30/22 20:50	1

Lab Sample ID: LCS 880-33367/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33309 — **Prep Batch: 33367**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	988.7		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	781.6		mg/Kg		78	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	91		70 - 130
o-Terphenyl (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-33367/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33309 — **Prep Batch: 33367**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	966.1		mg/Kg		97	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	775.7		mg/Kg		78	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	86		70 - 130
o-Terphenyl (Surr)	94		70 - 130

Lab Sample ID: MB 880-33369/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33405 — **Prep Batch: 33369**

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		08/30/22 13:28	08/31/22 10:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 10:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 13:28	08/31/22 10:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	08/30/22 13:28	08/31/22 10:04	1
o-Terphenyl (Surr)	115		70 - 130	08/30/22 13:28	08/31/22 10:04	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-33369/2-A
Matrix: Solid
Analysis Batch: 33405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33369

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	800.4		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	866.9		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*146*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*150*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-33369/3-A
Matrix: Solid
Analysis Batch: 33405

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33369

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	801.4		mg/Kg		80	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	845.2		mg/Kg		85	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*142*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*146*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-33380/1-A
Matrix: Solid
Analysis Batch: 33403

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33380

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		08/30/22 14:56	08/31/22 19:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 14:56	08/31/22 19:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 14:56	08/31/22 19:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*08/30/22 14:56*	*08/31/22 19:49*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*08/30/22 14:56*	*08/31/22 19:49*	*1*

Lab Sample ID: LCS 880-33380/2-A
Matrix: Solid
Analysis Batch: 33403

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33380

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	808.5		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	899.9		mg/Kg		90	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-33380/2-A
Matrix: Solid
Analysis Batch: 33403

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33380

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	151	S1+	70 - 130
o-Terphenyl (Surr)	140	S1+	70 - 130

Lab Sample ID: LCSD 880-33380/3-A
Matrix: Solid
Analysis Batch: 33403

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33380

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	822.5		mg/Kg		82	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	890.5		mg/Kg		89	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	155	S1+	70 - 130
o-Terphenyl (Surr)	141	S1+	70 - 130

Lab Sample ID: 880-18627-1 MS
Matrix: Solid
Analysis Batch: 33403

Client Sample ID: C-33
Prep Type: Total/NA
Prep Batch: 33380

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	760.9		mg/Kg		73	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	924.2		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	83		70 - 130
o-Terphenyl (Surr)	78		70 - 130

Lab Sample ID: 880-18627-1 MSD
Matrix: Solid
Analysis Batch: 33403

Client Sample ID: C-33
Prep Type: Total/NA
Prep Batch: 33380

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	998	739.6		mg/Kg		71	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	940.8		mg/Kg		93	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	84		70 - 130
o-Terphenyl (Surr)	79		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-33502/1-A
Matrix: Solid
Analysis Batch: 33584

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33502

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		09/01/22 09:04	09/02/22 09:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/22 09:04	09/02/22 09:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/22 09:04	09/02/22 09:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*	*09/01/22 09:04*	*09/02/22 09:30*	*1*
o-Terphenyl (Surr)	*134*	*S1+*	*70 - 130*	*09/01/22 09:04*	*09/02/22 09:30*	*1*

Lab Sample ID: LCS 880-33502/2-A
Matrix: Solid
Analysis Batch: 33584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33502

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	801.9		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	877.6		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*139*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*137*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-33502/3-A
Matrix: Solid
Analysis Batch: 33584

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33502

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	868.7		mg/Kg		87	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	912.6		mg/Kg		91	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*144*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33459/1-A
Matrix: Solid
Analysis Batch: 33550

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			09/03/22 05:17	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-33459/2-A
Matrix: Solid
Analysis Batch: 33550

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	260.5		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-33459/3-A
Matrix: Solid
Analysis Batch: 33550

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	260.7		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-18627-13 MS
Matrix: Solid
Analysis Batch: 33550

Client Sample ID: C-45
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1090		249	1293	4	mg/Kg		81	90 - 110		

Lab Sample ID: 880-18627-13 MSD
Matrix: Solid
Analysis Batch: 33550

Client Sample ID: C-45
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1090		249	1296	4	mg/Kg		82	90 - 110	0	20

Lab Sample ID: MB 880-33418/1-A
Matrix: Solid
Analysis Batch: 33666

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			09/06/22 08:12	1

Lab Sample ID: LCS 880-33418/2-A
Matrix: Solid
Analysis Batch: 33666

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	273.3		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-33418/3-A
Matrix: Solid
Analysis Batch: 33666

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	274.4		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-18627-1 MS
Matrix: Solid
Analysis Batch: 33666

Client Sample ID: C-33
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	935		250	1171		mg/Kg		95	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-18627-1 MSD
Matrix: Solid
Analysis Batch: 33666

Client Sample ID: C-33
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	935		250	1170		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-18627-11 MS
Matrix: Solid
Analysis Batch: 33666

Client Sample ID: C-43
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1220		251	1451	4	mg/Kg		93	90 - 110

Lab Sample ID: 880-18627-11 MSD
Matrix: Solid
Analysis Batch: 33666

Client Sample ID: C-43
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1220		251	1451	4	mg/Kg		93	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

GC VOA

Prep Batch: 33854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33854/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 33881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-21	C-53	Total/NA	Solid	8021B	33883
880-18627-22	C-54	Total/NA	Solid	8021B	33883
MB 880-33854/5-A	Method Blank	Total/NA	Solid	8021B	33854
MB 880-33883/5-A	Method Blank	Total/NA	Solid	8021B	33883
LCS 880-33883/1-A	Lab Control Sample	Total/NA	Solid	8021B	33883
LCSD 880-33883/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33883

Prep Batch: 33883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-21	C-53	Total/NA	Solid	5035	
880-18627-22	C-54	Total/NA	Solid	5035	
MB 880-33883/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33883/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33883/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 33888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-1	C-33	Total/NA	Solid	5035	
880-18627-2	C-34	Total/NA	Solid	5035	
880-18627-3	C-35	Total/NA	Solid	5035	
880-18627-4	C-36	Total/NA	Solid	5035	
880-18627-5	C-37	Total/NA	Solid	5035	
880-18627-6	C-38	Total/NA	Solid	5035	
880-18627-7	C-39	Total/NA	Solid	5035	
880-18627-8	C-40	Total/NA	Solid	5035	
880-18627-9	C-41	Total/NA	Solid	5035	
880-18627-10	C-42	Total/NA	Solid	5035	
880-18627-11	C-43	Total/NA	Solid	5035	
880-18627-12	C-44	Total/NA	Solid	5035	
880-18627-13	C-45	Total/NA	Solid	5035	
880-18627-14	C-46	Total/NA	Solid	5035	
880-18627-15	C-47	Total/NA	Solid	5035	
880-18627-16	C-48	Total/NA	Solid	5035	
880-18627-17	C-49	Total/NA	Solid	5035	
880-18627-18	C-50	Total/NA	Solid	5035	
880-18627-19	C-51	Total/NA	Solid	5035	
880-18627-20	C-52	Total/NA	Solid	5035	
MB 880-33888/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33888/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33888/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18627-1 MS	C-33	Total/NA	Solid	5035	
880-18627-1 MSD	C-33	Total/NA	Solid	5035	

Analysis Batch: 33897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-1	C-33	Total/NA	Solid	8021B	33888
880-18627-2	C-34	Total/NA	Solid	8021B	33888

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

GC VOA (Continued)

Analysis Batch: 33897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-3	C-35	Total/NA	Solid	8021B	33888
880-18627-4	C-36	Total/NA	Solid	8021B	33888
880-18627-5	C-37	Total/NA	Solid	8021B	33888
880-18627-6	C-38	Total/NA	Solid	8021B	33888
880-18627-7	C-39	Total/NA	Solid	8021B	33888
880-18627-8	C-40	Total/NA	Solid	8021B	33888
880-18627-9	C-41	Total/NA	Solid	8021B	33888
880-18627-10	C-42	Total/NA	Solid	8021B	33888
880-18627-11	C-43	Total/NA	Solid	8021B	33888
880-18627-12	C-44	Total/NA	Solid	8021B	33888
880-18627-13	C-45	Total/NA	Solid	8021B	33888
880-18627-14	C-46	Total/NA	Solid	8021B	33888
880-18627-15	C-47	Total/NA	Solid	8021B	33888
880-18627-16	C-48	Total/NA	Solid	8021B	33888
880-18627-17	C-49	Total/NA	Solid	8021B	33888
880-18627-18	C-50	Total/NA	Solid	8021B	33888
880-18627-19	C-51	Total/NA	Solid	8021B	33888
880-18627-20	C-52	Total/NA	Solid	8021B	33888
MB 880-33888/5-A	Method Blank	Total/NA	Solid	8021B	33888
LCS 880-33888/1-A	Lab Control Sample	Total/NA	Solid	8021B	33888
LCSD 880-33888/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33888
880-18627-1 MS	C-33	Total/NA	Solid	8021B	33888
880-18627-1 MSD	C-33	Total/NA	Solid	8021B	33888

Analysis Batch: 33981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-1	C-33	Total/NA	Solid	Total BTEX	
880-18627-2	C-34	Total/NA	Solid	Total BTEX	
880-18627-3	C-35	Total/NA	Solid	Total BTEX	
880-18627-4	C-36	Total/NA	Solid	Total BTEX	
880-18627-5	C-37	Total/NA	Solid	Total BTEX	
880-18627-6	C-38	Total/NA	Solid	Total BTEX	
880-18627-7	C-39	Total/NA	Solid	Total BTEX	
880-18627-8	C-40	Total/NA	Solid	Total BTEX	
880-18627-9	C-41	Total/NA	Solid	Total BTEX	
880-18627-10	C-42	Total/NA	Solid	Total BTEX	
880-18627-11	C-43	Total/NA	Solid	Total BTEX	
880-18627-12	C-44	Total/NA	Solid	Total BTEX	
880-18627-13	C-45	Total/NA	Solid	Total BTEX	
880-18627-14	C-46	Total/NA	Solid	Total BTEX	
880-18627-15	C-47	Total/NA	Solid	Total BTEX	
880-18627-16	C-48	Total/NA	Solid	Total BTEX	
880-18627-17	C-49	Total/NA	Solid	Total BTEX	
880-18627-18	C-50	Total/NA	Solid	Total BTEX	
880-18627-19	C-51	Total/NA	Solid	Total BTEX	
880-18627-20	C-52	Total/NA	Solid	Total BTEX	
880-18627-21	C-53	Total/NA	Solid	Total BTEX	
880-18627-22	C-54	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

GC Semi VOA

Analysis Batch: 33309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-22	C-54	Total/NA	Solid	8015B NM	33367
MB 880-33367/1-A	Method Blank	Total/NA	Solid	8015B NM	33367
LCS 880-33367/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33367
LCSD 880-33367/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33367

Prep Batch: 33367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-22	C-54	Total/NA	Solid	8015NM Prep	
MB 880-33367/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33367/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33367/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 33369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-17	C-49	Total/NA	Solid	8015NM Prep	
880-18627-18	C-50	Total/NA	Solid	8015NM Prep	
880-18627-19	C-51	Total/NA	Solid	8015NM Prep	
880-18627-20	C-52	Total/NA	Solid	8015NM Prep	
880-18627-21	C-53	Total/NA	Solid	8015NM Prep	
MB 880-33369/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33369/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 33380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-1	C-33	Total/NA	Solid	8015NM Prep	
880-18627-2	C-34	Total/NA	Solid	8015NM Prep	
880-18627-3	C-35	Total/NA	Solid	8015NM Prep	
880-18627-4	C-36	Total/NA	Solid	8015NM Prep	
880-18627-5	C-37	Total/NA	Solid	8015NM Prep	
880-18627-6	C-38	Total/NA	Solid	8015NM Prep	
880-18627-7	C-39	Total/NA	Solid	8015NM Prep	
MB 880-33380/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33380/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33380/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18627-1 MS	C-33	Total/NA	Solid	8015NM Prep	
880-18627-1 MSD	C-33	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-1	C-33	Total/NA	Solid	8015B NM	33380
880-18627-2	C-34	Total/NA	Solid	8015B NM	33380
880-18627-3	C-35	Total/NA	Solid	8015B NM	33380
880-18627-4	C-36	Total/NA	Solid	8015B NM	33380
880-18627-5	C-37	Total/NA	Solid	8015B NM	33380
880-18627-6	C-38	Total/NA	Solid	8015B NM	33380
880-18627-7	C-39	Total/NA	Solid	8015B NM	33380
MB 880-33380/1-A	Method Blank	Total/NA	Solid	8015B NM	33380
LCS 880-33380/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33380
LCSD 880-33380/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33380
880-18627-1 MS	C-33	Total/NA	Solid	8015B NM	33380

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 33403 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-1 MSD	C-33	Total/NA	Solid	8015B NM	33380

Analysis Batch: 33405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-17	C-49	Total/NA	Solid	8015B NM	33369
880-18627-18	C-50	Total/NA	Solid	8015B NM	33369
880-18627-19	C-51	Total/NA	Solid	8015B NM	33369
880-18627-20	C-52	Total/NA	Solid	8015B NM	33369
880-18627-21	C-53	Total/NA	Solid	8015B NM	33369
MB 880-33369/1-A	Method Blank	Total/NA	Solid	8015B NM	33369
LCS 880-33369/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33369
LCSD 880-33369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33369

Analysis Batch: 33425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-1	C-33	Total/NA	Solid	8015 NM	
880-18627-2	C-34	Total/NA	Solid	8015 NM	
880-18627-3	C-35	Total/NA	Solid	8015 NM	
880-18627-4	C-36	Total/NA	Solid	8015 NM	
880-18627-5	C-37	Total/NA	Solid	8015 NM	
880-18627-6	C-38	Total/NA	Solid	8015 NM	
880-18627-7	C-39	Total/NA	Solid	8015 NM	
880-18627-8	C-40	Total/NA	Solid	8015 NM	
880-18627-9	C-41	Total/NA	Solid	8015 NM	
880-18627-10	C-42	Total/NA	Solid	8015 NM	
880-18627-11	C-43	Total/NA	Solid	8015 NM	
880-18627-12	C-44	Total/NA	Solid	8015 NM	
880-18627-13	C-45	Total/NA	Solid	8015 NM	
880-18627-14	C-46	Total/NA	Solid	8015 NM	
880-18627-15	C-47	Total/NA	Solid	8015 NM	
880-18627-16	C-48	Total/NA	Solid	8015 NM	
880-18627-17	C-49	Total/NA	Solid	8015 NM	
880-18627-18	C-50	Total/NA	Solid	8015 NM	
880-18627-19	C-51	Total/NA	Solid	8015 NM	
880-18627-20	C-52	Total/NA	Solid	8015 NM	
880-18627-21	C-53	Total/NA	Solid	8015 NM	
880-18627-22	C-54	Total/NA	Solid	8015 NM	

Prep Batch: 33502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-8	C-40	Total/NA	Solid	8015NM Prep	
880-18627-9	C-41	Total/NA	Solid	8015NM Prep	
880-18627-10	C-42	Total/NA	Solid	8015NM Prep	
880-18627-11	C-43	Total/NA	Solid	8015NM Prep	
880-18627-12	C-44	Total/NA	Solid	8015NM Prep	
880-18627-13	C-45	Total/NA	Solid	8015NM Prep	
880-18627-14	C-46	Total/NA	Solid	8015NM Prep	
880-18627-15	C-47	Total/NA	Solid	8015NM Prep	
880-18627-16	C-48	Total/NA	Solid	8015NM Prep	
MB 880-33502/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33502/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Prep Batch: 33502 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-33502/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-8	C-40	Total/NA	Solid	8015B NM	33502
880-18627-9	C-41	Total/NA	Solid	8015B NM	33502
880-18627-10	C-42	Total/NA	Solid	8015B NM	33502
880-18627-11	C-43	Total/NA	Solid	8015B NM	33502
880-18627-12	C-44	Total/NA	Solid	8015B NM	33502
880-18627-13	C-45	Total/NA	Solid	8015B NM	33502
880-18627-14	C-46	Total/NA	Solid	8015B NM	33502
880-18627-15	C-47	Total/NA	Solid	8015B NM	33502
880-18627-16	C-48	Total/NA	Solid	8015B NM	33502
MB 880-33502/1-A	Method Blank	Total/NA	Solid	8015B NM	33502
LCS 880-33502/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33502
LCSD 880-33502/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33502

HPLC/IC

Leach Batch: 33418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-1	C-33	Soluble	Solid	DI Leach	
880-18627-2	C-34	Soluble	Solid	DI Leach	
880-18627-3	C-35	Soluble	Solid	DI Leach	
880-18627-4	C-36	Soluble	Solid	DI Leach	
880-18627-5	C-37	Soluble	Solid	DI Leach	
880-18627-6	C-38	Soluble	Solid	DI Leach	
880-18627-7	C-39	Soluble	Solid	DI Leach	
880-18627-8	C-40	Soluble	Solid	DI Leach	
880-18627-9	C-41	Soluble	Solid	DI Leach	
880-18627-10	C-42	Soluble	Solid	DI Leach	
880-18627-11	C-43	Soluble	Solid	DI Leach	
880-18627-12	C-44	Soluble	Solid	DI Leach	
MB 880-33418/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33418/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33418/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18627-1 MS	C-33	Soluble	Solid	DI Leach	
880-18627-1 MSD	C-33	Soluble	Solid	DI Leach	
880-18627-11 MS	C-43	Soluble	Solid	DI Leach	
880-18627-11 MSD	C-43	Soluble	Solid	DI Leach	

Leach Batch: 33459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-13	C-45	Soluble	Solid	DI Leach	
880-18627-14	C-46	Soluble	Solid	DI Leach	
880-18627-15	C-47	Soluble	Solid	DI Leach	
880-18627-16	C-48	Soluble	Solid	DI Leach	
880-18627-17	C-49	Soluble	Solid	DI Leach	
880-18627-18	C-50	Soluble	Solid	DI Leach	
880-18627-19	C-51	Soluble	Solid	DI Leach	
880-18627-20	C-52	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

HPLC/IC (Continued)

Leach Batch: 33459 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-21	C-53	Soluble	Solid	DI Leach	
880-18627-22	C-54	Soluble	Solid	DI Leach	
MB 880-33459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33459/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18627-13 MS	C-45	Soluble	Solid	DI Leach	
880-18627-13 MSD	C-45	Soluble	Solid	DI Leach	

Analysis Batch: 33550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-13	C-45	Soluble	Solid	300.0	33459
880-18627-14	C-46	Soluble	Solid	300.0	33459
880-18627-15	C-47	Soluble	Solid	300.0	33459
880-18627-16	C-48	Soluble	Solid	300.0	33459
880-18627-17	C-49	Soluble	Solid	300.0	33459
880-18627-18	C-50	Soluble	Solid	300.0	33459
880-18627-19	C-51	Soluble	Solid	300.0	33459
880-18627-20	C-52	Soluble	Solid	300.0	33459
880-18627-21	C-53	Soluble	Solid	300.0	33459
880-18627-22	C-54	Soluble	Solid	300.0	33459
MB 880-33459/1-A	Method Blank	Soluble	Solid	300.0	33459
LCS 880-33459/2-A	Lab Control Sample	Soluble	Solid	300.0	33459
LCSD 880-33459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33459
880-18627-13 MS	C-45	Soluble	Solid	300.0	33459
880-18627-13 MSD	C-45	Soluble	Solid	300.0	33459

Analysis Batch: 33666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18627-1	C-33	Soluble	Solid	300.0	33418
880-18627-2	C-34	Soluble	Solid	300.0	33418
880-18627-3	C-35	Soluble	Solid	300.0	33418
880-18627-4	C-36	Soluble	Solid	300.0	33418
880-18627-5	C-37	Soluble	Solid	300.0	33418
880-18627-6	C-38	Soluble	Solid	300.0	33418
880-18627-7	C-39	Soluble	Solid	300.0	33418
880-18627-8	C-40	Soluble	Solid	300.0	33418
880-18627-9	C-41	Soluble	Solid	300.0	33418
880-18627-10	C-42	Soluble	Solid	300.0	33418
880-18627-11	C-43	Soluble	Solid	300.0	33418
880-18627-12	C-44	Soluble	Solid	300.0	33418
MB 880-33418/1-A	Method Blank	Soluble	Solid	300.0	33418
LCS 880-33418/2-A	Lab Control Sample	Soluble	Solid	300.0	33418
LCSD 880-33418/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33418
880-18627-1 MS	C-33	Soluble	Solid	300.0	33418
880-18627-1 MSD	C-33	Soluble	Solid	300.0	33418
880-18627-11 MS	C-43	Soluble	Solid	300.0	33418
880-18627-11 MSD	C-43	Soluble	Solid	300.0	33418

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Client Sample ID: C-33

Lab Sample ID: 880-18627-1
Matrix: Solid
Date Collected: 08/26/22 12:00
Date Received: 08/29/22 16:20

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	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 13:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33380	08/30/22 14:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33403	08/31/22 20:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33418	08/31/22 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33666	09/06/22 08:34	SMC	EET MID

Client Sample ID: C-34

Lab Sample ID: 880-18627-2
Matrix: Solid
Date Collected: 08/26/22 12:02
Date Received: 08/29/22 16:20

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	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 13:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33380	08/30/22 14:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33403	08/31/22 21:59	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33418	08/31/22 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33666	09/06/22 08:55	SMC	EET MID

Client Sample ID: C-35

Lab Sample ID: 880-18627-3
Matrix: Solid
Date Collected: 08/26/22 12:04
Date Received: 08/29/22 16:20

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	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 13:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33380	08/30/22 14:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33403	08/31/22 22:20	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33418	08/31/22 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33666	09/06/22 09:02	SMC	EET MID

Client Sample ID: C-36

Lab Sample ID: 880-18627-4
Matrix: Solid
Date Collected: 08/26/22 12:07
Date Received: 08/29/22 16:20

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	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 14:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Client Sample ID: C-36

Date Collected: 08/26/22 12:07
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-4
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			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33380	08/30/22 14:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33403	08/31/22 22:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33418	08/31/22 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33666	09/06/22 09:09	SMC	EET MID

Client Sample ID: C-37

Date Collected: 08/26/22 12:11
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 14:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33380	08/30/22 14:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33403	08/31/22 23:04	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33418	08/31/22 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33666	09/06/22 09:16	SMC	EET MID

Client Sample ID: C-38

Date Collected: 08/26/22 12:15
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 14:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33380	08/30/22 14:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33403	08/31/22 23:26	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	33418	08/31/22 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33666	09/06/22 09:38	SMC	EET MID

Client Sample ID: C-39

Date Collected: 08/26/22 12:18
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 15:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33380	08/30/22 14:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33403	08/31/22 23:47	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Client Sample ID: C-39

Date Collected: 08/26/22 12:18
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	33418	08/31/22 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33666	09/06/22 09:45	SMC	EET MID

Client Sample ID: C-40

Date Collected: 08/26/22 12:21
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 15:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 15:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33418	08/31/22 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33666	09/06/22 09:52	SMC	EET MID

Client Sample ID: C-41

Date Collected: 08/26/22 12:25
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 15:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 15:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33418	08/31/22 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33666	09/06/22 09:59	SMC	EET MID

Client Sample ID: C-42

Date Collected: 08/26/22 12:28
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 16:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 15:58	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33418	08/31/22 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33666	09/06/22 10:07	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Client Sample ID: C-43

Date Collected: 08/26/22 12:31
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 18:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 16:19	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33418	08/31/22 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33666	09/06/22 10:14	SMC	EET MID

Client Sample ID: C-44

Date Collected: 08/26/22 12:34
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 18:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 16:41	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33418	08/31/22 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33666	09/06/22 10:35	SMC	EET MID

Client Sample ID: C-45

Date Collected: 08/26/22 12:42
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 18:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 17:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33459	08/31/22 13:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33550	09/03/22 05:38	SMC	EET MID

Client Sample ID: C-46

Date Collected: 08/26/22 12:45
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 19:04	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Client Sample ID: C-46

Date Collected: 08/26/22 12:45
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 17:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33459	08/31/22 13:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33550	09/03/22 06:00	SMC	EET MID

Client Sample ID: C-47

Date Collected: 08/26/22 13:15
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 19:25	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 17:46	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	33459	08/31/22 13:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33550	09/03/22 06:07	SMC	EET MID

Client Sample ID: C-48

Date Collected: 08/26/22 13:20
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 19:45	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 18:08	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	33459	08/31/22 13:57	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33550	09/03/22 06:14	SMC	EET MID

Client Sample ID: C-49

Date Collected: 08/26/22 15:30
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 20:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33369	08/30/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33405	08/31/22 17:39	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Client Sample ID: C-49

Date Collected: 08/26/22 15:30
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	33459	08/31/22 13:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33550	09/03/22 06:21	SMC	EET MID

Client Sample ID: C-50

Date Collected: 08/26/22 15:35
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 20:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33369	08/30/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33405	08/31/22 18:00	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33459	08/31/22 13:57	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33550	09/03/22 06:42	SMC	EET MID

Client Sample ID: C-51

Date Collected: 08/26/22 15:40
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 20:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33369	08/30/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33405	08/31/22 18:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33459	08/31/22 13:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33550	09/03/22 06:50	SMC	EET MID

Client Sample ID: C-52

Date Collected: 08/26/22 15:45
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33888	09/07/22 09:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/07/22 21:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33369	08/30/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33405	08/31/22 18:43	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33459	08/31/22 13:57	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33550	09/03/22 06:57	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Client Sample ID: C-53

Date Collected: 08/26/22 15:48
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33883	09/07/22 08:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33881	09/08/22 06:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33369	08/30/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33405	08/31/22 19:05	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33459	08/31/22 13:57	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33550	09/03/22 07:04	SMC	EET MID

Client Sample ID: C-54

Date Collected: 08/26/22 15:50
Date Received: 08/29/22 16:20

Lab Sample ID: 880-18627-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33883	09/07/22 08:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33881	09/08/22 06:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33981	09/08/22 08:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33425	08/31/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33367	08/30/22 13:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33309	08/31/22 05:30	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33459	08/31/22 13:57	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33550	09/03/22 07:11	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

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	T104704400-22-24	06-30-23

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. Job ID: 880-18627-1
Project/Site: Limestone 1H SDG: 21-0100-24

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18627-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18627-1	C-33	Solid	08/26/22 12:00	08/29/22 16:20
880-18627-2	C-34	Solid	08/26/22 12:02	08/29/22 16:20
880-18627-3	C-35	Solid	08/26/22 12:04	08/29/22 16:20
880-18627-4	C-36	Solid	08/26/22 12:07	08/29/22 16:20
880-18627-5	C-37	Solid	08/26/22 12:11	08/29/22 16:20
880-18627-6	C-38	Solid	08/26/22 12:15	08/29/22 16:20
880-18627-7	C-39	Solid	08/26/22 12:18	08/29/22 16:20
880-18627-8	C-40	Solid	08/26/22 12:21	08/29/22 16:20
880-18627-9	C-41	Solid	08/26/22 12:25	08/29/22 16:20
880-18627-10	C-42	Solid	08/26/22 12:28	08/29/22 16:20
880-18627-11	C-43	Solid	08/26/22 12:31	08/29/22 16:20
880-18627-12	C-44	Solid	08/26/22 12:34	08/29/22 16:20
880-18627-13	C-45	Solid	08/26/22 12:42	08/29/22 16:20
880-18627-14	C-46	Solid	08/26/22 12:45	08/29/22 16:20
880-18627-15	C-47	Solid	08/26/22 13:15	08/29/22 16:20
880-18627-16	C-48	Solid	08/26/22 13:20	08/29/22 16:20
880-18627-17	C-49	Solid	08/26/22 15:30	08/29/22 16:20
880-18627-18	C-50	Solid	08/26/22 15:35	08/29/22 16:20
880-18627-19	C-51	Solid	08/26/22 15:40	08/29/22 16:20
880-18627-20	C-52	Solid	08/26/22 15:45	08/29/22 16:20
880-18627-21	C-53	Solid	08/26/22 15:48	08/29/22 16:20
880-18627-22	C-54	Solid	08/26/22 15:50	08/29/22 16:20

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186627

No. 2673

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

DATE: 8/29/2022 PAGE 1 OF 2

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT # 21-0100-24 COLLECTOR: AM

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	TOTAL METALS (RCRA) ☐	Semi-VOC ☐	LEAD - TOTAL ☐	D W 200.8 ☐	OTHER LIST ☐	RCI ☐	TOX ☐	TCLP ☐	TDS ☐	TSS ☐	FLASHPOINT ☐	pH ☐	% MOISTURE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	CYANIDE ☐	CHLORIDES ☒	PECHLORATE ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-33		8/26/22	1200	S	1				X		X				X	X	X																								X				
C-34			1202																																										
C-35			1204																																										
C-36			1207																																									
C-37			1211																																									
C-38			1215																																									
C-39			1218																																									
C-40			1221																																									
C-41			1225																																									
C-42			1228																																									
C-43			1231																																									
C-44			1234																																									
C-45			1242																																									
C-46			1245																																									
C-47			1315																																									
TOTAL																																											

880-18627 Chain of Custody

RELINQUISHED BY (Signature) DATE/TIME 8/29/22 1610 RECEIVED BY (Signature)

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 1.3/1.5 THERM# IR8.20
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

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Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

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180627

No. 2674

CHAIN-OF-CUSTODY

9/8/2022

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE. 8/29/2022 PAGE 2 OF 2

PO#: LAB WORK ORDER#

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT #. 21-0100-24 COLLECTOR: PM

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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

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

ANALYSES: BTEX ☒ MTBE ☐ | TPH 418.1 ☐ | TPH 1005 ☐ | TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ | HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ | TCLP VOC ☐ | TCLP - PEST ☐ | HERB ☐ | Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ | OTHER LIST ☐ | LEAD - TOTAL ☐ | D W 200 8 ☐ | TCLP ☐ | RCI ☐ | TOX ☐ | FLASHPOINT ☐ | TDS ☐ | TSS ☐ | % MOISTURE ☐ | CYANIDE ☐ | pH ☐ | HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ | PECHLORATE ☐ | CHLORIDE ☐ | ANIONS ☐ | ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-48		8/26/22	1320	S	1				X		X	X
C-49			1530									
C-50			1535									
C-51			1540									
C-52			1545									
C-53			1548									
C-54			1550						X		X	X
TOTAL												

Loc: 880
18627

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	8/29/22 1620	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 1.3/1.5 THERM# IR8.20
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-18627-1
SDG Number: 21-0100-24

Login Number: 18627
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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-18785-1
Laboratory Sample Delivery Group: 21-0100-24
Client Project/Site: Limestone 1H

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

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
9/12/2022 5:30:24 PM

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
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: Limestone 1H

Laboratory Job ID: 880-18785-1
SDG: 21-0100-24

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Eurofins Midland
9/12/2022

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-18785-1
Project/Site: Limestone 1H SDG: 21-0100-24

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

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high 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.
¤	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: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Job ID: 880-18785-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-18785-1

Receipt
The samples were received on 9/2/2022 8:21 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 2.5º C.

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34086 and analytical batch 880-34055 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34115 and analytical batch 880-34150 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: Surrogate recovery for the following sample was outside control limits: (CCV 880-33684/3). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33656/2-A) and (LCSD 880-33656/3-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-33684/19). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-33684/30). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33652/2-A) and (LCSD 880-33652/3-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-33623 and analytical batch 880-33680 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.

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-33620 and analytical batch 880-34078 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.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-33692 and analytical batch 880-34079 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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Job ID: 880-18785-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-55

Date Collected: 08/29/22 14:00
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1 F2	0.00202		mg/Kg		09/09/22 10:56	09/09/22 22:30	1
Toluene	<0.00202	U F1 F2	0.00202		mg/Kg		09/09/22 10:56	09/09/22 22:30	1
Ethylbenzene	<0.00202	U F1 F2	0.00202		mg/Kg		09/09/22 10:56	09/09/22 22:30	1
m,p-Xylenes	<0.00403	U F1 F2	0.00403		mg/Kg		09/09/22 10:56	09/09/22 22:30	1
o-Xylene	<0.00202	U F1 F2	0.00202		mg/Kg		09/09/22 10:56	09/09/22 22:30	1
Xylenes, Total	<0.00403	U F1 F2	0.00403		mg/Kg		09/09/22 10:56	09/09/22 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*09/09/22 10:56*	*09/09/22 22:30*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*09/09/22 10:56*	*09/09/22 22:30*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 13:37	09/02/22 20:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/02/22 20:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/02/22 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*09/02/22 13:37*	*09/02/22 20:17*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*09/02/22 13:37*	*09/02/22 20:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.6**		4.99		mg/Kg			09/09/22 12:22	1

Client Sample ID: C-56

Date Collected: 08/29/22 14:04
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/09/22 22:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/09/22 22:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/09/22 22:51	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/09/22 10:56	09/09/22 22:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/09/22 22:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/09/22 10:56	09/09/22 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*09/09/22 10:56*	*09/09/22 22:51*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*09/09/22 10:56*	*09/09/22 22:51*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-56

Date Collected: 08/29/22 14:04
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-2
Matrix: Solid

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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 13:37	09/02/22 21:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/02/22 21:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/02/22 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*09/02/22 13:37*	*09/02/22 21:22*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*09/02/22 13:37*	*09/02/22 21:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.7**		5.02		mg/Kg			09/09/22 12:37	1

Client Sample ID: C-57

Date Collected: 08/29/22 14:06
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/09/22 10:56	09/09/22 23:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/09/22 10:56	09/09/22 23:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/09/22 10:56	09/09/22 23:11	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		09/09/22 10:56	09/09/22 23:11	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/09/22 10:56	09/09/22 23:11	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/09/22 10:56	09/09/22 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/09/22 10:56*	*09/09/22 23:11*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*09/09/22 10:56*	*09/09/22 23:11*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 13:37	09/02/22 21:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 13:37	09/02/22 21:43	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-57
Date Collected: 08/29/22 14:06
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 13:37	09/02/22 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*09/02/22 13:37*	*09/02/22 21:43*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*09/02/22 13:37*	*09/02/22 21:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.3**		5.04		mg/Kg			09/09/22 12:42	1

Client Sample ID: C-58
Date Collected: 08/29/22 14:08
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/09/22 23:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/09/22 23:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/09/22 23:32	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/09/22 10:56	09/09/22 23:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/09/22 23:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/09/22 10:56	09/09/22 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/09/22 10:56*	*09/09/22 23:32*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*09/09/22 10:56*	*09/09/22 23:32*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 13:37	09/02/22 22:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/02/22 22:05	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/02/22 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*09/02/22 13:37*	*09/02/22 22:05*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/02/22 13:37*	*09/02/22 22:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		5.03		mg/Kg			09/09/22 12:47	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-59

Date Collected: 08/29/22 14:10
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/09/22 10:56	09/09/22 23:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/09/22 10:56	09/09/22 23:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/09/22 10:56	09/09/22 23:52	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/09/22 10:56	09/09/22 23:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/09/22 10:56	09/09/22 23:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/09/22 10:56	09/09/22 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*09/09/22 10:56*	*09/09/22 23:52*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*09/09/22 10:56*	*09/09/22 23:52*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 13:37	09/02/22 22:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/02/22 22:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/02/22 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/02/22 13:37*	*09/02/22 22:26*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*09/02/22 13:37*	*09/02/22 22:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**680**		5.00		mg/Kg			09/09/22 12:52	1

Client Sample ID: C-60

Date Collected: 08/29/22 14:12
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/09/22 10:56	09/10/22 00:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/09/22 10:56	09/10/22 00:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/09/22 10:56	09/10/22 00:13	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/09/22 10:56	09/10/22 00:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/09/22 10:56	09/10/22 00:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/09/22 10:56	09/10/22 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*09/09/22 10:56*	*09/10/22 00:13*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*09/09/22 10:56*	*09/10/22 00:13*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-60

Date Collected: 08/29/22 14:12
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-6
Matrix: Solid

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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 13:37	09/02/22 22:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/02/22 22:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/02/22 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*09/02/22 13:37*	*09/02/22 22:48*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*09/02/22 13:37*	*09/02/22 22:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.6**		5.00		mg/Kg			09/09/22 13:06	1

Client Sample ID: C-61

Date Collected: 08/29/22 14:15
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-7
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 00:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 00:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 00:33	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/09/22 10:56	09/10/22 00:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 00:33	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/09/22 10:56	09/10/22 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/09/22 10:56*	*09/10/22 00:33*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*09/09/22 10:56*	*09/10/22 00:33*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 13:37	09/02/22 23:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/02/22 23:09	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-61

Date Collected: 08/29/22 14:15
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/02/22 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*09/02/22 13:37*	*09/02/22 23:09*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/02/22 13:37*	*09/02/22 23:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**284**		4.96		mg/Kg			09/09/22 13:11	1

Client Sample ID: C-62

Date Collected: 08/29/22 14:18
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-8
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/09/22 10:56	09/10/22 00:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/09/22 10:56	09/10/22 00:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/09/22 10:56	09/10/22 00:54	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/09/22 10:56	09/10/22 00:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/09/22 10:56	09/10/22 00:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/09/22 10:56	09/10/22 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*09/09/22 10:56*	*09/10/22 00:54*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*09/09/22 10:56*	*09/10/22 00:54*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 13:37	09/02/22 23:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 13:37	09/02/22 23:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 13:37	09/02/22 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*09/02/22 13:37*	*09/02/22 23:31*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/02/22 13:37*	*09/02/22 23:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**664**		4.98		mg/Kg			09/09/22 13:16	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-63

Date Collected: 08/29/22 14:20
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-9
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 02:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 02:57	1
Ethylbenzene	**0.00272**		0.00200		mg/Kg		09/09/22 10:56	09/10/22 02:57	1
m,p-Xylenes	**0.00601**		0.00399		mg/Kg		09/09/22 10:56	09/10/22 02:57	1
o-Xylene	**0.0101**		0.00200		mg/Kg		09/09/22 10:56	09/10/22 02:57	1
Xylenes, Total	**0.0161**		0.00399		mg/Kg		09/09/22 10:56	09/10/22 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*09/09/22 10:56*	*09/10/22 02:57*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/09/22 10:56*	*09/10/22 02:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0188**		0.00399		mg/Kg			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 13:37	09/02/22 23:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 13:37	09/02/22 23:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 13:37	09/02/22 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*09/02/22 13:37*	*09/02/22 23:52*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*09/02/22 13:37*	*09/02/22 23:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1340**		5.04		mg/Kg			09/09/22 13:21	1

Client Sample ID: C-64

Date Collected: 08/29/22 14:22
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-10
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 03:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 03:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 03:18	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/09/22 10:56	09/10/22 03:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 03:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/09/22 10:56	09/10/22 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/09/22 10:56*	*09/10/22 03:18*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*09/09/22 10:56*	*09/10/22 03:18*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-64

Date Collected: 08/29/22 14:22
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-10
Matrix: Solid

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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 13:37	09/03/22 00:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/03/22 00:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/02/22 13:37	09/03/22 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*09/02/22 13:37*	*09/03/22 00:14*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*09/02/22 13:37*	*09/03/22 00:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2670**		25.3		mg/Kg			09/09/22 13:26	5

Client Sample ID: C-65

Date Collected: 08/29/22 14:25
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 03:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 03:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 03:38	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/09/22 10:56	09/10/22 03:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/10/22 03:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/09/22 10:56	09/10/22 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/09/22 10:56*	*09/10/22 03:38*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*09/09/22 10:56*	*09/10/22 03:38*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 13:37	09/03/22 00:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 13:37	09/03/22 00:57	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-65

Date Collected: 08/29/22 14:25
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 13:37	09/03/22 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/02/22 13:37*	*09/03/22 00:57*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/02/22 13:37*	*09/03/22 00:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**656**	**F1**	5.00		mg/Kg			09/09/22 13:31	1

Client Sample ID: C-66

Date Collected: 08/31/22 09:30
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-12
Matrix: Solid

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		09/09/22 13:58	09/11/22 07:46	1
Toluene	<0.00201	U F2 F1	0.00201		mg/Kg		09/09/22 13:58	09/11/22 07:46	1
Ethylbenzene	<0.00201	U F2 F1	0.00201		mg/Kg		09/09/22 13:58	09/11/22 07:46	1
m,p-Xylenes	<0.00402	U F2 F1	0.00402		mg/Kg		09/09/22 13:58	09/11/22 07:46	1
o-Xylene	<0.00201	U F2 F1	0.00201		mg/Kg		09/09/22 13:58	09/11/22 07:46	1
Xylenes, Total	<0.00402	U F2 F1	0.00402		mg/Kg		09/09/22 13:58	09/11/22 07:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*09/09/22 13:58*	*09/11/22 07:46*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*09/09/22 13:58*	*09/11/22 07:46*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 15:07	09/03/22 16:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 15:07	09/03/22 16:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 15:07	09/03/22 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*09/02/22 15:07*	*09/03/22 16:47*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*09/02/22 15:07*	*09/03/22 16:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**823**		4.97		mg/Kg			09/09/22 13:45	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-67

Date Collected: 08/31/22 09:32
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-13
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/09/22 13:58	09/11/22 08:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/09/22 13:58	09/11/22 08:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/09/22 13:58	09/11/22 08:12	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/09/22 13:58	09/11/22 08:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/09/22 13:58	09/11/22 08:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/09/22 13:58	09/11/22 08:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*09/09/22 13:58*	*09/11/22 08:12*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/09/22 13:58*	*09/11/22 08:12*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 15:07	09/03/22 17:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 15:07	09/03/22 17:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 15:07	09/03/22 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*09/02/22 15:07*	*09/03/22 17:07*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*09/02/22 15:07*	*09/03/22 17:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**357**		4.99		mg/Kg			09/09/22 13:50	1

Client Sample ID: C-68

Date Collected: 08/31/22 09:36
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-14
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/09/22 13:58	09/11/22 08:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/09/22 13:58	09/11/22 08:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/09/22 13:58	09/11/22 08:38	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		09/09/22 13:58	09/11/22 08:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/09/22 13:58	09/11/22 08:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/09/22 13:58	09/11/22 08:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*09/09/22 13:58*	*09/11/22 08:38*	*1*
1,4-Difluorobenzene (Surr)	*10*	*S1-*	*70 - 130*	*09/09/22 13:58*	*09/11/22 08:38*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-68

Date Collected: 08/31/22 09:36
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-14
Matrix: Solid

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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 15:07	09/03/22 17:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/02/22 15:07	09/03/22 17:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/02/22 15:07	09/03/22 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*09/02/22 15:07*	*09/03/22 17:27*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*09/02/22 15:07*	*09/03/22 17:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**394**		4.95		mg/Kg			09/09/22 14:05	1

Client Sample ID: C-69

Date Collected: 08/31/22 09:40
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-15
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/09/22 13:58	09/11/22 09:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/09/22 13:58	09/11/22 09:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/09/22 13:58	09/11/22 09:04	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/09/22 13:58	09/11/22 09:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/09/22 13:58	09/11/22 09:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/09/22 13:58	09/11/22 09:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*09/09/22 13:58*	*09/11/22 09:04*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/09/22 13:58*	*09/11/22 09:04*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 15:07	09/03/22 17:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 15:07	09/03/22 17:47	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-69

Date Collected: 08/31/22 09:40
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 15:07	09/03/22 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*09/02/22 15:07*	*09/03/22 17:47*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/02/22 15:07*	*09/03/22 17:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**567**		4.96		mg/Kg			09/09/22 14:09	1

Client Sample ID: C-70

Date Collected: 08/31/22 09:45
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-16
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/09/22 13:58	09/11/22 09:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/09/22 13:58	09/11/22 09:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/09/22 13:58	09/11/22 09:30	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		09/09/22 13:58	09/11/22 09:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/09/22 13:58	09/11/22 09:30	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/09/22 13:58	09/11/22 09:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*09/09/22 13:58*	*09/11/22 09:30*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/09/22 13:58*	*09/11/22 09:30*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 15:07	09/03/22 18:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/02/22 15:07	09/03/22 18:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/02/22 15:07	09/03/22 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*09/02/22 15:07*	*09/03/22 18:07*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*09/02/22 15:07*	*09/03/22 18:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**483**		4.96		mg/Kg			09/09/22 14:14	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-71

Date Collected: 08/31/22 09:48
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-17

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 09:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 09:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 09:56	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/09/22 13:58	09/11/22 09:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 09:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/09/22 13:58	09/11/22 09:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*09/09/22 13:58*	*09/11/22 09:56*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/09/22 13:58*	*09/11/22 09:56*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 15:07	09/03/22 18:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 15:07	09/03/22 18:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 15:07	09/03/22 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*09/02/22 15:07*	*09/03/22 18:27*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*09/02/22 15:07*	*09/03/22 18:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**125**		5.03		mg/Kg			09/09/22 14:19	1

Client Sample ID: C-72

Date Collected: 08/31/22 09:51
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-18

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 10:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 10:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 10:22	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/09/22 13:58	09/11/22 10:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 10:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/09/22 13:58	09/11/22 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*09/09/22 13:58*	*09/11/22 10:22*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/09/22 13:58*	*09/11/22 10:22*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-72

Date Collected: 08/31/22 09:51
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-18
Matrix: Solid

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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 15:07	09/03/22 18:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/02/22 15:07	09/03/22 18:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/02/22 15:07	09/03/22 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*09/02/22 15:07*	*09/03/22 18:47*	*1*
o-Terphenyl (Surr)	*119*		*70 - 130*	*09/02/22 15:07*	*09/03/22 18:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.6**		4.97		mg/Kg			09/09/22 14:24	1

Client Sample ID: C-73

Date Collected: 08/31/22 09:54
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-19
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/09/22 13:58	09/11/22 10:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/09/22 13:58	09/11/22 10:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/09/22 13:58	09/11/22 10:49	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		09/09/22 13:58	09/11/22 10:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/09/22 13:58	09/11/22 10:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/09/22 13:58	09/11/22 10:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*09/09/22 13:58*	*09/11/22 10:49*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/09/22 13:58*	*09/11/22 10:49*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 15:07	09/03/22 19:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 15:07	09/03/22 19:07	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-73

Date Collected: 08/31/22 09:54
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 15:07	09/03/22 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*09/02/22 15:07*	*09/03/22 19:07*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*09/02/22 15:07*	*09/03/22 19:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		5.00		mg/Kg			09/09/22 14:29	1

Client Sample ID: C-74

Date Collected: 08/31/22 09:59
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-20
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/09/22 13:58	09/11/22 11:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/09/22 13:58	09/11/22 11:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/09/22 13:58	09/11/22 11:15	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/09/22 13:58	09/11/22 11:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/09/22 13:58	09/11/22 11:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/09/22 13:58	09/11/22 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/09/22 13:58*	*09/11/22 11:15*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*09/09/22 13:58*	*09/11/22 11:15*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 15:07	09/03/22 19:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/02/22 15:07	09/03/22 19:27	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/02/22 15:07	09/03/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*09/02/22 15:07*	*09/03/22 19:27*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*09/02/22 15:07*	*09/03/22 19:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**113**		5.01		mg/Kg			09/09/22 14:34	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-75

Date Collected: 08/31/22 10:02
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-21

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/09/22 13:58	09/11/22 11:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/09/22 13:58	09/11/22 11:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/09/22 13:58	09/11/22 11:41	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		09/09/22 13:58	09/11/22 11:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/09/22 13:58	09/11/22 11:41	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/09/22 13:58	09/11/22 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/09/22 13:58*	*09/11/22 11:41*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/09/22 13:58*	*09/11/22 11:41*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/06/22 13:07	09/07/22 02:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/06/22 13:07	09/07/22 02:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/06/22 13:07	09/07/22 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/06/22 13:07*	*09/07/22 02:07*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*09/06/22 13:07*	*09/07/22 02:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**451**		4.99		mg/Kg			09/09/22 19:16	1

Client Sample ID: C-76

Date Collected: 08/31/22 10:06
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-22

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/09/22 13:58	09/11/22 13:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/09/22 13:58	09/11/22 13:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/09/22 13:58	09/11/22 13:28	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/09/22 13:58	09/11/22 13:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/09/22 13:58	09/11/22 13:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/09/22 13:58	09/11/22 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/09/22 13:58*	*09/11/22 13:28*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/09/22 13:58*	*09/11/22 13:28*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-76

Date Collected: 08/31/22 10:06
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-22
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 11:00	09/03/22 18:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 11:00	09/03/22 18:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 11:00	09/03/22 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*09/02/22 11:00*	*09/03/22 18:24*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*09/02/22 11:00*	*09/03/22 18:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1120**		4.99		mg/Kg			09/09/22 19:24	1

Client Sample ID: C-77

Date Collected: 08/31/22 10:09
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-23
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 13:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 13:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 13:54	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/09/22 13:58	09/11/22 13:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 13:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/09/22 13:58	09/11/22 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*5*	*S1-*	*70 - 130*	*09/09/22 13:58*	*09/11/22 13:54*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/09/22 13:58*	*09/11/22 13:54*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 11:00	09/03/22 18:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 11:00	09/03/22 18:45	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-77

Date Collected: 08/31/22 10:09
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 11:00	09/03/22 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*09/02/22 11:00*	*09/03/22 18:45*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/02/22 11:00*	*09/03/22 18:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**698**	**F1**	5.02		mg/Kg			09/09/22 19:32	1

Client Sample ID: C-78

Date Collected: 08/31/22 10:12
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-24
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/09/22 13:58	09/11/22 14:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/09/22 13:58	09/11/22 14:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/09/22 13:58	09/11/22 14:21	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/09/22 13:58	09/11/22 14:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/09/22 13:58	09/11/22 14:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/09/22 13:58	09/11/22 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*09/09/22 13:58*	*09/11/22 14:21*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/09/22 13:58*	*09/11/22 14:21*	*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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 11:00	09/03/22 19:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/02/22 11:00	09/03/22 19:06	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/02/22 11:00	09/03/22 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*09/02/22 11:00*	*09/03/22 19:06*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/02/22 11:00*	*09/03/22 19:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**371**		5.01		mg/Kg			09/09/22 19:55	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-79

Date Collected: 08/31/22 10:15
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-25
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 14:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 14:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 14:48	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/09/22 13:58	09/11/22 14:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/09/22 13:58	09/11/22 14:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/09/22 13:58	09/11/22 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*09/09/22 13:58*	*09/11/22 14:48*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/09/22 13:58*	*09/11/22 14:48*	*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			09/10/22 11:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**102**		50.0		mg/Kg			09/06/22 09:47	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		09/02/22 11:00	09/03/22 19:27	1
Diesel Range Organics (Over C10-C28)	**102**		50.0		mg/Kg		09/02/22 11:00	09/03/22 19:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 11:00	09/03/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*09/02/22 11:00*	*09/03/22 19:27*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*09/02/22 11:00*	*09/03/22 19:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**537**		5.01		mg/Kg			09/09/22 20:02	1

Client Sample ID: C-80

Date Collected: 08/31/22 10:20
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-26
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/09/22 13:58	09/11/22 15:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/09/22 13:58	09/11/22 15:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/09/22 13:58	09/11/22 15:14	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		09/09/22 13:58	09/11/22 15:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/09/22 13:58	09/11/22 15:14	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/09/22 13:58	09/11/22 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*09/09/22 13:58*	*09/11/22 15:14*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*09/09/22 13:58*	*09/11/22 15:14*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-80

Date Collected: 08/31/22 10:20
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-26

Matrix: Solid

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			09/10/22 11:04	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			09/06/22 09:47	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		09/02/22 11:00	09/03/22 19:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/02/22 11:00	09/03/22 19:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/02/22 11:00	09/03/22 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*09/02/22 11:00*	*09/03/22 19:49*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*09/02/22 11:00*	*09/03/22 19:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**442**		4.98		mg/Kg			09/09/22 20:25	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

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)
880-18785-1	C-55	116	96
880-18785-1 MS	C-55	110	106
880-18785-1 MSD	C-55	93	91
880-18785-2	C-56	116	81
880-18785-3	C-57	112	86
880-18785-4	C-58	112	87
880-18785-5	C-59	98	74
880-18785-6	C-60	114	88
880-18785-7	C-61	99	69 S1-
880-18785-8	C-62	117	90
880-18785-9	C-63	125	99
880-18785-10	C-64	101	72
880-18785-11	C-65	89	82
880-18785-12	C-66	96	85
880-18785-12 MS	C-66	59 S1-	92
880-18785-12 MSD	C-66	58 S1-	103
880-18785-13	C-67	65 S1-	101
880-18785-14	C-68	62 S1-	10 S1-
880-18785-15	C-69	70	104
880-18785-16	C-70	65 S1-	94
880-18785-17	C-71	73	102
880-18785-18	C-72	79	100
880-18785-19	C-73	75	99
880-18785-20	C-74	101	97
880-18785-21	C-75	89	100
880-18785-22	C-76	95	104
880-18785-23	C-77	5 S1-	99
880-18785-24	C-78	79	110
880-18785-25	C-79	91	107
880-18785-26	C-80	78	109
LCS 880-34086/1-A	Lab Control Sample	113	102
LCS 880-34115/1-A	Lab Control Sample	99	103
LCSD 880-34086/2-A	Lab Control Sample Dup	126	104
LCSD 880-34115/2-A	Lab Control Sample Dup	110	107
MB 880-33952/5-A	Method Blank	93	85
MB 880-34086/5-A	Method Blank	89	86
MB 880-34108/5-A	Method Blank	62 S1-	91

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)
880-18785-1	C-55	105	101
880-18785-1 MS	C-55	90	78

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-18785-1
Project/Site: Limestone 1H SDG: 21-0100-24

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)
880-18785-1 MSD	C-55	90	77
880-18785-2	C-56	103	101
880-18785-3	C-57	114	111
880-18785-4	C-58	105	104
880-18785-5	C-59	98	96
880-18785-6	C-60	96	94
880-18785-7	C-61	99	98
880-18785-8	C-62	105	104
880-18785-9	C-63	115	111
880-18785-10	C-64	117	115
880-18785-11	C-65	98	98
880-18785-12	C-66	92	116
880-18785-13	C-67	86	110
880-18785-14	C-68	87	110
880-18785-15	C-69	85	108
880-18785-16	C-70	85	111
880-18785-17	C-71	88	117
880-18785-18	C-72	91	119
880-18785-19	C-73	86	111
880-18785-20	C-74	85	111
880-18785-21	C-75	102	110
880-18785-22	C-76	107	109
880-18785-23	C-77	97	98
880-18785-24	C-78	103	104
880-18785-25	C-79	109	109
880-18785-26	C-80	111	112
LCS 880-33623/2-A	Lab Control Sample	141 S1+	141 S1+
LCS 880-33652/2-A	Lab Control Sample	141 S1+	144 S1+
LCS 880-33656/2-A	Lab Control Sample	114	143 S1+
LCS 880-33851/2-A	Lab Control Sample	93	108
LCSD 880-33623/3-A	Lab Control Sample Dup	132 S1+	134 S1+
LCSD 880-33652/3-A	Lab Control Sample Dup	144 S1+	146 S1+
LCSD 880-33656/3-A	Lab Control Sample Dup	114	146 S1+
LCSD 880-33851/3-A	Lab Control Sample Dup	85	99
MB 880-33623/1-A	Method Blank	128	130
MB 880-33652/1-A	Method Blank	110	115
MB 880-33656/1-A	Method Blank	91	114
MB 880-33851/1-A	Method Blank	99	112

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33952/5-A
Matrix: Solid
Analysis Batch: 34055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33952

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/07/22 16:31	09/09/22 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/22 16:31	09/09/22 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/22 16:31	09/09/22 11:34	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/07/22 16:31	09/09/22 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/22 16:31	09/09/22 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/07/22 16:31	09/09/22 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*09/07/22 16:31*	*09/09/22 11:34*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*09/07/22 16:31*	*09/09/22 11:34*	*1*

Lab Sample ID: MB 880-34086/5-A
Matrix: Solid
Analysis Batch: 34055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34086

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/09/22 22:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/09/22 22:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/09/22 22:09	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/09/22 10:56	09/09/22 22:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/09/22 10:56	09/09/22 22:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/09/22 10:56	09/09/22 22:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/09/22 10:56*	*09/09/22 22:09*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*09/09/22 10:56*	*09/09/22 22:09*	*1*

Lab Sample ID: LCS 880-34086/1-A
Matrix: Solid
Analysis Batch: 34055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34086

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08970		mg/Kg		90	70 - 130		
Toluene			0.100	0.08468		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.09106		mg/Kg		91	70 - 130		
m,p-Xylenes			0.200	0.1823		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.1053		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-34086/2-A
Matrix: Solid
Analysis Batch: 34055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34086

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07118		mg/Kg		71	70 - 130	23	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-34086/2-A
Matrix: Solid
Analysis Batch: 34055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34086

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07057		mg/Kg		71	70 - 130	18	35
Ethylbenzene			0.100	0.07968		mg/Kg		80	70 - 130	13	35
m,p-Xylenes			0.200	0.1651		mg/Kg		83	70 - 130	10	35
o-Xylene			0.100	0.09809		mg/Kg		98	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-18785-1 MS
Matrix: Solid
Analysis Batch: 34055

Client Sample ID: C-55
Prep Type: Total/NA
Prep Batch: 34086

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U F1 F2	0.101	0.08569		mg/Kg		85	70 - 130
Toluene	<0.00202	U F1 F2	0.101	0.07915		mg/Kg		79	70 - 130
Ethylbenzene	<0.00202	U F1 F2	0.101	0.08057		mg/Kg		80	70 - 130
m,p-Xylenes	<0.00403	U F1 F2	0.201	0.1628		mg/Kg		81	70 - 130
o-Xylene	<0.00202	U F1 F2	0.101	0.09203		mg/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-18785-1 MSD
Matrix: Solid
Analysis Batch: 34055

Client Sample ID: C-55
Prep Type: Total/NA
Prep Batch: 34086

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1 F2	0.0990	0.02997	F1 F2	mg/Kg		30	70 - 130	96	35
Toluene	<0.00202	U F1 F2	0.0990	0.03637	F1 F2	mg/Kg		37	70 - 130	74	35
Ethylbenzene	<0.00202	U F1 F2	0.0990	0.03912	F1 F2	mg/Kg		40	70 - 130	69	35
m,p-Xylenes	<0.00403	U F1 F2	0.198	0.07596	F1 F2	mg/Kg		38	70 - 130	73	35
o-Xylene	<0.00202	U F1 F2	0.0990	0.04590	F1 F2	mg/Kg		46	70 - 130	67	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 880-34108/5-A
Matrix: Solid
Analysis Batch: 34150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34108

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/22 12:42	09/10/22 18:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/22 12:42	09/10/22 18:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/09/22 12:42	09/10/22 18:08	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/09/22 12:42	09/10/22 18:08	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-34108/5-A
Matrix: Solid
Analysis Batch: 34150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34108

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/09/22 12:42	09/10/22 18:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/09/22 12:42	09/10/22 18:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*09/09/22 12:42*	*09/10/22 18:08*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/09/22 12:42*	*09/10/22 18:08*	*1*

Lab Sample ID: LCS 880-34115/1-A
Matrix: Solid
Analysis Batch: 34150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34115

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08024		mg/Kg		80	70 - 130		
Toluene			0.100	0.07270		mg/Kg		73	70 - 130		
Ethylbenzene			0.100	0.07739		mg/Kg		77	70 - 130		
m,p-Xylenes			0.200	0.1564		mg/Kg		78	70 - 130		
o-Xylene			0.100	0.08545		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-34115/2-A
Matrix: Solid
Analysis Batch: 34150

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34115

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09158		mg/Kg		92	70 - 130	13	35
Toluene			0.100	0.09001		mg/Kg		90	70 - 130	21	35
Ethylbenzene			0.100	0.09440		mg/Kg		94	70 - 130	20	35
m,p-Xylenes			0.200	0.1886		mg/Kg		94	70 - 130	19	35
o-Xylene			0.100	0.09684		mg/Kg		97	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-18785-12 MS
Matrix: Solid
Analysis Batch: 34150

Client Sample ID: C-66
Prep Type: Total/NA
Prep Batch: 34115

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F2 F1	0.0998	0.02888	F1	mg/Kg		29	70 - 130		
Toluene	<0.00201	U F2 F1	0.0998	0.03107	F1	mg/Kg		31	70 - 130		
Ethylbenzene	<0.00201	U F2 F1	0.0998	0.03184	F1	mg/Kg		32	70 - 130		
m,p-Xylenes	<0.00402	U F2 F1	0.200	0.06457	F1	mg/Kg		32	70 - 130		
o-Xylene	<0.00201	U F2 F1	0.0998	0.03566	F1	mg/Kg		36	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

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

Lab Sample ID: 880-18785-12 MS
Matrix: Solid
Analysis Batch: 34150

Client Sample ID: C-66
Prep Type: Total/NA
Prep Batch: 34115

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-18785-12 MSD
Matrix: Solid
Analysis Batch: 34150

Client Sample ID: C-66
Prep Type: Total/NA
Prep Batch: 34115

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	0.0996	0.01727	F2 F1	mg/Kg		17	70 - 130	50	35
Toluene	<0.00201	U F2 F1	0.0996	0.01718	F2 F1	mg/Kg		17	70 - 130	58	35
Ethylbenzene	<0.00201	U F2 F1	0.0996	0.01762	F2 F1	mg/Kg		18	70 - 130	57	35
m,p-Xylenes	<0.00402	U F2 F1	0.199	0.03499	F2 F1	mg/Kg		18	70 - 130	59	35
o-Xylene	<0.00201	U F2 F1	0.0996	<0.00199	U F2 F1	mg/Kg		1	70 - 130	185	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	58	S1-	70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-33623/1-A
Matrix: Solid
Analysis Batch: 33680

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33623

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		09/02/22 11:00	09/03/22 10:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 11:00	09/03/22 10:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 11:00	09/03/22 10:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	128		70 - 130	09/02/22 11:00	09/03/22 10:54	1
o-Terphenyl (Surr)	130		70 - 130	09/02/22 11:00	09/03/22 10:54	1

Lab Sample ID: LCS 880-33623/2-A
Matrix: Solid
Analysis Batch: 33680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33623

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	800.8		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	880.7		mg/Kg		88	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	141	S1+	70 - 130
o-Terphenyl (Surr)	141	S1+	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-33623/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33680 — **Prep Batch: 33623**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	805.5		mg/Kg		81	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	818.0		mg/Kg		82	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*132*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*134*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-33652/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33584 — **Prep Batch: 33652**

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		09/02/22 13:37	09/02/22 19:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 13:37	09/02/22 19:12	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 13:37	09/02/22 19:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*09/02/22 13:37*	*09/02/22 19:12*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*09/02/22 13:37*	*09/02/22 19:12*	*1*

Lab Sample ID: LCS 880-33652/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33584 — **Prep Batch: 33652**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	897.3		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	906.9		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*141*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*144*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-33652/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33584 — **Prep Batch: 33652**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	916.7		mg/Kg		92	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	923.6		mg/Kg		92	70 - 130	2	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-33652/3-A
Matrix: Solid
Analysis Batch: 33584

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33652

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	144	S1+	70 - 130
o-Terphenyl (Surr)	146	S1+	70 - 130

Lab Sample ID: 880-18785-1 MS
Matrix: Solid
Analysis Batch: 33584

Client Sample ID: C-55
Prep Type: Total/NA
Prep Batch: 33652

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	898.3		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	847.2		mg/Kg		85	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	90		70 - 130
o-Terphenyl (Surr)	78		70 - 130

Lab Sample ID: 880-18785-1 MSD
Matrix: Solid
Analysis Batch: 33584

Client Sample ID: C-55
Prep Type: Total/NA
Prep Batch: 33652

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	998	889.0		mg/Kg		87	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	842.9		mg/Kg		84	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	90		70 - 130
o-Terphenyl (Surr)	77		70 - 130

Lab Sample ID: MB 880-33656/1-A
Matrix: Solid
Analysis Batch: 33684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33656

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		09/02/22 15:07	09/03/22 10:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/02/22 15:07	09/03/22 10:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/02/22 15:07	09/03/22 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	09/02/22 15:07	09/03/22 10:57	1
o-Terphenyl (Surr)	114		70 - 130	09/02/22 15:07	09/03/22 10:57	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-33656/2-A
Matrix: Solid
Analysis Batch: 33684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33656

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	894.9		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1162		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*114*		*70 - 130*
o-Terphenyl (Surr)	*143*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-33656/3-A
Matrix: Solid
Analysis Batch: 33684

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33656

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	917.3		mg/Kg		92	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1227		mg/Kg		123	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*114*		*70 - 130*
o-Terphenyl (Surr)	*146*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-33851/1-A
Matrix: Solid
Analysis Batch: 33786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33851

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		09/06/22 13:07	09/06/22 17:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/06/22 13:07	09/06/22 17:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/06/22 13:07	09/06/22 17:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*09/06/22 13:07*	*09/06/22 17:56*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*09/06/22 13:07*	*09/06/22 17:56*	*1*

Lab Sample ID: LCS 880-33851/2-A
Matrix: Solid
Analysis Batch: 33786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33851

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	785.4		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	890.6		mg/Kg		89	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-33851/2-A
Matrix: Solid
Analysis Batch: 33786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33851

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	93		70 - 130
o-Terphenyl (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-33851/3-A
Matrix: Solid
Analysis Batch: 33786

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33851

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	742.3		mg/Kg		74	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	836.6		mg/Kg		84	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	85		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33620/1-A
Matrix: Solid
Analysis Batch: 34078

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			09/09/22 12:08	1

Lab Sample ID: LCS 880-33620/2-A
Matrix: Solid
Analysis Batch: 34078

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	239.0		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-33620/3-A
Matrix: Solid
Analysis Batch: 34078

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	239.9		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-18785-1 MS
Matrix: Solid
Analysis Batch: 34078

Client Sample ID: C-55
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	87.6		250	317.6		mg/Kg		92	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-18785-1 MSD
Matrix: Solid
Analysis Batch: 34078

Client Sample ID: C-55
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	87.6		250	317.6		mg/Kg		92	90 - 110	0	20

Lab Sample ID: 880-18785-11 MS
Matrix: Solid
Analysis Batch: 34078

Client Sample ID: C-65
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	656	F1	250	860.6	F1	mg/Kg		82	90 - 110

Lab Sample ID: 880-18785-11 MSD
Matrix: Solid
Analysis Batch: 34078

Client Sample ID: C-65
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	656	F1	250	861.0	F1	mg/Kg		82	90 - 110	0	20

Lab Sample ID: MB 880-33692/1-A
Matrix: Solid
Analysis Batch: 34079

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			09/09/22 17:22	1

Lab Sample ID: LCS 880-33692/2-A
Matrix: Solid
Analysis Batch: 34079

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.7		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-33692/3-A
Matrix: Solid
Analysis Batch: 34079

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	242.7		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 880-18785-23 MS
Matrix: Solid
Analysis Batch: 34079

Client Sample ID: C-77
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	698	F1	251	903.8	F1	mg/Kg		82	90 - 110

Lab Sample ID: 880-18785-23 MSD
Matrix: Solid
Analysis Batch: 34079

Client Sample ID: C-77
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	698	F1	251	904.6	F1	mg/Kg		82	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

GC VOA

Prep Batch: 33952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33952/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 34055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-1	C-55	Total/NA	Solid	8021B	34086
880-18785-2	C-56	Total/NA	Solid	8021B	34086
880-18785-3	C-57	Total/NA	Solid	8021B	34086
880-18785-4	C-58	Total/NA	Solid	8021B	34086
880-18785-5	C-59	Total/NA	Solid	8021B	34086
880-18785-6	C-60	Total/NA	Solid	8021B	34086
880-18785-7	C-61	Total/NA	Solid	8021B	34086
880-18785-8	C-62	Total/NA	Solid	8021B	34086
880-18785-9	C-63	Total/NA	Solid	8021B	34086
880-18785-10	C-64	Total/NA	Solid	8021B	34086
880-18785-11	C-65	Total/NA	Solid	8021B	34086
MB 880-33952/5-A	Method Blank	Total/NA	Solid	8021B	33952
MB 880-34086/5-A	Method Blank	Total/NA	Solid	8021B	34086
LCS 880-34086/1-A	Lab Control Sample	Total/NA	Solid	8021B	34086
LCSD 880-34086/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34086
880-18785-1 MS	C-55	Total/NA	Solid	8021B	34086
880-18785-1 MSD	C-55	Total/NA	Solid	8021B	34086

Prep Batch: 34086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-1	C-55	Total/NA	Solid	5035	
880-18785-2	C-56	Total/NA	Solid	5035	
880-18785-3	C-57	Total/NA	Solid	5035	
880-18785-4	C-58	Total/NA	Solid	5035	
880-18785-5	C-59	Total/NA	Solid	5035	
880-18785-6	C-60	Total/NA	Solid	5035	
880-18785-7	C-61	Total/NA	Solid	5035	
880-18785-8	C-62	Total/NA	Solid	5035	
880-18785-9	C-63	Total/NA	Solid	5035	
880-18785-10	C-64	Total/NA	Solid	5035	
880-18785-11	C-65	Total/NA	Solid	5035	
MB 880-34086/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34086/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34086/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18785-1 MS	C-55	Total/NA	Solid	5035	
880-18785-1 MSD	C-55	Total/NA	Solid	5035	

Prep Batch: 34108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-34108/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 34115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-12	C-66	Total/NA	Solid	5035	
880-18785-13	C-67	Total/NA	Solid	5035	
880-18785-14	C-68	Total/NA	Solid	5035	
880-18785-15	C-69	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

GC VOA (Continued)

Prep Batch: 34115 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-16	C-70	Total/NA	Solid	5035	
880-18785-17	C-71	Total/NA	Solid	5035	
880-18785-18	C-72	Total/NA	Solid	5035	
880-18785-19	C-73	Total/NA	Solid	5035	
880-18785-20	C-74	Total/NA	Solid	5035	
880-18785-21	C-75	Total/NA	Solid	5035	
880-18785-22	C-76	Total/NA	Solid	5035	
880-18785-23	C-77	Total/NA	Solid	5035	
880-18785-24	C-78	Total/NA	Solid	5035	
880-18785-25	C-79	Total/NA	Solid	5035	
880-18785-26	C-80	Total/NA	Solid	5035	
LCS 880-34115/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34115/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18785-12 MS	C-66	Total/NA	Solid	5035	
880-18785-12 MSD	C-66	Total/NA	Solid	5035	

Analysis Batch: 34148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-1	C-55	Total/NA	Solid	Total BTEX	
880-18785-2	C-56	Total/NA	Solid	Total BTEX	
880-18785-3	C-57	Total/NA	Solid	Total BTEX	
880-18785-4	C-58	Total/NA	Solid	Total BTEX	
880-18785-5	C-59	Total/NA	Solid	Total BTEX	
880-18785-6	C-60	Total/NA	Solid	Total BTEX	
880-18785-7	C-61	Total/NA	Solid	Total BTEX	
880-18785-8	C-62	Total/NA	Solid	Total BTEX	
880-18785-9	C-63	Total/NA	Solid	Total BTEX	
880-18785-10	C-64	Total/NA	Solid	Total BTEX	
880-18785-11	C-65	Total/NA	Solid	Total BTEX	
880-18785-12	C-66	Total/NA	Solid	Total BTEX	
880-18785-13	C-67	Total/NA	Solid	Total BTEX	
880-18785-14	C-68	Total/NA	Solid	Total BTEX	
880-18785-15	C-69	Total/NA	Solid	Total BTEX	
880-18785-16	C-70	Total/NA	Solid	Total BTEX	
880-18785-17	C-71	Total/NA	Solid	Total BTEX	
880-18785-18	C-72	Total/NA	Solid	Total BTEX	
880-18785-19	C-73	Total/NA	Solid	Total BTEX	
880-18785-20	C-74	Total/NA	Solid	Total BTEX	
880-18785-21	C-75	Total/NA	Solid	Total BTEX	
880-18785-22	C-76	Total/NA	Solid	Total BTEX	
880-18785-23	C-77	Total/NA	Solid	Total BTEX	
880-18785-24	C-78	Total/NA	Solid	Total BTEX	
880-18785-25	C-79	Total/NA	Solid	Total BTEX	
880-18785-26	C-80	Total/NA	Solid	Total BTEX	

Analysis Batch: 34150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-12	C-66	Total/NA	Solid	8021B	34115
880-18785-13	C-67	Total/NA	Solid	8021B	34115
880-18785-14	C-68	Total/NA	Solid	8021B	34115
880-18785-15	C-69	Total/NA	Solid	8021B	34115

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

GC VOA (Continued)

Analysis Batch: 34150 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-16	C-70	Total/NA	Solid	8021B	34115
880-18785-17	C-71	Total/NA	Solid	8021B	34115
880-18785-18	C-72	Total/NA	Solid	8021B	34115
880-18785-19	C-73	Total/NA	Solid	8021B	34115
880-18785-20	C-74	Total/NA	Solid	8021B	34115
880-18785-21	C-75	Total/NA	Solid	8021B	34115
880-18785-22	C-76	Total/NA	Solid	8021B	34115
880-18785-23	C-77	Total/NA	Solid	8021B	34115
880-18785-24	C-78	Total/NA	Solid	8021B	34115
880-18785-25	C-79	Total/NA	Solid	8021B	34115
880-18785-26	C-80	Total/NA	Solid	8021B	34115
MB 880-34108/5-A	Method Blank	Total/NA	Solid	8021B	34108
LCS 880-34115/1-A	Lab Control Sample	Total/NA	Solid	8021B	34115
LCSD 880-34115/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34115
880-18785-12 MS	C-66	Total/NA	Solid	8021B	34115
880-18785-12 MSD	C-66	Total/NA	Solid	8021B	34115

GC Semi VOA

Analysis Batch: 33584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-1	C-55	Total/NA	Solid	8015B NM	33652
880-18785-2	C-56	Total/NA	Solid	8015B NM	33652
880-18785-3	C-57	Total/NA	Solid	8015B NM	33652
880-18785-4	C-58	Total/NA	Solid	8015B NM	33652
880-18785-5	C-59	Total/NA	Solid	8015B NM	33652
880-18785-6	C-60	Total/NA	Solid	8015B NM	33652
880-18785-7	C-61	Total/NA	Solid	8015B NM	33652
880-18785-8	C-62	Total/NA	Solid	8015B NM	33652
880-18785-9	C-63	Total/NA	Solid	8015B NM	33652
880-18785-10	C-64	Total/NA	Solid	8015B NM	33652
880-18785-11	C-65	Total/NA	Solid	8015B NM	33652
MB 880-33652/1-A	Method Blank	Total/NA	Solid	8015B NM	33652
LCS 880-33652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33652
LCSD 880-33652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33652
880-18785-1 MS	C-55	Total/NA	Solid	8015B NM	33652
880-18785-1 MSD	C-55	Total/NA	Solid	8015B NM	33652

Prep Batch: 33623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-22	C-76	Total/NA	Solid	8015NM Prep	
880-18785-23	C-77	Total/NA	Solid	8015NM Prep	
880-18785-24	C-78	Total/NA	Solid	8015NM Prep	
880-18785-25	C-79	Total/NA	Solid	8015NM Prep	
880-18785-26	C-80	Total/NA	Solid	8015NM Prep	
MB 880-33623/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33623/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33623/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

GC Semi VOA

Prep Batch: 33652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-1	C-55	Total/NA	Solid	8015NM Prep	
880-18785-2	C-56	Total/NA	Solid	8015NM Prep	
880-18785-3	C-57	Total/NA	Solid	8015NM Prep	
880-18785-4	C-58	Total/NA	Solid	8015NM Prep	
880-18785-5	C-59	Total/NA	Solid	8015NM Prep	
880-18785-6	C-60	Total/NA	Solid	8015NM Prep	
880-18785-7	C-61	Total/NA	Solid	8015NM Prep	
880-18785-8	C-62	Total/NA	Solid	8015NM Prep	
880-18785-9	C-63	Total/NA	Solid	8015NM Prep	
880-18785-10	C-64	Total/NA	Solid	8015NM Prep	
880-18785-11	C-65	Total/NA	Solid	8015NM Prep	
MB 880-33652/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33652/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18785-1 MS	C-55	Total/NA	Solid	8015NM Prep	
880-18785-1 MSD	C-55	Total/NA	Solid	8015NM Prep	

Prep Batch: 33656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-12	C-66	Total/NA	Solid	8015NM Prep	
880-18785-13	C-67	Total/NA	Solid	8015NM Prep	
880-18785-14	C-68	Total/NA	Solid	8015NM Prep	
880-18785-15	C-69	Total/NA	Solid	8015NM Prep	
880-18785-16	C-70	Total/NA	Solid	8015NM Prep	
880-18785-17	C-71	Total/NA	Solid	8015NM Prep	
880-18785-18	C-72	Total/NA	Solid	8015NM Prep	
880-18785-19	C-73	Total/NA	Solid	8015NM Prep	
880-18785-20	C-74	Total/NA	Solid	8015NM Prep	
MB 880-33656/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33656/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33656/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-22	C-76	Total/NA	Solid	8015B NM	33623
880-18785-23	C-77	Total/NA	Solid	8015B NM	33623
880-18785-24	C-78	Total/NA	Solid	8015B NM	33623
880-18785-25	C-79	Total/NA	Solid	8015B NM	33623
880-18785-26	C-80	Total/NA	Solid	8015B NM	33623
MB 880-33623/1-A	Method Blank	Total/NA	Solid	8015B NM	33623
LCS 880-33623/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33623
LCSD 880-33623/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33623

Analysis Batch: 33684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-12	C-66	Total/NA	Solid	8015B NM	33656
880-18785-13	C-67	Total/NA	Solid	8015B NM	33656
880-18785-14	C-68	Total/NA	Solid	8015B NM	33656
880-18785-15	C-69	Total/NA	Solid	8015B NM	33656
880-18785-16	C-70	Total/NA	Solid	8015B NM	33656
880-18785-17	C-71	Total/NA	Solid	8015B NM	33656

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 33684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-18	C-72	Total/NA	Solid	8015B NM	33656
880-18785-19	C-73	Total/NA	Solid	8015B NM	33656
880-18785-20	C-74	Total/NA	Solid	8015B NM	33656
MB 880-33656/1-A	Method Blank	Total/NA	Solid	8015B NM	33656
LCS 880-33656/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33656
LCSD 880-33656/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33656

Analysis Batch: 33786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-21	C-75	Total/NA	Solid	8015B NM	33851
MB 880-33851/1-A	Method Blank	Total/NA	Solid	8015B NM	33851
LCS 880-33851/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33851
LCSD 880-33851/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33851

Analysis Batch: 33812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-1	C-55	Total/NA	Solid	8015 NM	
880-18785-2	C-56	Total/NA	Solid	8015 NM	
880-18785-3	C-57	Total/NA	Solid	8015 NM	
880-18785-4	C-58	Total/NA	Solid	8015 NM	
880-18785-5	C-59	Total/NA	Solid	8015 NM	
880-18785-6	C-60	Total/NA	Solid	8015 NM	
880-18785-7	C-61	Total/NA	Solid	8015 NM	
880-18785-8	C-62	Total/NA	Solid	8015 NM	
880-18785-9	C-63	Total/NA	Solid	8015 NM	
880-18785-10	C-64	Total/NA	Solid	8015 NM	
880-18785-11	C-65	Total/NA	Solid	8015 NM	
880-18785-12	C-66	Total/NA	Solid	8015 NM	
880-18785-13	C-67	Total/NA	Solid	8015 NM	
880-18785-14	C-68	Total/NA	Solid	8015 NM	
880-18785-15	C-69	Total/NA	Solid	8015 NM	
880-18785-16	C-70	Total/NA	Solid	8015 NM	
880-18785-17	C-71	Total/NA	Solid	8015 NM	
880-18785-18	C-72	Total/NA	Solid	8015 NM	
880-18785-19	C-73	Total/NA	Solid	8015 NM	
880-18785-20	C-74	Total/NA	Solid	8015 NM	
880-18785-21	C-75	Total/NA	Solid	8015 NM	
880-18785-22	C-76	Total/NA	Solid	8015 NM	
880-18785-23	C-77	Total/NA	Solid	8015 NM	
880-18785-24	C-78	Total/NA	Solid	8015 NM	
880-18785-25	C-79	Total/NA	Solid	8015 NM	
880-18785-26	C-80	Total/NA	Solid	8015 NM	

Prep Batch: 33851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-21	C-75	Total/NA	Solid	8015NM Prep	
MB 880-33851/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33851/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33851/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

HPLC/IC

Leach Batch: 33620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-1	C-55	Soluble	Solid	DI Leach	
880-18785-2	C-56	Soluble	Solid	DI Leach	
880-18785-3	C-57	Soluble	Solid	DI Leach	
880-18785-4	C-58	Soluble	Solid	DI Leach	
880-18785-5	C-59	Soluble	Solid	DI Leach	
880-18785-6	C-60	Soluble	Solid	DI Leach	
880-18785-7	C-61	Soluble	Solid	DI Leach	
880-18785-8	C-62	Soluble	Solid	DI Leach	
880-18785-9	C-63	Soluble	Solid	DI Leach	
880-18785-10	C-64	Soluble	Solid	DI Leach	
880-18785-11	C-65	Soluble	Solid	DI Leach	
880-18785-12	C-66	Soluble	Solid	DI Leach	
880-18785-13	C-67	Soluble	Solid	DI Leach	
880-18785-14	C-68	Soluble	Solid	DI Leach	
880-18785-15	C-69	Soluble	Solid	DI Leach	
880-18785-16	C-70	Soluble	Solid	DI Leach	
880-18785-17	C-71	Soluble	Solid	DI Leach	
880-18785-18	C-72	Soluble	Solid	DI Leach	
880-18785-19	C-73	Soluble	Solid	DI Leach	
880-18785-20	C-74	Soluble	Solid	DI Leach	
MB 880-33620/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33620/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33620/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18785-1 MS	C-55	Soluble	Solid	DI Leach	
880-18785-1 MSD	C-55	Soluble	Solid	DI Leach	
880-18785-11 MS	C-65	Soluble	Solid	DI Leach	
880-18785-11 MSD	C-65	Soluble	Solid	DI Leach	

Leach Batch: 33692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-21	C-75	Soluble	Solid	DI Leach	
880-18785-22	C-76	Soluble	Solid	DI Leach	
880-18785-23	C-77	Soluble	Solid	DI Leach	
880-18785-24	C-78	Soluble	Solid	DI Leach	
880-18785-25	C-79	Soluble	Solid	DI Leach	
880-18785-26	C-80	Soluble	Solid	DI Leach	
MB 880-33692/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33692/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33692/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18785-23 MS	C-77	Soluble	Solid	DI Leach	
880-18785-23 MSD	C-77	Soluble	Solid	DI Leach	

Analysis Batch: 34078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-1	C-55	Soluble	Solid	300.0	33620
880-18785-2	C-56	Soluble	Solid	300.0	33620
880-18785-3	C-57	Soluble	Solid	300.0	33620
880-18785-4	C-58	Soluble	Solid	300.0	33620
880-18785-5	C-59	Soluble	Solid	300.0	33620
880-18785-6	C-60	Soluble	Solid	300.0	33620
880-18785-7	C-61	Soluble	Solid	300.0	33620

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

HPLC/IC (Continued)

Analysis Batch: 34078 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-8	C-62	Soluble	Solid	300.0	33620
880-18785-9	C-63	Soluble	Solid	300.0	33620
880-18785-10	C-64	Soluble	Solid	300.0	33620
880-18785-11	C-65	Soluble	Solid	300.0	33620
880-18785-12	C-66	Soluble	Solid	300.0	33620
880-18785-13	C-67	Soluble	Solid	300.0	33620
880-18785-14	C-68	Soluble	Solid	300.0	33620
880-18785-15	C-69	Soluble	Solid	300.0	33620
880-18785-16	C-70	Soluble	Solid	300.0	33620
880-18785-17	C-71	Soluble	Solid	300.0	33620
880-18785-18	C-72	Soluble	Solid	300.0	33620
880-18785-19	C-73	Soluble	Solid	300.0	33620
880-18785-20	C-74	Soluble	Solid	300.0	33620
MB 880-33620/1-A	Method Blank	Soluble	Solid	300.0	33620
LCS 880-33620/2-A	Lab Control Sample	Soluble	Solid	300.0	33620
LCSD 880-33620/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33620
880-18785-1 MS	C-55	Soluble	Solid	300.0	33620
880-18785-1 MSD	C-55	Soluble	Solid	300.0	33620
880-18785-11 MS	C-65	Soluble	Solid	300.0	33620
880-18785-11 MSD	C-65	Soluble	Solid	300.0	33620

Analysis Batch: 34079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18785-21	C-75	Soluble	Solid	300.0	33692
880-18785-22	C-76	Soluble	Solid	300.0	33692
880-18785-23	C-77	Soluble	Solid	300.0	33692
880-18785-24	C-78	Soluble	Solid	300.0	33692
880-18785-25	C-79	Soluble	Solid	300.0	33692
880-18785-26	C-80	Soluble	Solid	300.0	33692
MB 880-33692/1-A	Method Blank	Soluble	Solid	300.0	33692
LCS 880-33692/2-A	Lab Control Sample	Soluble	Solid	300.0	33692
LCSD 880-33692/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33692
880-18785-23 MS	C-77	Soluble	Solid	300.0	33692
880-18785-23 MSD	C-77	Soluble	Solid	300.0	33692

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-55
Date Collected: 08/29/22 14:00
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	34086	09/09/22 10:56	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34055	09/09/22 22:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33652	09/02/22 13:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 20:17	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 12:22	CH	EET MID

Client Sample ID: C-56
Date Collected: 08/29/22 14:04
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34086	09/09/22 10:56	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34055	09/09/22 22:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33652	09/02/22 13:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 21:22	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 12:37	CH	EET MID

Client Sample ID: C-57
Date Collected: 08/29/22 14:06
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	34086	09/09/22 10:56	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34055	09/09/22 23:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33652	09/02/22 13:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 21:43	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 12:42	CH	EET MID

Client Sample ID: C-58
Date Collected: 08/29/22 14:08
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34086	09/09/22 10:56	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34055	09/09/22 23:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-58
Date Collected: 08/29/22 14:08
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-4
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			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33652	09/02/22 13:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 22:05	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 12:47	CH	EET MID

Client Sample ID: C-59
Date Collected: 08/29/22 14:10
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34086	09/09/22 10:56	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34055	09/09/22 23:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33652	09/02/22 13:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 22:26	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 12:52	CH	EET MID

Client Sample ID: C-60
Date Collected: 08/29/22 14:12
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	34086	09/09/22 10:56	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34055	09/10/22 00:13	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33652	09/02/22 13:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 22:48	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 13:06	CH	EET MID

Client Sample ID: C-61
Date Collected: 08/29/22 14:15
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34086	09/09/22 10:56	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34055	09/10/22 00:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33652	09/02/22 13:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 23:09	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-61
Date Collected: 08/29/22 14:15
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 13:11	CH	EET MID

Client Sample ID: C-62
Date Collected: 08/29/22 14:18
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	34086	09/09/22 10:56	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34055	09/10/22 00:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33652	09/02/22 13:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 23:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 13:16	CH	EET MID

Client Sample ID: C-63
Date Collected: 08/29/22 14:20
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34086	09/09/22 10:56	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34055	09/10/22 02:57	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33652	09/02/22 13:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 23:52	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 13:21	CH	EET MID

Client Sample ID: C-64
Date Collected: 08/29/22 14:22
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34086	09/09/22 10:56	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34055	09/10/22 03:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33652	09/02/22 13:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/03/22 00:14	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	34078	09/09/22 13:26	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-65
Date Collected: 08/29/22 14:25
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34086	09/09/22 10:56	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34055	09/10/22 03:38	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33652	09/02/22 13:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/03/22 00:57	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 13:31	CH	EET MID

Client Sample ID: C-66
Date Collected: 08/31/22 09:30
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 07:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33656	09/02/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33684	09/03/22 16:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 13:45	CH	EET MID

Client Sample ID: C-67
Date Collected: 08/31/22 09:32
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 08:12	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33656	09/02/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33684	09/03/22 17:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 13:50	CH	EET MID

Client Sample ID: C-68
Date Collected: 08/31/22 09:36
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 08:38	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-68
Date Collected: 08/31/22 09:36
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33656	09/02/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33684	09/03/22 17:27	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 14:05	CH	EET MID

Client Sample ID: C-69
Date Collected: 08/31/22 09:40
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 09:04	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33656	09/02/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33684	09/03/22 17:47	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 14:09	CH	EET MID

Client Sample ID: C-70
Date Collected: 08/31/22 09:45
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 09:30	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33656	09/02/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33684	09/03/22 18:07	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 14:14	CH	EET MID

Client Sample ID: C-71
Date Collected: 08/31/22 09:48
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 09:56	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33656	09/02/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33684	09/03/22 18:27	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-71
Date Collected: 08/31/22 09:48
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 14:19	CH	EET MID

Client Sample ID: C-72
Date Collected: 08/31/22 09:51
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 10:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33656	09/02/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33684	09/03/22 18:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 14:24	CH	EET MID

Client Sample ID: C-73
Date Collected: 08/31/22 09:54
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 10:49	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33656	09/02/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33684	09/03/22 19:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 14:29	CH	EET MID

Client Sample ID: C-74
Date Collected: 08/31/22 09:59
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 11:15	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33656	09/02/22 15:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33684	09/03/22 19:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33620	09/02/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34078	09/09/22 14:34	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-75
Date Collected: 08/31/22 10:02
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 11:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33851	09/06/22 13:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33786	09/07/22 02:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33692	09/03/22 13:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34079	09/09/22 19:16	CH	EET MID

Client Sample ID: C-76
Date Collected: 08/31/22 10:06
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 13:28	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33623	09/02/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33680	09/03/22 18:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33692	09/03/22 13:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34079	09/09/22 19:24	CH	EET MID

Client Sample ID: C-77
Date Collected: 08/31/22 10:09
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 13:54	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33623	09/02/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33680	09/03/22 18:45	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33692	09/03/22 13:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34079	09/09/22 19:32	CH	EET MID

Client Sample ID: C-78
Date Collected: 08/31/22 10:12
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 14:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Client Sample ID: C-78

Date Collected: 08/31/22 10:12
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33623	09/02/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33680	09/03/22 19:06	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33692	09/03/22 13:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34079	09/09/22 19:55	CH	EET MID

Client Sample ID: C-79

Date Collected: 08/31/22 10:15
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 14:48	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33623	09/02/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33680	09/03/22 19:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33692	09/03/22 13:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34079	09/09/22 20:02	CH	EET MID

Client Sample ID: C-80

Date Collected: 08/31/22 10:20
Date Received: 09/02/22 08:21

Lab Sample ID: 880-18785-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	34115	09/09/22 13:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34150	09/11/22 15:14	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34148	09/10/22 11:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33812	09/06/22 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33623	09/02/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33680	09/03/22 19:49	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33692	09/03/22 13:14	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34079	09/09/22 20:25	CH	EET MID

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-18785-1
Project/Site: Limestone 1H SDG: 21-0100-24

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	T104704400-22-24	06-30-23

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: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18785-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18785-1	C-55	Solid	08/29/22 14:00	09/02/22 08:21
880-18785-2	C-56	Solid	08/29/22 14:04	09/02/22 08:21
880-18785-3	C-57	Solid	08/29/22 14:06	09/02/22 08:21
880-18785-4	C-58	Solid	08/29/22 14:08	09/02/22 08:21
880-18785-5	C-59	Solid	08/29/22 14:10	09/02/22 08:21
880-18785-6	C-60	Solid	08/29/22 14:12	09/02/22 08:21
880-18785-7	C-61	Solid	08/29/22 14:15	09/02/22 08:21
880-18785-8	C-62	Solid	08/29/22 14:18	09/02/22 08:21
880-18785-9	C-63	Solid	08/29/22 14:20	09/02/22 08:21
880-18785-10	C-64	Solid	08/29/22 14:22	09/02/22 08:21
880-18785-11	C-65	Solid	08/29/22 14:25	09/02/22 08:21
880-18785-12	C-66	Solid	08/31/22 09:30	09/02/22 08:21
880-18785-13	C-67	Solid	08/31/22 09:32	09/02/22 08:21
880-18785-14	C-68	Solid	08/31/22 09:36	09/02/22 08:21
880-18785-15	C-69	Solid	08/31/22 09:40	09/02/22 08:21
880-18785-16	C-70	Solid	08/31/22 09:45	09/02/22 08:21
880-18785-17	C-71	Solid	08/31/22 09:48	09/02/22 08:21
880-18785-18	C-72	Solid	08/31/22 09:51	09/02/22 08:21
880-18785-19	C-73	Solid	08/31/22 09:54	09/02/22 08:21
880-18785-20	C-74	Solid	08/31/22 09:59	09/02/22 08:21
880-18785-21	C-75	Solid	08/31/22 10:02	09/02/22 08:21
880-18785-22	C-76	Solid	08/31/22 10:06	09/02/22 08:21
880-18785-23	C-77	Solid	08/31/22 10:09	09/02/22 08:21
880-18785-24	C-78	Solid	08/31/22 10:12	09/02/22 08:21
880-18785-25	C-79	Solid	08/31/22 10:15	09/02/22 08:21
880-18785-26	C-80	Solid	08/31/22 10:20	09/02/22 08:21

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18785

No. 2709

CHAIN-OF-CUSTODY

9/12/2022

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE 9/2/2022 PAGE 1 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT # 21-0100-24 COLLECTOR: PM

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION HCl	HNO3	H2SO4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP VOC ☐	TCLP - METALS (RCRA) ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐	TCLP ☐	RCI ☐ TOX ☐	FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐	CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-55		8/29/22	1400	S	1				X		X			X	X	X																					X		
C-56			1404																																				
C-57			1406																																				
C-58			1408																																				
C-59			1410																																				
C-60			1412																																				
C-61			1415																																				
C-62			1418																																				
C-63			1420																																				
C-64			1422																																				
C-65			1425																																				
C-66		8/31/22	0930																																				
C-67			0932																																				
C-68			0934																																				
C-69			0940																																				
TOTAL																																						

880-18785 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	9/2/22 0811	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 2-3/2 ☒ THERM# IR8 .20
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

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18785 No. 2710

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

DATE: 9/2/2022 PAGE 2 OF 2

PO#: _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT #: 21-0100-24 COLLECTOR: PM

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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

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

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	TPH 1005	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	CHLORIDES	FIELD NOTES
C-70		8/31/22	0945	S	1				X		X	X	X	X		X	
C-71			0945														
C-72			0951														
C-73			0954														
C-74			0959														
C-75			1002														
C-76			1004														
C-77			1009														
C-78			1012														
C-79			1015														
C-80			1020														
TOTAL																	

Loc: 880
18785

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	9/2/22 0821	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 2.3/2.5 THERM# IR8 .30
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

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Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

9/12/2022

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-18785-1
SDG Number: 21-0100-24

Login Number: 18785
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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-18812-1
Laboratory Sample Delivery Group: 21-0100-24
Client Project/Site: Limestone 1H

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

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
9/12/2022 5:27:10 PM

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

LINKS

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Have a Question? Ask The Expert

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: Limestone 1H

Laboratory Job ID: 880-18812-1
SDG: 21-0100-24

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Qualifiers

GC/MS VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high 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.
¤	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: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Job ID: 880-18812-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-18812-1

Receipt
The samples were received on 9/6/2022 8:33 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 0.5º C.

GC/MS VOA
Method 8260C: The following samples were diluted due to being a sludge: (820-5624-A-1-J) and (820-5624-A-1-J MS). Elevated reporting limits (RL) are provided. Sample was prepped with methanol from a bulk jar.

Method 8260C: The following sample was diluted due to the nature of the sample matrix: (860-32675-A-13-C MS). Elevated reporting limits (RLs) are provided. Sample prepped with methanol from a bulk jar.

Method 8260C: Surrogate Toluene-d8 recovery for the following samples were outside control limits: (860-32675-A-13-C) and (860-32675-A-13-C MS). 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: Surrogate recovery for the following samples were outside control limits: (LCS 880-33858/2-A) and (LCSD 880-33858/3-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 matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-33841 and analytical batch 880-34084 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: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-1

Lab Sample ID: 880-18812-1
Matrix: Solid
Date Collected: 09/02/22 09:00
Date Received: 09/06/22 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 05:13	1
Toluene	<0.00505	U	0.00505		mg/Kg		09/08/22 16:31	09/09/22 05:13	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 05:13	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 05:13	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 05:13	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 05:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*09/08/22 16:31*	*09/09/22 05:13*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*09/08/22 16:31*	*09/09/22 05:13*	*1*
Dibromofluoromethane (Surr)	*106*		*53 - 142*	*09/08/22 16:31*	*09/09/22 05:13*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*09/08/22 16:31*	*09/09/22 05:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 11:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/06/22 14:15	09/07/22 11:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/06/22 14:15	09/07/22 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/06/22 14:15*	*09/07/22 11:23*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*09/06/22 14:15*	*09/07/22 11:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.6**	**F1**	4.99		mg/Kg			09/10/22 00:03	1

Client Sample ID: BF-2

Lab Sample ID: 880-18812-2
Matrix: Solid
Date Collected: 09/02/22 09:05
Date Received: 09/06/22 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 05:36	1
Toluene	<0.00504	U	0.00504		mg/Kg		09/08/22 16:31	09/09/22 05:36	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 05:36	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 05:36	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 05:36	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*	*09/08/22 16:31*	*09/09/22 05:36*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-2

Date Collected: 09/02/22 09:05
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-2

Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*88*		*68 - 152*	*09/08/22 16:31*	*09/09/22 05:36*	*1*
Dibromofluoromethane (Surr)	*108*		*53 - 142*	*09/08/22 16:31*	*09/09/22 05:36*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*09/08/22 16:31*	*09/09/22 05:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202	mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 12:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/06/22 14:15	09/07/22 12:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/06/22 14:15	09/07/22 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/06/22 14:15*	*09/07/22 12:27*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*09/06/22 14:15*	*09/07/22 12:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.5**		5.02	mg/Kg			09/10/22 00:18	1

Client Sample ID: BF-3

Date Collected: 09/02/22 09:08
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-3

Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101	mg/Kg		09/08/22 16:31	09/09/22 05:59	1
Toluene	<0.00505	U	0.00505	mg/Kg		09/08/22 16:31	09/09/22 05:59	1
Ethylbenzene	<0.00101	U	0.00101	mg/Kg		09/08/22 16:31	09/09/22 05:59	1
m,p-Xylenes	<0.00202	U	0.00202	mg/Kg		09/08/22 16:31	09/09/22 05:59	1
o-Xylene	<0.00101	U	0.00101	mg/Kg		09/08/22 16:31	09/09/22 05:59	1
Xylenes, Total	<0.00202	U	0.00202	mg/Kg		09/08/22 16:31	09/09/22 05:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*	*09/08/22 16:31*	*09/09/22 05:59*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*09/08/22 16:31*	*09/09/22 05:59*	*1*
Dibromofluoromethane (Surr)	*106*		*53 - 142*	*09/08/22 16:31*	*09/09/22 05:59*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*09/08/22 16:31*	*09/09/22 05:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202	mg/Kg			09/09/22 17:59	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-3

Date Collected: 09/02/22 09:08
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-3

Matrix: Solid

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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 12:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/06/22 14:15	09/07/22 12:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/06/22 14:15	09/07/22 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*09/06/22 14:15*	*09/07/22 12:49*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/06/22 14:15*	*09/07/22 12:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.0**		5.04		mg/Kg			09/10/22 00:22	1

Client Sample ID: BF-4

Date Collected: 09/02/22 09:10
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-4

Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		09/08/22 16:31	09/09/22 06:22	1
Toluene	<0.00496	U	0.00496		mg/Kg		09/08/22 16:31	09/09/22 06:22	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		09/08/22 16:31	09/09/22 06:22	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		09/08/22 16:31	09/09/22 06:22	1
o-Xylene	<0.000992	U	0.000992		mg/Kg		09/08/22 16:31	09/09/22 06:22	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		09/08/22 16:31	09/09/22 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*	*09/08/22 16:31*	*09/09/22 06:22*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 152*	*09/08/22 16:31*	*09/09/22 06:22*	*1*
Dibromofluoromethane (Surr)	*105*		*53 - 142*	*09/08/22 16:31*	*09/09/22 06:22*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*09/08/22 16:31*	*09/09/22 06:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 13:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/06/22 14:15	09/07/22 13:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/06/22 14:15	09/07/22 13:10	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-4

Date Collected: 09/02/22 09:10
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-4

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*09/06/22 14:15*	*09/07/22 13:10*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*09/06/22 14:15*	*09/07/22 13:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.7**		5.03		mg/Kg			09/10/22 00:27	1

Client Sample ID: BF-5

Date Collected: 09/02/22 09:15
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-5

Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 06:45	1
Toluene	<0.00505	U	0.00505		mg/Kg		09/08/22 16:31	09/09/22 06:45	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 06:45	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 06:45	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 06:45	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 06:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*09/08/22 16:31*	*09/09/22 06:45*	*1*
4-Bromofluorobenzene (Surr)	*92*		*68 - 152*	*09/08/22 16:31*	*09/09/22 06:45*	*1*
Dibromofluoromethane (Surr)	*107*		*53 - 142*	*09/08/22 16:31*	*09/09/22 06:45*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*	*09/08/22 16:31*	*09/09/22 06:45*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 13:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/06/22 14:15	09/07/22 13:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/06/22 14:15	09/07/22 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*09/06/22 14:15*	*09/07/22 13:31*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*09/06/22 14:15*	*09/07/22 13:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.2**		5.00		mg/Kg			09/10/22 00:32	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-6

Date Collected: 09/02/22 09:18
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-6
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 07:08	1
Toluene	<0.00505	U	0.00505		mg/Kg		09/08/22 16:31	09/09/22 07:08	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 07:08	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 07:08	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 07:08	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 07:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*	*09/08/22 16:31*	*09/09/22 07:08*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 152*	*09/08/22 16:31*	*09/09/22 07:08*	*1*
Dibromofluoromethane (Surr)	*104*		*53 - 142*	*09/08/22 16:31*	*09/09/22 07:08*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*09/08/22 16:31*	*09/09/22 07:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 13:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 13:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*09/06/22 14:15*	*09/07/22 13:53*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*09/06/22 14:15*	*09/07/22 13:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.2**		5.00		mg/Kg			09/10/22 00:47	1

Client Sample ID: BF-7

Date Collected: 09/02/22 09:21
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-7
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996		mg/Kg		09/08/22 16:31	09/09/22 07:31	1
Toluene	<0.00498	U	0.00498		mg/Kg		09/08/22 16:31	09/09/22 07:31	1
Ethylbenzene	<0.000996	U	0.000996		mg/Kg		09/08/22 16:31	09/09/22 07:31	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		09/08/22 16:31	09/09/22 07:31	1
o-Xylene	<0.000996	U	0.000996		mg/Kg		09/08/22 16:31	09/09/22 07:31	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		09/08/22 16:31	09/09/22 07:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*56 - 150*	*09/08/22 16:31*	*09/09/22 07:31*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-7

Date Collected: 09/02/22 09:21
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-7

Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*68 - 152*	*09/08/22 16:31*	*09/09/22 07:31*	*1*
Dibromofluoromethane (Surr)	*112*		*53 - 142*	*09/08/22 16:31*	*09/09/22 07:31*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*	*09/08/22 16:31*	*09/09/22 07:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199	mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 14:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/06/22 14:15	09/07/22 14:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/06/22 14:15	09/07/22 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/06/22 14:15*	*09/07/22 14:14*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*09/06/22 14:15*	*09/07/22 14:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.7**		4.96	mg/Kg			09/10/22 00:51	1

Client Sample ID: BF-8

Date Collected: 09/02/22 09:28
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-8

Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101	mg/Kg		09/08/22 16:31	09/09/22 07:53	1
Toluene	<0.00505	U	0.00505	mg/Kg		09/08/22 16:31	09/09/22 07:53	1
Ethylbenzene	<0.00101	U	0.00101	mg/Kg		09/08/22 16:31	09/09/22 07:53	1
m,p-Xylenes	<0.00202	U	0.00202	mg/Kg		09/08/22 16:31	09/09/22 07:53	1
o-Xylene	<0.00101	U	0.00101	mg/Kg		09/08/22 16:31	09/09/22 07:53	1
Xylenes, Total	<0.00202	U	0.00202	mg/Kg		09/08/22 16:31	09/09/22 07:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*	*09/08/22 16:31*	*09/09/22 07:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*09/08/22 16:31*	*09/09/22 07:53*	*1*
Dibromofluoromethane (Surr)	*108*		*53 - 142*	*09/08/22 16:31*	*09/09/22 07:53*	*1*
Toluene-d8 (Surr)	*82*		*70 - 130*	*09/08/22 16:31*	*09/09/22 07:53*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202	mg/Kg			09/09/22 17:59	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-8

Date Collected: 09/02/22 09:28
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-8
Matrix: Solid

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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 14:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 14:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*09/06/22 14:15*	*09/07/22 14:36*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*09/06/22 14:15*	*09/07/22 14:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.1**		4.98		mg/Kg			09/10/22 00:56	1

Client Sample ID: BF-9

Date Collected: 09/02/22 09:31
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-9
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		09/08/22 16:31	09/09/22 08:16	1
Toluene	<0.00501	U	0.00501		mg/Kg		09/08/22 16:31	09/09/22 08:16	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		09/08/22 16:31	09/09/22 08:16	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		09/08/22 16:31	09/09/22 08:16	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		09/08/22 16:31	09/09/22 08:16	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		09/08/22 16:31	09/09/22 08:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*56 - 150*	*09/08/22 16:31*	*09/09/22 08:16*	*1*
4-Bromofluorobenzene (Surr)	*88*		*68 - 152*	*09/08/22 16:31*	*09/09/22 08:16*	*1*
Dibromofluoromethane (Surr)	*112*		*53 - 142*	*09/08/22 16:31*	*09/09/22 08:16*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*	*09/08/22 16:31*	*09/09/22 08:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 14:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 14:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 14:57	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-9

Date Collected: 09/02/22 09:31
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-9
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*09/06/22 14:15*	*09/07/22 14:57*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*09/06/22 14:15*	*09/07/22 14:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.9**		5.04	mg/Kg			09/10/22 01:01	1

Client Sample ID: BF-10

Date Collected: 09/02/22 09:35
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-10
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101	mg/Kg		09/08/22 16:31	09/09/22 08:39	1
Toluene	<0.00504	U	0.00504	mg/Kg		09/08/22 16:31	09/09/22 08:39	1
Ethylbenzene	<0.00101	U	0.00101	mg/Kg		09/08/22 16:31	09/09/22 08:39	1
m,p-Xylenes	<0.00202	U	0.00202	mg/Kg		09/08/22 16:31	09/09/22 08:39	1
o-Xylene	<0.00101	U	0.00101	mg/Kg		09/08/22 16:31	09/09/22 08:39	1
Xylenes, Total	<0.00202	U	0.00202	mg/Kg		09/08/22 16:31	09/09/22 08:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*56 - 150*	*09/08/22 16:31*	*09/09/22 08:39*	*1*
4-Bromofluorobenzene (Surr)	*91*		*68 - 152*	*09/08/22 16:31*	*09/09/22 08:39*	*1*
Dibromofluoromethane (Surr)	*105*		*53 - 142*	*09/08/22 16:31*	*09/09/22 08:39*	*1*
Toluene-d8 (Surr)	*84*		*70 - 130*	*09/08/22 16:31*	*09/09/22 08:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202	mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 15:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/06/22 14:15	09/07/22 15:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/06/22 14:15	09/07/22 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*09/06/22 14:15*	*09/07/22 15:19*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/06/22 14:15*	*09/07/22 15:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.9**		5.05	mg/Kg			09/10/22 01:06	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-11

Date Collected: 09/02/22 09:38
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-11
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 09:02	1
Toluene	<0.00505	U	0.00505		mg/Kg		09/08/22 16:31	09/09/22 09:02	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 09:02	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 09:02	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 09:02	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 09:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*56 - 150*	*09/08/22 16:31*	*09/09/22 09:02*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 152*	*09/08/22 16:31*	*09/09/22 09:02*	*1*
Dibromofluoromethane (Surr)	*108*		*53 - 142*	*09/08/22 16:31*	*09/09/22 09:02*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*09/08/22 16:31*	*09/09/22 09:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 16:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 16:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*09/06/22 14:15*	*09/07/22 16:02*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*09/06/22 14:15*	*09/07/22 16:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.6**		5.00		mg/Kg			09/10/22 01:11	1

Client Sample ID: BF-12

Date Collected: 09/02/22 09:40
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-12
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990		mg/Kg		09/08/22 16:31	09/09/22 13:20	1
Toluene	<0.00495	U	0.00495		mg/Kg		09/08/22 16:31	09/09/22 13:20	1
Ethylbenzene	<0.000990	U	0.000990		mg/Kg		09/08/22 16:31	09/09/22 13:20	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		09/08/22 16:31	09/09/22 13:20	1
o-Xylene	<0.000990	U	0.000990		mg/Kg		09/08/22 16:31	09/09/22 13:20	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		09/08/22 16:31	09/09/22 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*09/08/22 16:31*	*09/09/22 13:20*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-12

Date Collected: 09/02/22 09:40
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-12
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*68 - 152*	*09/08/22 16:31*	*09/09/22 13:20*	*1*
Dibromofluoromethane (Surr)	*84*		*53 - 142*	*09/08/22 16:31*	*09/09/22 13:20*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*09/08/22 16:31*	*09/09/22 13:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198	mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 16:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/06/22 14:15	09/07/22 16:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/06/22 14:15	09/07/22 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*125*		*70 - 130*	*09/06/22 14:15*	*09/07/22 16:24*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*09/06/22 14:15*	*09/07/22 16:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.3**		4.97	mg/Kg			09/10/22 01:25	1

Client Sample ID: BF-13

Date Collected: 09/02/22 09:41
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-13
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101	mg/Kg		09/08/22 16:31	09/09/22 13:44	1
Toluene	<0.00505	U	0.00505	mg/Kg		09/08/22 16:31	09/09/22 13:44	1
Ethylbenzene	<0.00101	U	0.00101	mg/Kg		09/08/22 16:31	09/09/22 13:44	1
m,p-Xylenes	<0.00202	U	0.00202	mg/Kg		09/08/22 16:31	09/09/22 13:44	1
o-Xylene	<0.00101	U	0.00101	mg/Kg		09/08/22 16:31	09/09/22 13:44	1
Xylenes, Total	<0.00202	U	0.00202	mg/Kg		09/08/22 16:31	09/09/22 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*09/08/22 16:31*	*09/09/22 13:44*	*1*
4-Bromofluorobenzene (Surr)	*111*		*68 - 152*	*09/08/22 16:31*	*09/09/22 13:44*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*09/08/22 16:31*	*09/09/22 13:44*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*09/08/22 16:31*	*09/09/22 13:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202	mg/Kg			09/09/22 17:59	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-13

Date Collected: 09/02/22 09:41
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-13
Matrix: Solid

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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 16:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 16:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/06/22 14:15*	*09/07/22 16:45*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*09/06/22 14:15*	*09/07/22 16:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.0**		4.99		mg/Kg			09/10/22 01:30	1

Client Sample ID: BF-14

Date Collected: 09/02/22 09:45
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-14
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990		mg/Kg		09/08/22 16:31	09/09/22 14:07	1
Toluene	<0.00495	U	0.00495		mg/Kg		09/08/22 16:31	09/09/22 14:07	1
Ethylbenzene	<0.000990	U	0.000990		mg/Kg		09/08/22 16:31	09/09/22 14:07	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		09/08/22 16:31	09/09/22 14:07	1
o-Xylene	<0.000990	U	0.000990		mg/Kg		09/08/22 16:31	09/09/22 14:07	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		09/08/22 16:31	09/09/22 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*09/08/22 16:31*	*09/09/22 14:07*	*1*
4-Bromofluorobenzene (Surr)	*108*		*68 - 152*	*09/08/22 16:31*	*09/09/22 14:07*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*09/08/22 16:31*	*09/09/22 14:07*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*09/08/22 16:31*	*09/09/22 14:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 17:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/06/22 14:15	09/07/22 17:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/06/22 14:15	09/07/22 17:07	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-14

Date Collected: 09/02/22 09:45
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-14
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*09/06/22 14:15*	*09/07/22 17:07*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*09/06/22 14:15*	*09/07/22 17:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.4**		4.95		mg/Kg			09/10/22 01:45	1

Client Sample ID: BF-15

Date Collected: 09/02/22 09:48
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-15
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		09/08/22 16:31	09/09/22 10:33	1
Toluene	<0.00496	U	0.00496		mg/Kg		09/08/22 16:31	09/09/22 10:33	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		09/08/22 16:31	09/09/22 10:33	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		09/08/22 16:31	09/09/22 10:33	1
o-Xylene	<0.000992	U	0.000992		mg/Kg		09/08/22 16:31	09/09/22 10:33	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		09/08/22 16:31	09/09/22 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*	*09/08/22 16:31*	*09/09/22 10:33*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*09/08/22 16:31*	*09/09/22 10:33*	*1*
Dibromofluoromethane (Surr)	*102*		*53 - 142*	*09/08/22 16:31*	*09/09/22 10:33*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*09/08/22 16:31*	*09/09/22 10:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 17:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/06/22 14:15	09/07/22 17:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/06/22 14:15	09/07/22 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/06/22 14:15*	*09/07/22 17:28*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*09/06/22 14:15*	*09/07/22 17:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.8**		4.96		mg/Kg			09/10/22 01:50	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-16

Date Collected: 09/02/22 09:50
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-16
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990		mg/Kg		09/08/22 16:31	09/09/22 10:56	1
Toluene	<0.00495	U	0.00495		mg/Kg		09/08/22 16:31	09/09/22 10:56	1
Ethylbenzene	<0.000990	U	0.000990		mg/Kg		09/08/22 16:31	09/09/22 10:56	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		09/08/22 16:31	09/09/22 10:56	1
o-Xylene	<0.000990	U	0.000990		mg/Kg		09/08/22 16:31	09/09/22 10:56	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		09/08/22 16:31	09/09/22 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*09/08/22 16:31*	*09/09/22 10:56*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*09/08/22 16:31*	*09/09/22 10:56*	*1*
Dibromofluoromethane (Surr)	*106*		*53 - 142*	*09/08/22 16:31*	*09/09/22 10:56*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*	*09/08/22 16:31*	*09/09/22 10:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 17:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/06/22 14:15	09/07/22 17:50	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/06/22 14:15	09/07/22 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*09/06/22 14:15*	*09/07/22 17:50*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*09/06/22 14:15*	*09/07/22 17:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.7**		4.96		mg/Kg			09/10/22 01:55	1

Client Sample ID: BF-17

Date Collected: 09/02/22 09:52
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-17
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 11:19	1
Toluene	<0.00505	U	0.00505		mg/Kg		09/08/22 16:31	09/09/22 11:19	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 11:19	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 11:19	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 11:19	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*56 - 150*	*09/08/22 16:31*	*09/09/22 11:19*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-17

Date Collected: 09/02/22 09:52
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-17
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*09/08/22 16:31*	*09/09/22 11:19*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*09/08/22 16:31*	*09/09/22 11:19*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*	*09/08/22 16:31*	*09/09/22 11:19*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202	mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 18:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/06/22 14:15	09/07/22 18:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/06/22 14:15	09/07/22 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	*100*		*70 - 130*	*09/06/22 14:15*	*09/07/22 18:11*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*09/06/22 14:15*	*09/07/22 18:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.5**		5.03	mg/Kg			09/10/22 01:59	1

Client Sample ID: BF-18

Date Collected: 09/02/22 09:55
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-18
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996	mg/Kg		09/08/22 16:31	09/09/22 14:30	1
Toluene	<0.00498	U	0.00498	mg/Kg		09/08/22 16:31	09/09/22 14:30	1
Ethylbenzene	<0.000996	U	0.000996	mg/Kg		09/08/22 16:31	09/09/22 14:30	1
m,p-Xylenes	<0.00199	U	0.00199	mg/Kg		09/08/22 16:31	09/09/22 14:30	1
o-Xylene	<0.000996	U	0.000996	mg/Kg		09/08/22 16:31	09/09/22 14:30	1
Xylenes, Total	<0.00199	U	0.00199	mg/Kg		09/08/22 16:31	09/09/22 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*09/08/22 16:31*	*09/09/22 14:30*	*1*
4-Bromofluorobenzene (Surr)	*111*		*68 - 152*	*09/08/22 16:31*	*09/09/22 14:30*	*1*
Dibromofluoromethane (Surr)	*92*		*53 - 142*	*09/08/22 16:31*	*09/09/22 14:30*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*09/08/22 16:31*	*09/09/22 14:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199	mg/Kg			09/09/22 17:59	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-18

Lab Sample ID: 880-18812-18
Matrix: Solid
Date Collected: 09/02/22 09:55
Date Received: 09/06/22 08:33

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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 18:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/06/22 14:15	09/07/22 18:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/06/22 14:15	09/07/22 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*09/06/22 14:15*	*09/07/22 18:33*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*09/06/22 14:15*	*09/07/22 18:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.60**		4.97		mg/Kg			09/10/22 02:04	1

Client Sample ID: BF-19

Lab Sample ID: 880-18812-19
Matrix: Solid
Date Collected: 09/02/22 10:07
Date Received: 09/06/22 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 12:04	1
Toluene	<0.00505	U	0.00505		mg/Kg		09/08/22 16:31	09/09/22 12:04	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 12:04	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 12:04	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		09/08/22 16:31	09/09/22 12:04	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		09/08/22 16:31	09/09/22 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*09/08/22 16:31*	*09/09/22 12:04*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*09/08/22 16:31*	*09/09/22 12:04*	*1*
Dibromofluoromethane (Surr)	*101*		*53 - 142*	*09/08/22 16:31*	*09/09/22 12:04*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*	*09/08/22 16:31*	*09/09/22 12:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			09/09/22 17:59	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 18:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 18:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 18:54	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-19
Date Collected: 09/02/22 10:07
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-19
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/06/22 14:15*	*09/07/22 18:54*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*09/06/22 14:15*	*09/07/22 18:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.1**		5.00		mg/Kg			09/10/22 02:09	1

Client Sample ID: BF-20
Date Collected: 09/02/22 10:09
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-20
Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		09/09/22 13:54	09/09/22 16:04	1
Toluene	<0.00500	U	0.00500		mg/Kg		09/09/22 13:54	09/09/22 16:04	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		09/09/22 13:54	09/09/22 16:04	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		09/09/22 13:54	09/09/22 16:04	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		09/09/22 13:54	09/09/22 16:04	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		09/09/22 13:54	09/09/22 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*	*09/09/22 13:54*	*09/09/22 16:04*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*09/09/22 13:54*	*09/09/22 16:04*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*09/09/22 13:54*	*09/09/22 16:04*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*09/09/22 13:54*	*09/09/22 16:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			09/12/22 11:49	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			09/08/22 10:26	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		09/06/22 14:15	09/07/22 19:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 19:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/06/22 14:15	09/07/22 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*09/06/22 14:15*	*09/07/22 19:16*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*09/06/22 14:15*	*09/07/22 19:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.3**		5.01		mg/Kg			09/10/22 02:14	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
880-18812-1	BF-1	104	101	106	93
880-18812-2	BF-2	99	88	108	94
880-18812-3	BF-3	109	101	106	93
880-18812-4	BF-4	106	94	105	94
880-18812-5	BF-5	101	92	107	92
880-18812-6	BF-6	106	94	104	100
880-18812-7	BF-7	110	105	112	92
880-18812-8	BF-8	108	99	108	82
880-18812-9	BF-9	88	88	112	88
880-18812-10	BF-10	117	91	105	84
880-18812-11	BF-11	113	93	108	95
880-18812-12	BF-12	103	114	84	107
880-18812-13	BF-13	105	111	91	105
880-18812-14	BF-14	102	108	91	105
880-18812-15	BF-15	97	97	102	93
880-18812-16	BF-16	104	97	106	90
880-18812-17	BF-17	117	96	96	89
880-18812-18	BF-18	103	111	92	105
880-18812-19	BF-19	100	98	101	90
880-18812-20	BF-20	107	102	91	104
LCS 860-68352/3	Lab Control Sample	99	96	97	93
LCS 860-68388/3	Lab Control Sample	106	109	98	101
LCSD 860-68352/4	Lab Control Sample Dup	101	96	102	91
LCSD 860-68388/4	Lab Control Sample Dup	102	108	92	100
MB 860-68352/9	Method Blank	108	97	99	93
MB 860-68388/8	Method Blank	93	117	86	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-18812-1	BF-1	104	102
880-18812-1 MS	BF-1	85	76
880-18812-1 MSD	BF-1	95	77
880-18812-2	BF-2	104	102
880-18812-3	BF-3	100	98
880-18812-4	BF-4	118	114
880-18812-5	BF-5	116	112
880-18812-6	BF-6	122	116
880-18812-7	BF-7	104	102
880-18812-8	BF-8	99	99
880-18812-9	BF-9	122	115

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-18812-1
Project/Site: Limestone 1H SDG: 21-0100-24

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)								
880-18812-10	BF-10	100	98								
880-18812-11	BF-11	118	113								
880-18812-12	BF-12	125	120								
880-18812-13	BF-13	104	101								
880-18812-14	BF-14	122	117								
880-18812-15	BF-15	104	102								
880-18812-16	BF-16	118	114								
880-18812-17	BF-17	100	96								
880-18812-18	BF-18	121	116								
880-18812-19	BF-19	102	99								
880-18812-20	BF-20	114	109								
LCS 880-33858/2-A	Lab Control Sample	144 S1+	121								
LCSD 880-33858/3-A	Lab Control Sample Dup	141 S1+	112								
MB 880-33858/1-A	Method Blank	112	112								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-68352/9
Matrix: Solid
Analysis Batch: 68352

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			09/09/22 04:28	1
Toluene	<0.00500	U	0.00500		mg/Kg			09/09/22 04:28	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			09/09/22 04:28	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			09/09/22 04:28	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			09/09/22 04:28	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			09/09/22 04:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*		*09/09/22 04:28*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*		*09/09/22 04:28*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*		*09/09/22 04:28*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*09/09/22 04:28*	*1*

Lab Sample ID: LCS 860-68352/3
Matrix: Solid
Analysis Batch: 68352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.05107		mg/Kg		102	66 - 142		
Toluene			0.0500	0.04736		mg/Kg		95	74 - 130		
Ethylbenzene			0.0500	0.04915		mg/Kg		98	80 - 130		
m,p-Xylenes			0.0500	0.04791		mg/Kg		96	78 - 130		
o-Xylene			0.0500	0.05013		mg/Kg		100	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 860-68352/4
Matrix: Solid
Analysis Batch: 68352

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04904		mg/Kg		98	66 - 142	4	25
Toluene			0.0500	0.04447		mg/Kg		89	74 - 130	6	25
Ethylbenzene			0.0500	0.04616		mg/Kg		92	80 - 130	6	25
m,p-Xylenes			0.0500	0.04457		mg/Kg		89	78 - 130	7	25
o-Xylene			0.0500	0.04629		mg/Kg		93	79 - 130	8	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*
Dibromofluoromethane (Surr)	*102*		*53 - 142*
Toluene-d8 (Surr)	*91*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-68388/8
Matrix: Solid
Analysis Batch: 68388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			09/09/22 12:34	1
Toluene	<0.00500	U	0.00500		mg/Kg			09/09/22 12:34	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			09/09/22 12:34	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			09/09/22 12:34	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			09/09/22 12:34	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			09/09/22 12:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*56 - 150*		*09/09/22 12:34*	*1*
4-Bromofluorobenzene (Surr)	*117*		*68 - 152*		*09/09/22 12:34*	*1*
Dibromofluoromethane (Surr)	*86*		*53 - 142*		*09/09/22 12:34*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/09/22 12:34*	*1*

Lab Sample ID: LCS 860-68388/3
Matrix: Solid
Analysis Batch: 68388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.04406		mg/Kg		88	66 - 142		
Toluene			0.0500	0.04360		mg/Kg		87	74 - 130		
Ethylbenzene			0.0500	0.04919		mg/Kg		98	80 - 130		
m,p-Xylenes			0.0500	0.05137		mg/Kg		103	78 - 130		
o-Xylene			0.0500	0.04762		mg/Kg		95	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*
Dibromofluoromethane (Surr)	*98*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 860-68388/4
Matrix: Solid
Analysis Batch: 68388

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04714		mg/Kg		94	66 - 142	7	25
Toluene			0.0500	0.04944		mg/Kg		99	74 - 130	13	25
Ethylbenzene			0.0500	0.05475		mg/Kg		109	80 - 130	11	25
m,p-Xylenes			0.0500	0.05691		mg/Kg		114	78 - 130	10	25
o-Xylene			0.0500	0.05320		mg/Kg		106	79 - 130	11	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*
4-Bromofluorobenzene (Surr)	*108*		*68 - 152*
Dibromofluoromethane (Surr)	*92*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-33858/1-A
Matrix: Solid
Analysis Batch: 33875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33858

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		09/06/22 14:15	09/07/22 10:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/06/22 14:15	09/07/22 10:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/06/22 14:15	09/07/22 10:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*09/06/22 14:15*	*09/07/22 10:19*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*09/06/22 14:15*	*09/07/22 10:19*	*1*

Lab Sample ID: LCS 880-33858/2-A
Matrix: Solid
Analysis Batch: 33875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33858

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	848.7		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	953.9		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*144*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*121*		*70 - 130*

Lab Sample ID: LCSD 880-33858/3-A
Matrix: Solid
Analysis Batch: 33875

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33858

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	865.4		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	882.1		mg/Kg		88	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*141*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-18812-1 MS
Matrix: Solid
Analysis Batch: 33875

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 33858

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	999	885.2		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	907.5		mg/Kg		89	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

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

Lab Sample ID: 880-18812-1 MS
Matrix: Solid
Analysis Batch: 33875

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 33858

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*85*		*70 - 130*
o-Terphenyl (Surr)	*76*		*70 - 130*

Lab Sample ID: 880-18812-1 MSD
Matrix: Solid
Analysis Batch: 33875

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 33858

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	996	853.2		mg/Kg		86	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	920.8		mg/Kg		90	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*95*		*70 - 130*
o-Terphenyl (Surr)	*77*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33841/1-A
Matrix: Solid
Analysis Batch: 34084

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			09/09/22 23:48	1

Lab Sample ID: LCS 880-33841/2-A
Matrix: Solid
Analysis Batch: 34084

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.9		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-33841/3-A
Matrix: Solid
Analysis Batch: 34084

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	246.4		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-18812-1 MS
Matrix: Solid
Analysis Batch: 34084

Client Sample ID: BF-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	10.6	F1	250	289.2	F1	mg/Kg		112	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-18812-1 MSD
Matrix: Solid
Analysis Batch: 34084

Client Sample ID: BF-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.6	F1	250	287.5	F1	mg/Kg		111	90 - 110	1	20

Lab Sample ID: 880-18812-11 MS
Matrix: Solid
Analysis Batch: 34084

Client Sample ID: BF-11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	17.6		250	291.7		mg/Kg		110	90 - 110

Lab Sample ID: 880-18812-11 MSD
Matrix: Solid
Analysis Batch: 34084

Client Sample ID: BF-11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	17.6		250	293.6		mg/Kg		110	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

GC/MS VOA

Prep Batch: 68338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-1	BF-1	Total/NA	Solid	5035	
880-18812-2	BF-2	Total/NA	Solid	5035	
880-18812-3	BF-3	Total/NA	Solid	5035	
880-18812-4	BF-4	Total/NA	Solid	5035	
880-18812-5	BF-5	Total/NA	Solid	5035	
880-18812-6	BF-6	Total/NA	Solid	5035	
880-18812-7	BF-7	Total/NA	Solid	5035	
880-18812-8	BF-8	Total/NA	Solid	5035	
880-18812-9	BF-9	Total/NA	Solid	5035	
880-18812-10	BF-10	Total/NA	Solid	5035	
880-18812-11	BF-11	Total/NA	Solid	5035	
880-18812-12	BF-12	Total/NA	Solid	5035	
880-18812-13	BF-13	Total/NA	Solid	5035	
880-18812-14	BF-14	Total/NA	Solid	5035	
880-18812-15	BF-15	Total/NA	Solid	5035	
880-18812-16	BF-16	Total/NA	Solid	5035	
880-18812-17	BF-17	Total/NA	Solid	5035	
880-18812-18	BF-18	Total/NA	Solid	5035	
880-18812-19	BF-19	Total/NA	Solid	5035	

Analysis Batch: 68352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-1	BF-1	Total/NA	Solid	8260C	68338
880-18812-2	BF-2	Total/NA	Solid	8260C	68338
880-18812-3	BF-3	Total/NA	Solid	8260C	68338
880-18812-4	BF-4	Total/NA	Solid	8260C	68338
880-18812-5	BF-5	Total/NA	Solid	8260C	68338
880-18812-6	BF-6	Total/NA	Solid	8260C	68338
880-18812-7	BF-7	Total/NA	Solid	8260C	68338
880-18812-8	BF-8	Total/NA	Solid	8260C	68338
880-18812-9	BF-9	Total/NA	Solid	8260C	68338
880-18812-10	BF-10	Total/NA	Solid	8260C	68338
880-18812-11	BF-11	Total/NA	Solid	8260C	68338
880-18812-15	BF-15	Total/NA	Solid	8260C	68338
880-18812-16	BF-16	Total/NA	Solid	8260C	68338
880-18812-17	BF-17	Total/NA	Solid	8260C	68338
880-18812-19	BF-19	Total/NA	Solid	8260C	68338
MB 860-68352/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-68352/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-68352/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 68388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-12	BF-12	Total/NA	Solid	8260C	68338
880-18812-13	BF-13	Total/NA	Solid	8260C	68338
880-18812-14	BF-14	Total/NA	Solid	8260C	68338
880-18812-18	BF-18	Total/NA	Solid	8260C	68338
880-18812-20	BF-20	Total/NA	Solid	8260C	68481
MB 860-68388/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-68388/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-68388/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

GC/MS VOA

Prep Batch: 68481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-20	BF-20	Total/NA	Solid	5035	

Analysis Batch: 68527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-1	BF-1	Total/NA	Solid	Total BTEX	
880-18812-2	BF-2	Total/NA	Solid	Total BTEX	
880-18812-3	BF-3	Total/NA	Solid	Total BTEX	
880-18812-4	BF-4	Total/NA	Solid	Total BTEX	
880-18812-5	BF-5	Total/NA	Solid	Total BTEX	
880-18812-6	BF-6	Total/NA	Solid	Total BTEX	
880-18812-7	BF-7	Total/NA	Solid	Total BTEX	
880-18812-8	BF-8	Total/NA	Solid	Total BTEX	
880-18812-9	BF-9	Total/NA	Solid	Total BTEX	
880-18812-10	BF-10	Total/NA	Solid	Total BTEX	
880-18812-11	BF-11	Total/NA	Solid	Total BTEX	
880-18812-12	BF-12	Total/NA	Solid	Total BTEX	
880-18812-13	BF-13	Total/NA	Solid	Total BTEX	
880-18812-14	BF-14	Total/NA	Solid	Total BTEX	
880-18812-15	BF-15	Total/NA	Solid	Total BTEX	
880-18812-16	BF-16	Total/NA	Solid	Total BTEX	
880-18812-17	BF-17	Total/NA	Solid	Total BTEX	
880-18812-18	BF-18	Total/NA	Solid	Total BTEX	
880-18812-19	BF-19	Total/NA	Solid	Total BTEX	

Analysis Batch: 68659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-20	BF-20	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 33858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-1	BF-1	Total/NA	Solid	8015NM Prep	
880-18812-2	BF-2	Total/NA	Solid	8015NM Prep	
880-18812-3	BF-3	Total/NA	Solid	8015NM Prep	
880-18812-4	BF-4	Total/NA	Solid	8015NM Prep	
880-18812-5	BF-5	Total/NA	Solid	8015NM Prep	
880-18812-6	BF-6	Total/NA	Solid	8015NM Prep	
880-18812-7	BF-7	Total/NA	Solid	8015NM Prep	
880-18812-8	BF-8	Total/NA	Solid	8015NM Prep	
880-18812-9	BF-9	Total/NA	Solid	8015NM Prep	
880-18812-10	BF-10	Total/NA	Solid	8015NM Prep	
880-18812-11	BF-11	Total/NA	Solid	8015NM Prep	
880-18812-12	BF-12	Total/NA	Solid	8015NM Prep	
880-18812-13	BF-13	Total/NA	Solid	8015NM Prep	
880-18812-14	BF-14	Total/NA	Solid	8015NM Prep	
880-18812-15	BF-15	Total/NA	Solid	8015NM Prep	
880-18812-16	BF-16	Total/NA	Solid	8015NM Prep	
880-18812-17	BF-17	Total/NA	Solid	8015NM Prep	
880-18812-18	BF-18	Total/NA	Solid	8015NM Prep	
880-18812-19	BF-19	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Prep Batch: 33858 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-20	BF-20	Total/NA	Solid	8015NM Prep	
MB 880-33858/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33858/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33858/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18812-1 MS	BF-1	Total/NA	Solid	8015NM Prep	
880-18812-1 MSD	BF-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-1	BF-1	Total/NA	Solid	8015B NM	33858
880-18812-2	BF-2	Total/NA	Solid	8015B NM	33858
880-18812-3	BF-3	Total/NA	Solid	8015B NM	33858
880-18812-4	BF-4	Total/NA	Solid	8015B NM	33858
880-18812-5	BF-5	Total/NA	Solid	8015B NM	33858
880-18812-6	BF-6	Total/NA	Solid	8015B NM	33858
880-18812-7	BF-7	Total/NA	Solid	8015B NM	33858
880-18812-8	BF-8	Total/NA	Solid	8015B NM	33858
880-18812-9	BF-9	Total/NA	Solid	8015B NM	33858
880-18812-10	BF-10	Total/NA	Solid	8015B NM	33858
880-18812-11	BF-11	Total/NA	Solid	8015B NM	33858
880-18812-12	BF-12	Total/NA	Solid	8015B NM	33858
880-18812-13	BF-13	Total/NA	Solid	8015B NM	33858
880-18812-14	BF-14	Total/NA	Solid	8015B NM	33858
880-18812-15	BF-15	Total/NA	Solid	8015B NM	33858
880-18812-16	BF-16	Total/NA	Solid	8015B NM	33858
880-18812-17	BF-17	Total/NA	Solid	8015B NM	33858
880-18812-18	BF-18	Total/NA	Solid	8015B NM	33858
880-18812-19	BF-19	Total/NA	Solid	8015B NM	33858
880-18812-20	BF-20	Total/NA	Solid	8015B NM	33858
MB 880-33858/1-A	Method Blank	Total/NA	Solid	8015B NM	33858
LCS 880-33858/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33858
LCSD 880-33858/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33858
880-18812-1 MS	BF-1	Total/NA	Solid	8015B NM	33858
880-18812-1 MSD	BF-1	Total/NA	Solid	8015B NM	33858

Analysis Batch: 34006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-1	BF-1	Total/NA	Solid	8015 NM	
880-18812-2	BF-2	Total/NA	Solid	8015 NM	
880-18812-3	BF-3	Total/NA	Solid	8015 NM	
880-18812-4	BF-4	Total/NA	Solid	8015 NM	
880-18812-5	BF-5	Total/NA	Solid	8015 NM	
880-18812-6	BF-6	Total/NA	Solid	8015 NM	
880-18812-7	BF-7	Total/NA	Solid	8015 NM	
880-18812-8	BF-8	Total/NA	Solid	8015 NM	
880-18812-9	BF-9	Total/NA	Solid	8015 NM	
880-18812-10	BF-10	Total/NA	Solid	8015 NM	
880-18812-11	BF-11	Total/NA	Solid	8015 NM	
880-18812-12	BF-12	Total/NA	Solid	8015 NM	
880-18812-13	BF-13	Total/NA	Solid	8015 NM	
880-18812-14	BF-14	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 34006 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-15	BF-15	Total/NA	Solid	8015 NM	
880-18812-16	BF-16	Total/NA	Solid	8015 NM	
880-18812-17	BF-17	Total/NA	Solid	8015 NM	
880-18812-18	BF-18	Total/NA	Solid	8015 NM	
880-18812-19	BF-19	Total/NA	Solid	8015 NM	
880-18812-20	BF-20	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 33841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-1	BF-1	Soluble	Solid	DI Leach	
880-18812-2	BF-2	Soluble	Solid	DI Leach	
880-18812-3	BF-3	Soluble	Solid	DI Leach	
880-18812-4	BF-4	Soluble	Solid	DI Leach	
880-18812-5	BF-5	Soluble	Solid	DI Leach	
880-18812-6	BF-6	Soluble	Solid	DI Leach	
880-18812-7	BF-7	Soluble	Solid	DI Leach	
880-18812-8	BF-8	Soluble	Solid	DI Leach	
880-18812-9	BF-9	Soluble	Solid	DI Leach	
880-18812-10	BF-10	Soluble	Solid	DI Leach	
880-18812-11	BF-11	Soluble	Solid	DI Leach	
880-18812-12	BF-12	Soluble	Solid	DI Leach	
880-18812-13	BF-13	Soluble	Solid	DI Leach	
880-18812-14	BF-14	Soluble	Solid	DI Leach	
880-18812-15	BF-15	Soluble	Solid	DI Leach	
880-18812-16	BF-16	Soluble	Solid	DI Leach	
880-18812-17	BF-17	Soluble	Solid	DI Leach	
880-18812-18	BF-18	Soluble	Solid	DI Leach	
880-18812-19	BF-19	Soluble	Solid	DI Leach	
880-18812-20	BF-20	Soluble	Solid	DI Leach	
MB 880-33841/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33841/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33841/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18812-1 MS	BF-1	Soluble	Solid	DI Leach	
880-18812-1 MSD	BF-1	Soluble	Solid	DI Leach	
880-18812-11 MS	BF-11	Soluble	Solid	DI Leach	
880-18812-11 MSD	BF-11	Soluble	Solid	DI Leach	

Analysis Batch: 34084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-1	BF-1	Soluble	Solid	300.0	33841
880-18812-2	BF-2	Soluble	Solid	300.0	33841
880-18812-3	BF-3	Soluble	Solid	300.0	33841
880-18812-4	BF-4	Soluble	Solid	300.0	33841
880-18812-5	BF-5	Soluble	Solid	300.0	33841
880-18812-6	BF-6	Soluble	Solid	300.0	33841
880-18812-7	BF-7	Soluble	Solid	300.0	33841
880-18812-8	BF-8	Soluble	Solid	300.0	33841
880-18812-9	BF-9	Soluble	Solid	300.0	33841
880-18812-10	BF-10	Soluble	Solid	300.0	33841

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

HPLC/IC (Continued)

Analysis Batch: 34084 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18812-11	BF-11	Soluble	Solid	300.0	33841
880-18812-12	BF-12	Soluble	Solid	300.0	33841
880-18812-13	BF-13	Soluble	Solid	300.0	33841
880-18812-14	BF-14	Soluble	Solid	300.0	33841
880-18812-15	BF-15	Soluble	Solid	300.0	33841
880-18812-16	BF-16	Soluble	Solid	300.0	33841
880-18812-17	BF-17	Soluble	Solid	300.0	33841
880-18812-18	BF-18	Soluble	Solid	300.0	33841
880-18812-19	BF-19	Soluble	Solid	300.0	33841
880-18812-20	BF-20	Soluble	Solid	300.0	33841
MB 880-33841/1-A	Method Blank	Soluble	Solid	300.0	33841
LCS 880-33841/2-A	Lab Control Sample	Soluble	Solid	300.0	33841
LCSD 880-33841/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33841
880-18812-1 MS	BF-1	Soluble	Solid	300.0	33841
880-18812-1 MSD	BF-1	Soluble	Solid	300.0	33841
880-18812-11 MS	BF-11	Soluble	Solid	300.0	33841
880-18812-11 MSD	BF-11	Soluble	Solid	300.0	33841

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-1
Date Collected: 09/02/22 09:00
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 05:13	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 11:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 00:03	CH	EET MID

Client Sample ID: BF-2
Date Collected: 09/02/22 09:05
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 05:36	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 12:27	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 00:18	CH	EET MID

Client Sample ID: BF-3
Date Collected: 09/02/22 09:08
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 05:59	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 12:49	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 00:22	CH	EET MID

Client Sample ID: BF-4
Date Collected: 09/02/22 09:10
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 06:22	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-4
Date Collected: 09/02/22 09:10
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-4
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			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 13:10	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 00:27	CH	EET MID

Client Sample ID: BF-5
Date Collected: 09/02/22 09:15
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 06:45	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 13:31	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 00:32	CH	EET MID

Client Sample ID: BF-6
Date Collected: 09/02/22 09:18
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 07:08	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 13:53	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 00:47	CH	EET MID

Client Sample ID: BF-7
Date Collected: 09/02/22 09:21
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 07:31	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 14:14	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-7
Date Collected: 09/02/22 09:21
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 00:51	CH	EET MID

Client Sample ID: BF-8
Date Collected: 09/02/22 09:28
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 07:53	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 14:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 00:56	CH	EET MID

Client Sample ID: BF-9
Date Collected: 09/02/22 09:31
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 08:16	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 14:57	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 01:01	CH	EET MID

Client Sample ID: BF-10
Date Collected: 09/02/22 09:35
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 08:39	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 15:19	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 01:06	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-11
Date Collected: 09/02/22 09:38
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 09:02	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 16:02	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 01:11	CH	EET MID

Client Sample ID: BF-12
Date Collected: 09/02/22 09:40
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68388	09/09/22 13:20	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 16:24	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 01:25	CH	EET MID

Client Sample ID: BF-13
Date Collected: 09/02/22 09:41
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68388	09/09/22 13:44	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 16:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 01:30	CH	EET MID

Client Sample ID: BF-14
Date Collected: 09/02/22 09:45
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68388	09/09/22 14:07	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-14
Date Collected: 09/02/22 09:45
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 17:07	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 01:45	CH	EET MID

Client Sample ID: BF-15
Date Collected: 09/02/22 09:48
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 10:33	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 17:28	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 01:50	CH	EET MID

Client Sample ID: BF-16
Date Collected: 09/02/22 09:50
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 10:56	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 17:50	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 01:55	CH	EET MID

Client Sample ID: BF-17
Date Collected: 09/02/22 09:52
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 11:19	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 18:11	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Client Sample ID: BF-17
Date Collected: 09/02/22 09:52
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 01:59	CH	EET MID

Client Sample ID: BF-18
Date Collected: 09/02/22 09:55
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68388	09/09/22 14:30	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 18:33	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 02:04	CH	EET MID

Client Sample ID: BF-19
Date Collected: 09/02/22 10:07
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	68338	09/08/22 16:31	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68352	09/09/22 12:04	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68527	09/09/22 17:59	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 18:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 02:09	CH	EET MID

Client Sample ID: BF-20
Date Collected: 09/02/22 10:09
Date Received: 09/06/22 08:33

Lab Sample ID: 880-18812-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	68481	09/09/22 13:54	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	68388	09/09/22 16:04	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			68659	09/12/22 11:49	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			34006	09/08/22 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33858	09/06/22 14:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33875	09/07/22 19:16	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33841	09/06/22 12:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	34084	09/10/22 02:14	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-18812-1
Project/Site: Limestone 1H SDG: 21-0100-24

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	T104704400-22-24	06-30-23

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

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-47	06-30-23

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
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET HOU
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-18812-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18812-1	BF-1	Solid	09/02/22 09:00	09/06/22 08:33
880-18812-2	BF-2	Solid	09/02/22 09:05	09/06/22 08:33
880-18812-3	BF-3	Solid	09/02/22 09:08	09/06/22 08:33
880-18812-4	BF-4	Solid	09/02/22 09:10	09/06/22 08:33
880-18812-5	BF-5	Solid	09/02/22 09:15	09/06/22 08:33
880-18812-6	BF-6	Solid	09/02/22 09:18	09/06/22 08:33
880-18812-7	BF-7	Solid	09/02/22 09:21	09/06/22 08:33
880-18812-8	BF-8	Solid	09/02/22 09:28	09/06/22 08:33
880-18812-9	BF-9	Solid	09/02/22 09:31	09/06/22 08:33
880-18812-10	BF-10	Solid	09/02/22 09:35	09/06/22 08:33
880-18812-11	BF-11	Solid	09/02/22 09:38	09/06/22 08:33
880-18812-12	BF-12	Solid	09/02/22 09:40	09/06/22 08:33
880-18812-13	BF-13	Solid	09/02/22 09:41	09/06/22 08:33
880-18812-14	BF-14	Solid	09/02/22 09:45	09/06/22 08:33
880-18812-15	BF-15	Solid	09/02/22 09:48	09/06/22 08:33
880-18812-16	BF-16	Solid	09/02/22 09:50	09/06/22 08:33
880-18812-17	BF-17	Solid	09/02/22 09:52	09/06/22 08:33
880-18812-18	BF-18	Solid	09/02/22 09:55	09/06/22 08:33
880-18812-19	BF-19	Solid	09/02/22 10:07	09/06/22 08:33
880-18812-20	BF-20	Solid	09/02/22 10:09	09/06/22 08:33

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18812 No. 2711

CHAIN-OF-CUSTODY

9/12/2022

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 9/21/2022 PAGE 1 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Limestone 1H

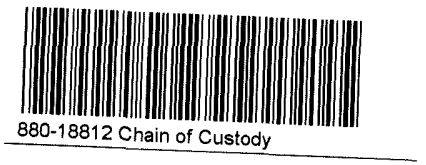
LAI PROJECT # 21-0100-24 COLLECTOR: PM

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MST / MDT

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX 8021 ☐ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ANIONS ☐ ALKALINITY ☐	FIELD NOTES
BF-1		9/12/22	0900	S	1				X		X		X	X	X													X		
BF-2			0905																											
BF-3			0908																											
BF-4			0910																											
BF-5			0915																											
BF-6			0918																											
BF-7			0921																											
BF-8			0928																											
BF-9			0931																											
BF-10			0935																											
BF-11			0938																											
BF-12			0940																											
BF-13			0944																											
BF-14			0948																											
BF-15			0948																											
TOTAL																														



RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	9/6/22 0833	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 3.5 THERM# IR9 .20
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Page 43 of 46

Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

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18812 No. 2712

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 9/2/2022 PAGE 2 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT #: 21-0100-24 COLLECTOR: PM

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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

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

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	TRPH	GASOLINE	DIESEL	OIL	VOC	SVOC	8081	8082	TCLP-M	TCLP-P	TOTAL	LEAD	RCI	TDS	pH	EXPLOSIVES	CHLORIDES	FIELD NOTES
BF-16		9/2	0950	S					X		X		X	X	X												X		
BF-17		"	0952	"					"		"		"	"	"												"		
BF-18		"	0955	"					"		"		"	"	"												"		
BF-19		"	1007	"					"		"		"	"	"												"		
BF-20		"	1009	"					"		"		"	"	"												"		
TOTAL																													

Loc: 880
18812

RELINQUISHED BY (Signature) DATE/TIME 09/6/22 0837 RECEIVED BY (Signature)

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 3.5 THERM# IR8-20
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

9/12/2022

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Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-18812-1
SDG Number: 21-0100-24

Login Number: 18812
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	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-18812-1
SDG Number: 21-0100-24

Login Number: 18812
List Number: 2
Creator: Bolch, Taylor

List Source: Eurofins Houston
List Creation: 09/08/22 01:33 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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?	N/A	
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").	True	

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ANALYTICAL REPORT

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

Laboratory Job ID: 880-19067-1
Laboratory Sample Delivery Group: 21-0100-24
Client Project/Site: Limestone 1H

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

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
9/26/2022 4:20:40 PM

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
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.

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-19067-1
Project/Site: Limestone 1H SDG: 21-0100-24

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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.
¤	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)

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Glossary (Continued)

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Job ID: 880-19067-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-19067-1

Receipt
The samples were received on 9/12/2022 9:45 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 0.5º C.

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34690 and analytical batch 880-34832 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: Surrogate recovery for the following samples were outside control limits: C-87 2' (880-19067-51) and C-88 2' (880-19067-52). Evidence of matrix interferences is not obvious.

Method 8021B: The LCS was biased high for o-xylene. Since the method requires either an acceptable LCS or LCSD, the data was qualified and reported.
(LCS 880-34854/1-A) and (LCSD 880-34678/2-A)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34678 and analytical batch 880-34891 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: Surrogate recovery for the following samples were outside control limits: C-84 2' (880-19067-48), (LCS 880-34854/1-A), (LCSD 880-34678/2-A), (890-2892-A-1-G MS) and (890-2892-A-1-H MSD). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35058 and analytical batch 880-35059 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34852 and analytical batch 880-35059 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: CCV was biased low for ethylbenzene, however another CCV was acceptable within 12 hours of the previous window so it was determined the instrument was still in calibration and the data was qualified and reported.
(CCV 880-35059/33)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34941 and analytical batch 880-35013 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: Surrogate recovery for the following samples were outside control limits: (890-2998-A-1-E) and (890-2998-A-1-D MSD). 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: (LCS 880-35157/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-35151/2). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34695 and analytical batch 880-35129 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 880-35129 recovered under the lower control limit for

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-19067-1
Project/Site: Limestone 1H SDG: 21-0100-24

Job ID: 880-19067-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Ethylbenzene and m,p-Xylenes. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-34694 and analytical batch 880-35150 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-110 4.1 (880-19067-18), C-111 4.1 (880-19067-19) and C-112 4.1 (880-19067-20). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-113 4.1 (880-19067-21) and C-114 4.1 (880-19067-22). 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-128 4.1 (880-19067-36). 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 surrogate recovery for the blank associated with preparation batch 880-34343 and analytical batch 880-34332 was outside the upper control limits.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: C-95 4.1 (880-19067-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: C-97 4.1 (880-19067-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: C-99 4.1 (880-19067-7) and C-100 4.1 (880-19067-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: C-104 4.1 (880-19067-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: C-109 4.1 (880-19067-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: C-112 4.1 (880-19067-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-34344/2-A) and (LCSD 880-34344/3-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 laboratory control sample (LCS) associated with preparation batch 880-34289 and 880-34289 and analytical batch 880-34571 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34291 and 880-34291 and analytical batch 880-34574 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.

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Job ID: 880-19067-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-93 4.1

Date Collected: 09/09/22 12:00
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 17:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 17:15	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		09/16/22 16:49	09/22/22 17:15	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/16/22 16:49	09/22/22 17:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 17:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/16/22 16:49	09/22/22 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*09/16/22 16:49*	*09/22/22 17:15*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/16/22 16:49*	*09/22/22 17:15*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 10:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 10:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*09/13/22 08:26*	*09/13/22 10:46*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*09/13/22 08:26*	*09/13/22 10:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**127**	*-	4.97		mg/Kg			09/16/22 08:23	1

Client Sample ID: C-94 4.1

Date Collected: 09/09/22 12:03
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 17:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 17:36	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		09/16/22 16:49	09/22/22 17:36	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/16/22 16:49	09/22/22 17:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 17:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/16/22 16:49	09/22/22 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/16/22 16:49*	*09/22/22 17:36*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/16/22 16:49*	*09/22/22 17:36*	*1*

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-94 4.1

Date Collected: 09/09/22 12:03
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-2

Matrix: Solid

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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 11:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 11:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*09/13/22 08:26*	*09/13/22 11:51*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*09/13/22 08:26*	*09/13/22 11:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.0**	*-	5.00		mg/Kg			09/16/22 08:28	1

Client Sample ID: C-95 4.1

Date Collected: 09/09/22 12:06
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 17:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 17:56	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		09/16/22 16:49	09/22/22 17:56	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 17:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 17:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/16/22 16:49*	*09/22/22 17:56*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/16/22 16:49*	*09/22/22 17:56*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 12:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 12:12	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-95 4.1

Date Collected: 09/09/22 12:06
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*141*	*S1+*	*70 - 130*	*09/13/22 08:26*	*09/13/22 12:12*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*09/13/22 08:26*	*09/13/22 12:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**176**	*-	5.03		mg/Kg			09/15/22 21:07	1

Client Sample ID: C-96 4.1

Date Collected: 09/09/22 12:09
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 18:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 18:16	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		09/16/22 16:49	09/22/22 18:16	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 18:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 18:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/16/22 16:49*	*09/22/22 18:16*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*09/16/22 16:49*	*09/22/22 18:16*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 12:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 12:34	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*126*		*70 - 130*	*09/13/22 08:26*	*09/13/22 12:34*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*09/13/22 08:26*	*09/13/22 12:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**147**	*-	5.04		mg/Kg			09/16/22 08:33	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-97 4.1

Date Collected: 09/09/22 12:12
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:49	09/22/22 18:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:49	09/22/22 18:37	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		09/16/22 16:49	09/22/22 18:37	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/16/22 16:49	09/22/22 18:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:49	09/22/22 18:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/16/22 16:49	09/22/22 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*09/16/22 16:49*	*09/22/22 18:37*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/16/22 16:49*	*09/22/22 18:37*	*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			09/20/22 09:49	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			09/14/22 08:58	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	<49.8	U	49.8		mg/Kg		09/13/22 08:26	09/13/22 12:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/22 08:26	09/13/22 12:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/22 08:26	09/13/22 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*	*09/13/22 08:26*	*09/13/22 12:56*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*09/13/22 08:26*	*09/13/22 12:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**928**	*-	4.96		mg/Kg			09/15/22 21:13	1

Client Sample ID: C-98 4.1

Date Collected: 09/09/22 12:15
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 18:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 18:57	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		09/16/22 16:49	09/22/22 18:57	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/16/22 16:49	09/22/22 18:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 18:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/16/22 16:49	09/22/22 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/16/22 16:49*	*09/22/22 18:57*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/16/22 16:49*	*09/22/22 18:57*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-98 4.1

Date Collected: 09/09/22 12:15
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-6

Matrix: Solid

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			09/20/22 09:49	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			09/14/22 08:58	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	<49.8	U	49.8		mg/Kg		09/13/22 08:26	09/13/22 13:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/22 08:26	09/13/22 13:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/22 08:26	09/13/22 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*09/13/22 08:26*	*09/13/22 13:17*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/13/22 08:26*	*09/13/22 13:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1060**	*-	5.03		mg/Kg			09/15/22 21:18	1

Client Sample ID: C-99 4.1

Date Collected: 09/09/22 12:18
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-7

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 19:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 19:18	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		09/16/22 16:49	09/22/22 19:18	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 19:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 19:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/16/22 16:49*	*09/22/22 19:18*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*09/16/22 16:49*	*09/22/22 19:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 13:39	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-99 4.1

Date Collected: 09/09/22 12:18
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*135*	*S1+*	*70 - 130*	*09/13/22 08:26*	*09/13/22 13:39*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*09/13/22 08:26*	*09/13/22 13:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		25.0		mg/Kg			09/16/22 00:47	5

Client Sample ID: C-100 4.1

Date Collected: 09/09/22 12:21
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-8

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 19:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 19:38	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		09/16/22 16:49	09/22/22 19:38	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 19:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 19:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*09/16/22 16:49*	*09/22/22 19:38*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/16/22 16:49*	*09/22/22 19:38*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 14:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 14:00	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*131*	*S1+*	*70 - 130*	*09/13/22 08:26*	*09/13/22 14:00*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*09/13/22 08:26*	*09/13/22 14:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**928**		5.02		mg/Kg			09/16/22 01:02	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-101 4.1

Date Collected: 09/09/22 12:25
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-9

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 19:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 19:59	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		09/16/22 16:49	09/22/22 19:59	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/16/22 16:49	09/22/22 19:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 19:59	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/16/22 16:49	09/22/22 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/16/22 16:49*	*09/22/22 19:59*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/16/22 16:49*	*09/22/22 19:59*	*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			09/20/22 09:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**59.1**		50.0		mg/Kg			09/14/22 08:58	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		09/13/22 08:26	09/13/22 14:22	1
Diesel Range Organics (Over C10-C28)	**59.1**		50.0		mg/Kg		09/13/22 08:26	09/13/22 14:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*09/13/22 08:26*	*09/13/22 14:22*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*09/13/22 08:26*	*09/13/22 14:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**387**		5.04		mg/Kg			09/16/22 01:06	1

Client Sample ID: C-102 4.1

Date Collected: 09/09/22 12:30
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 20:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 20:19	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		09/16/22 16:49	09/22/22 20:19	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/16/22 16:49	09/22/22 20:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 20:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/16/22 16:49	09/22/22 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*09/16/22 16:49*	*09/22/22 20:19*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/16/22 16:49*	*09/22/22 20:19*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-102 4.1

Date Collected: 09/09/22 12:30
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-10

Matrix: Solid

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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 14:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 14:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*09/13/22 08:26*	*09/13/22 14:43*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/13/22 08:26*	*09/13/22 14:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**938**		5.03		mg/Kg			09/16/22 01:11	1

Client Sample ID: C-103 4.1

Date Collected: 09/09/22 12:33
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-11

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 22:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 22:09	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		09/16/22 16:49	09/22/22 22:09	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 22:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 22:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*09/16/22 16:49*	*09/22/22 22:09*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/16/22 16:49*	*09/22/22 22:09*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 15:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 15:27	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-103 4.1

Date Collected: 09/09/22 12:33
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*09/13/22 08:26*	*09/13/22 15:27*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*09/13/22 08:26*	*09/13/22 15:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**652**		5.00		mg/Kg			09/16/22 01:16	1

Client Sample ID: C-104 4.1

Date Collected: 09/09/22 12:36
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-12

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:49	09/22/22 22:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:49	09/22/22 22:30	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		09/16/22 16:49	09/22/22 22:30	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/16/22 16:49	09/22/22 22:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:49	09/22/22 22:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/16/22 16:49	09/22/22 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/16/22 16:49*	*09/22/22 22:30*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/16/22 16:49*	*09/22/22 22:30*	*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			09/20/22 09:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**88.3**		49.8		mg/Kg			09/14/22 08:58	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	<49.8	U	49.8		mg/Kg		09/13/22 08:26	09/13/22 15:48	1
Diesel Range Organics (Over C10-C28)	**88.3**		49.8		mg/Kg		09/13/22 08:26	09/13/22 15:48	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/22 08:26	09/13/22 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*135*	*S1+*	*70 - 130*	*09/13/22 08:26*	*09/13/22 15:48*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*09/13/22 08:26*	*09/13/22 15:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1030**		5.00		mg/Kg			09/16/22 01:31	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-105 4.1

Date Collected: 09/09/22 12:39
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 22:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 22:50	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		09/16/22 16:49	09/22/22 22:50	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 22:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 22:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/16/22 16:49*	*09/22/22 22:50*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/16/22 16:49*	*09/22/22 22:50*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 16:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 16:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/13/22 08:26*	*09/13/22 16:10*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*09/13/22 08:26*	*09/13/22 16:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**613**		4.96		mg/Kg			09/16/22 01:35	1

Client Sample ID: C-106 4.1

Date Collected: 09/09/22 12:40
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 23:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 23:11	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		09/16/22 16:49	09/22/22 23:11	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/16/22 16:49	09/22/22 23:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 23:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/16/22 16:49	09/22/22 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*09/16/22 16:49*	*09/22/22 23:11*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/16/22 16:49*	*09/22/22 23:11*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-106 4.1

Date Collected: 09/09/22 12:40
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-14

Matrix: Solid

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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 16:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 16:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*09/13/22 08:26*	*09/13/22 16:31*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*09/13/22 08:26*	*09/13/22 16:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.7**		4.98		mg/Kg			09/16/22 01:40	1

Client Sample ID: C-107 4.1

Date Collected: 09/09/22 12:45
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-15

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 23:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 23:31	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		09/16/22 16:49	09/22/22 23:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 23:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 23:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*09/16/22 16:49*	*09/22/22 23:31*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/16/22 16:49*	*09/22/22 23:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 16:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 16:53	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-107 4.1

Date Collected: 09/09/22 12:45
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-15

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*123*		*70 - 130*	*09/13/22 08:26*	*09/13/22 16:53*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*09/13/22 08:26*	*09/13/22 16:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.9**		5.04		mg/Kg			09/16/22 01:45	1

Client Sample ID: C-108 4.1

Date Collected: 09/09/22 12:48
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-16

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 23:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 23:52	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		09/16/22 16:49	09/22/22 23:52	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 23:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:49	09/22/22 23:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:49	09/22/22 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*09/16/22 16:49*	*09/22/22 23:52*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/16/22 16:49*	*09/22/22 23:52*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 17:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 17:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*09/13/22 08:26*	*09/13/22 17:14*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*09/13/22 08:26*	*09/13/22 17:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.7**		5.05		mg/Kg			09/16/22 08:48	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-109 4.1

Date Collected: 09/09/22 12:51
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-17

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/23/22 00:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/23/22 00:12	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		09/16/22 16:49	09/23/22 00:12	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/16/22 16:49	09/23/22 00:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/23/22 00:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/16/22 16:49	09/23/22 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*09/16/22 16:49*	*09/23/22 00:12*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/16/22 16:49*	*09/23/22 00:12*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 17:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 17:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*137*	*S1+*	*70 - 130*	*09/13/22 08:26*	*09/13/22 17:35*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*09/13/22 08:26*	*09/13/22 17:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**617**		5.00		mg/Kg			09/16/22 01:51	1

Client Sample ID: C-110 4.1

Date Collected: 09/09/22 12:55
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-18

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/22/22 10:27	09/22/22 19:27	1
Toluene	**0.00204**		0.00202		mg/Kg		09/22/22 10:27	09/22/22 19:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/22/22 10:27	09/22/22 19:27	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		09/22/22 10:27	09/22/22 19:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/22/22 10:27	09/22/22 19:27	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/22/22 10:27	09/22/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*57*	*S1-*	*70 - 130*	*09/22/22 10:27*	*09/22/22 19:27*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*09/22/22 10:27*	*09/22/22 19:27*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-110 4.1

Date Collected: 09/09/22 12:55
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-18
Matrix: Solid

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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 17:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 17:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*125*		*70 - 130*	*09/13/22 08:26*	*09/13/22 17:57*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*09/13/22 08:26*	*09/13/22 17:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1260**		24.9		mg/Kg			09/16/22 02:06	5

Client Sample ID: C-111 4.1

Date Collected: 09/09/22 12:59
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-19
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 10:27	09/22/22 20:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 10:27	09/22/22 20:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/22 10:27	09/22/22 20:51	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/22/22 10:27	09/22/22 20:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/22 10:27	09/22/22 20:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/22/22 10:27	09/22/22 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*09/22/22 10:27*	*09/22/22 20:51*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/22/22 10:27*	*09/22/22 20:51*	*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			09/20/22 09:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**64.5**		49.8		mg/Kg			09/14/22 08:58	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	<49.8	U	49.8		mg/Kg		09/13/22 08:26	09/13/22 18:18	1
Diesel Range Organics (Over C10-C28)	**64.5**		49.8		mg/Kg		09/13/22 08:26	09/13/22 18:18	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-111 4.1

Date Collected: 09/09/22 12:59
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-19

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/22 08:26	09/13/22 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*129*		*70 - 130*	*09/13/22 08:26*	*09/13/22 18:18*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/13/22 08:26*	*09/13/22 18:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**956**		4.99		mg/Kg			09/16/22 02:11	1

Client Sample ID: C-112 4.1

Date Collected: 09/09/22 13:02
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/22/22 10:27	09/22/22 21:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/22/22 10:27	09/22/22 21:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/22/22 10:27	09/22/22 21:11	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/22/22 10:27	09/22/22 21:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/22/22 10:27	09/22/22 21:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/22/22 10:27	09/22/22 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*09/22/22 10:27*	*09/22/22 21:11*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*09/22/22 10:27*	*09/22/22 21:11*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:26	09/13/22 18:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 18:40	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:26	09/13/22 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*138*	*S1+*	*70 - 130*	*09/13/22 08:26*	*09/13/22 18:40*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*09/13/22 08:26*	*09/13/22 18:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2010**		24.8		mg/Kg			09/16/22 02:25	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-113 4.1

Date Collected: 09/09/22 13:05
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-21

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F2 F1	0.00198		mg/Kg		09/16/22 16:52	09/22/22 22:38	1
Toluene	<0.00198	U F2 F1	0.00198		mg/Kg		09/16/22 16:52	09/22/22 22:38	1
Ethylbenzene	<0.00198	U F1	0.00198		mg/Kg		09/16/22 16:52	09/22/22 22:38	1
m,p-Xylenes	<0.00396	U F1	0.00396		mg/Kg		09/16/22 16:52	09/22/22 22:38	1
o-Xylene	<0.00198	U F1	0.00198		mg/Kg		09/16/22 16:52	09/22/22 22:38	1
Xylenes, Total	<0.00396	U F1	0.00396		mg/Kg		09/16/22 16:52	09/22/22 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/16/22 16:52*	*09/22/22 22:38*	*1*
1,4-Difluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*09/16/22 16:52*	*09/22/22 22:38*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 10:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 10:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*09/13/22 08:27*	*09/13/22 10:46*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*09/13/22 08:27*	*09/13/22 10:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1010**		4.96		mg/Kg			09/16/22 02:30	1

Client Sample ID: C-114 4.1

Date Collected: 09/09/22 13:08
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-22

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/16/22 16:52	09/22/22 22:59	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/16/22 16:52	09/22/22 22:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/16/22 16:52	09/22/22 22:59	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		09/16/22 16:52	09/22/22 22:59	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/16/22 16:52	09/22/22 22:59	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/16/22 16:52	09/22/22 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/16/22 16:52*	*09/22/22 22:59*	*1*
1,4-Difluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*09/16/22 16:52*	*09/22/22 22:59*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-114 4.1

Date Collected: 09/09/22 13:08
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-22

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 11:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 11:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*09/13/22 08:27*	*09/13/22 11:51*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*09/13/22 08:27*	*09/13/22 11:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		4.96		mg/Kg			09/16/22 02:35	1

Client Sample ID: C-115 4.1

Date Collected: 09/09/22 13:11
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-23

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/22/22 23:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/22/22 23:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/22/22 23:19	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/16/22 16:52	09/22/22 23:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/22/22 23:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/16/22 16:52	09/22/22 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/16/22 16:52*	*09/22/22 23:19*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*09/16/22 16:52*	*09/22/22 23:19*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 12:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 12:12	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-115 4.1

Date Collected: 09/09/22 13:11
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-23

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*09/13/22 08:27*	*09/13/22 12:12*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*09/13/22 08:27*	*09/13/22 12:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1370**		25.2		mg/Kg			09/16/22 08:53	5

Client Sample ID: C-116 4.1

Date Collected: 09/09/22 13:14
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-24

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/22/22 23:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/22/22 23:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/22/22 23:40	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:52	09/22/22 23:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/22/22 23:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:52	09/22/22 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*09/16/22 16:52*	*09/22/22 23:40*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*09/16/22 16:52*	*09/22/22 23:40*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 12:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 12:34	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*09/13/22 08:27*	*09/13/22 12:34*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*09/13/22 08:27*	*09/13/22 12:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1870**		25.3		mg/Kg			09/16/22 02:41	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-117 4.1

Date Collected: 09/09/22 13:17
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-25

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 00:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 00:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 00:00	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/16/22 16:52	09/23/22 00:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 00:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/16/22 16:52	09/23/22 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/16/22 16:52*	*09/23/22 00:00*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*09/16/22 16:52*	*09/23/22 00:00*	*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			09/20/22 09:49	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			09/14/22 08:58	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	<49.8	U	49.8		mg/Kg		09/13/22 08:27	09/13/22 12:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/22 08:27	09/13/22 12:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/22 08:27	09/13/22 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*09/13/22 08:27*	*09/13/22 12:56*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*09/13/22 08:27*	*09/13/22 12:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		4.96		mg/Kg			09/16/22 02:46	1

Client Sample ID: C-118 4.1

Date Collected: 09/09/22 13:20
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-26

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 00:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 00:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 00:21	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/16/22 16:52	09/23/22 00:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 00:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/16/22 16:52	09/23/22 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/16/22 16:52*	*09/23/22 00:21*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*09/16/22 16:52*	*09/23/22 00:21*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-118 4.1

Date Collected: 09/09/22 13:20
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-26

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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	<49.8	U	49.8		mg/Kg		09/13/22 08:27	09/13/22 13:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/22 08:27	09/13/22 13:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/22 08:27	09/13/22 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*09/13/22 08:27*	*09/13/22 13:17*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*09/13/22 08:27*	*09/13/22 13:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1330**		25.0		mg/Kg			09/16/22 02:51	5

Client Sample ID: C-119 4.1

Date Collected: 09/09/22 13:22
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-27

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 00:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 00:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 00:41	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/16/22 16:52	09/23/22 00:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 00:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/16/22 16:52	09/23/22 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/16/22 16:52*	*09/23/22 00:41*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*09/16/22 16:52*	*09/23/22 00:41*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 13:39	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-119 4.1

Date Collected: 09/09/22 13:22
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-27

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*09/13/22 08:27*	*09/13/22 13:39*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*09/13/22 08:27*	*09/13/22 13:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**982**	**F1**	4.99		mg/Kg			09/15/22 13:46	1

Client Sample ID: C-120 4.1

Date Collected: 09/09/22 13:24
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-28

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 01:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 01:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 01:02	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/16/22 16:52	09/23/22 01:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 01:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/16/22 16:52	09/23/22 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*09/16/22 16:52*	*09/23/22 01:02*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*09/16/22 16:52*	*09/23/22 01:02*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 14:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 14:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*09/13/22 08:27*	*09/13/22 14:00*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*09/13/22 08:27*	*09/13/22 14:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1380**		25.1		mg/Kg			09/15/22 14:08	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-121 4.1

Date Collected: 09/09/22 13:25
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-29

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/23/22 01:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/23/22 01:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/23/22 01:22	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:52	09/23/22 01:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/23/22 01:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:52	09/23/22 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*09/16/22 16:52*	*09/23/22 01:22*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*09/16/22 16:52*	*09/23/22 01:22*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 14:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 14:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*09/13/22 08:27*	*09/13/22 14:22*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*09/13/22 08:27*	*09/13/22 14:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**117**		5.03		mg/Kg			09/15/22 14:15	1

Client Sample ID: C-122 4.1

Date Collected: 09/09/22 13:28
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-30

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:52	09/23/22 01:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:52	09/23/22 01:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:52	09/23/22 01:43	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/16/22 16:52	09/23/22 01:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:52	09/23/22 01:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/16/22 16:52	09/23/22 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/16/22 16:52*	*09/23/22 01:43*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*09/16/22 16:52*	*09/23/22 01:43*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-122 4.1

Date Collected: 09/09/22 13:28
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-30

Matrix: Solid

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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 14:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 14:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*09/13/22 08:27*	*09/13/22 14:43*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*09/13/22 08:27*	*09/13/22 14:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1850**		25.0		mg/Kg			09/15/22 14:22	5

Client Sample ID: C-123 4.1

Date Collected: 09/09/22 13:30
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-31

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 03:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 03:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 03:05	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/16/22 16:52	09/23/22 03:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 03:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/16/22 16:52	09/23/22 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/16/22 16:52*	*09/23/22 03:05*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*09/16/22 16:52*	*09/23/22 03:05*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 15:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 15:27	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-123 4.1

Date Collected: 09/09/22 13:30
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-31

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*09/13/22 08:27*	*09/13/22 15:27*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*09/13/22 08:27*	*09/13/22 15:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**505**		4.99		mg/Kg			09/15/22 14:29	1

Client Sample ID: C-124 4.1

Date Collected: 09/09/22 13:31
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-32

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 03:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 03:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 03:26	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/16/22 16:52	09/23/22 03:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 03:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/16/22 16:52	09/23/22 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*09/16/22 16:52*	*09/23/22 03:26*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/16/22 16:52*	*09/23/22 03:26*	*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			09/20/22 09:49	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			09/14/22 08:58	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	<49.8	U	49.8		mg/Kg		09/13/22 08:27	09/13/22 15:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/22 08:27	09/13/22 15:48	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/22 08:27	09/13/22 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*09/13/22 08:27*	*09/13/22 15:48*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*09/13/22 08:27*	*09/13/22 15:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**526**		5.00		mg/Kg			09/15/22 14:52	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-125 4.1

Date Collected: 09/09/22 13:35
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-33

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/16/22 16:52	09/23/22 03:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/16/22 16:52	09/23/22 03:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/16/22 16:52	09/23/22 03:46	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		09/16/22 16:52	09/23/22 03:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/16/22 16:52	09/23/22 03:46	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/16/22 16:52	09/23/22 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/16/22 16:52*	*09/23/22 03:46*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*09/16/22 16:52*	*09/23/22 03:46*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 16:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 16:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*09/13/22 08:27*	*09/13/22 16:10*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*09/13/22 08:27*	*09/13/22 16:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**514**		4.96		mg/Kg			09/15/22 14:59	1

Client Sample ID: C-126 4.1

Date Collected: 09/09/22 13:38
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-34

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 04:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 04:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 04:07	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/16/22 16:52	09/23/22 04:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 04:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/16/22 16:52	09/23/22 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*09/16/22 16:52*	*09/23/22 04:07*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*09/16/22 16:52*	*09/23/22 04:07*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-126 4.1

Date Collected: 09/09/22 13:38
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-34
Matrix: Solid

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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 16:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 16:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*09/13/22 08:27*	*09/13/22 16:31*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*09/13/22 08:27*	*09/13/22 16:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1180**		24.9		mg/Kg			09/15/22 15:07	5

Client Sample ID: C-127 4.1

Date Collected: 09/09/22 13:40
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-35
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:52	09/23/22 04:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:52	09/23/22 04:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:52	09/23/22 04:27	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/16/22 16:52	09/23/22 04:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:52	09/23/22 04:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/16/22 16:52	09/23/22 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*09/16/22 16:52*	*09/23/22 04:27*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/16/22 16:52*	*09/23/22 04:27*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 16:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 16:53	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-127 4.1

Date Collected: 09/09/22 13:40
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-35

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*09/13/22 08:27*	*09/13/22 16:53*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*09/13/22 08:27*	*09/13/22 16:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**282**		5.04		mg/Kg			09/15/22 15:14	1

Client Sample ID: C-128 4.1

Date Collected: 09/09/22 13:42
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-36

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 04:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 04:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 04:48	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/16/22 16:52	09/23/22 04:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/23/22 04:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/16/22 16:52	09/23/22 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/16/22 16:52*	*09/23/22 04:48*	*1*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*09/16/22 16:52*	*09/23/22 04:48*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 17:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 17:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*09/13/22 08:27*	*09/13/22 17:14*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*09/13/22 08:27*	*09/13/22 17:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**443**		5.03		mg/Kg			09/15/22 15:22	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-129 4.1

Date Collected: 09/09/22 13:44
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-37

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:52	09/23/22 05:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:52	09/23/22 05:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:52	09/23/22 05:08	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/16/22 16:52	09/23/22 05:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:52	09/23/22 05:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/16/22 16:52	09/23/22 05:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*09/16/22 16:52*	*09/23/22 05:08*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*09/16/22 16:52*	*09/23/22 05:08*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 17:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 17:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*09/13/22 08:27*	*09/13/22 17:35*	*1*
o-Terphenyl (Surr)	*78*		*70 - 130*	*09/13/22 08:27*	*09/13/22 17:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**690**	**F1**	5.02		mg/Kg			09/15/22 15:29	1

Client Sample ID: C-130 4.1

Date Collected: 09/09/22 13:47
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-38

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/16/22 16:52	09/23/22 05:29	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/16/22 16:52	09/23/22 05:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/16/22 16:52	09/23/22 05:29	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		09/16/22 16:52	09/23/22 05:29	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/16/22 16:52	09/23/22 05:29	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/16/22 16:52	09/23/22 05:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/16/22 16:52*	*09/23/22 05:29*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*09/16/22 16:52*	*09/23/22 05:29*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-130 4.1

Date Collected: 09/09/22 13:47
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-38

Matrix: Solid

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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 17:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 17:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*09/13/22 08:27*	*09/13/22 17:57*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*09/13/22 08:27*	*09/13/22 17:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1580**		24.9		mg/Kg			09/15/22 15:51	5

Client Sample ID: C-131 4.1

Date Collected: 09/09/22 13:48
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-39

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/23/22 05:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/23/22 05:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/23/22 05:49	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:52	09/23/22 05:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/23/22 05:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:52	09/23/22 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/16/22 16:52*	*09/23/22 05:49*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*09/16/22 16:52*	*09/23/22 05:49*	*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			09/20/22 09:49	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			09/14/22 08:58	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	<49.8	U	49.8		mg/Kg		09/13/22 08:27	09/13/22 18:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/22 08:27	09/13/22 18:18	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-131 4.1

Date Collected: 09/09/22 13:48
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-39

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/22 08:27	09/13/22 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*09/13/22 08:27*	*09/13/22 18:18*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*09/13/22 08:27*	*09/13/22 18:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1710**		25.0		mg/Kg			09/15/22 15:59	5

Client Sample ID: C-132 4.1

Date Collected: 09/09/22 13:51
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-40

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/23/22 06:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/23/22 06:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/23/22 06:10	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:52	09/23/22 06:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:52	09/23/22 06:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:52	09/23/22 06:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*09/16/22 16:52*	*09/23/22 06:10*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*09/16/22 16:52*	*09/23/22 06:10*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:27	09/13/22 18:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 18:40	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:27	09/13/22 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*09/13/22 08:27*	*09/13/22 18:40*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*09/13/22 08:27*	*09/13/22 18:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**386**		5.05		mg/Kg			09/15/22 16:21	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-133 4.1

Date Collected: 09/09/22 13:53
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-41

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202		mg/Kg		09/19/22 14:40	09/22/22 05:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/19/22 14:40	09/22/22 05:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/19/22 14:40	09/22/22 05:05	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		09/19/22 14:40	09/22/22 05:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/19/22 14:40	09/22/22 05:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/19/22 14:40	09/22/22 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/19/22 14:40*	*09/22/22 05:05*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/19/22 14:40*	*09/22/22 05:05*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:25	09/13/22 12:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 12:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*09/13/22 08:25*	*09/13/22 12:52*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*09/13/22 08:25*	*09/13/22 12:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2290**		24.9		mg/Kg			09/15/22 16:29	5

Client Sample ID: C-134 4.1

Date Collected: 09/09/22 13:55
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-42

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/21/22 11:58	09/21/22 22:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/21/22 11:58	09/21/22 22:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/21/22 11:58	09/21/22 22:44	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/21/22 11:58	09/21/22 22:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/21/22 11:58	09/21/22 22:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/21/22 11:58	09/21/22 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*09/21/22 11:58*	*09/21/22 22:44*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*09/21/22 11:58*	*09/21/22 22:44*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-134 4.1

Date Collected: 09/09/22 13:55
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-42

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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	<49.8	U	49.8		mg/Kg		09/13/22 08:25	09/13/22 13:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/22 08:25	09/13/22 13:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/22 08:25	09/13/22 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*09/13/22 08:25*	*09/13/22 13:13*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*09/13/22 08:25*	*09/13/22 13:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**142**		5.03		mg/Kg			09/15/22 16:36	1

Client Sample ID: C-135 4.1

Date Collected: 09/09/22 13:57
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-43

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 11:58	09/21/22 23:04	1
Toluene	**0.00223**		0.00200		mg/Kg		09/21/22 11:58	09/21/22 23:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 11:58	09/21/22 23:04	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/21/22 11:58	09/21/22 23:04	1
o-Xylene	**0.00228**		0.00200		mg/Kg		09/21/22 11:58	09/21/22 23:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/21/22 11:58	09/21/22 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*09/21/22 11:58*	*09/21/22 23:04*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*09/21/22 11:58*	*09/21/22 23:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00451**		0.00401		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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	<49.8	U	49.8		mg/Kg		09/13/22 08:25	09/13/22 13:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/22 08:25	09/13/22 13:35	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-135 4.1

Date Collected: 09/09/22 13:57
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-43

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/22 08:25	09/13/22 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*09/13/22 08:25*	*09/13/22 13:35*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*09/13/22 08:25*	*09/13/22 13:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.0**		4.99		mg/Kg			09/15/22 16:44	1

Client Sample ID: C-136 4.1

Date Collected: 09/09/22 13:58
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-44

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/21/22 11:58	09/21/22 23:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/21/22 11:58	09/21/22 23:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/21/22 11:58	09/21/22 23:25	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/21/22 11:58	09/21/22 23:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/21/22 11:58	09/21/22 23:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/21/22 11:58	09/21/22 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*09/21/22 11:58*	*09/21/22 23:25*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/21/22 11:58*	*09/21/22 23:25*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:25	09/13/22 13:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:25	09/13/22 13:56	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:25	09/13/22 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*09/13/22 08:25*	*09/13/22 13:56*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*09/13/22 08:25*	*09/13/22 13:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**743**		4.98		mg/Kg			09/15/22 16:51	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-137 4.1

Date Collected: 09/09/22 14:00
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-45

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/21/22 11:58	09/21/22 23:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/21/22 11:58	09/21/22 23:45	1
Ethylbenzene	**0.00231**		0.00202		mg/Kg		09/21/22 11:58	09/21/22 23:45	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		09/21/22 11:58	09/21/22 23:45	1
o-Xylene	**0.00289**		0.00202		mg/Kg		09/21/22 11:58	09/21/22 23:45	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/21/22 11:58	09/21/22 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*09/21/22 11:58*	*09/21/22 23:45*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*09/21/22 11:58*	*09/21/22 23:45*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00520**		0.00404		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:25	09/13/22 14:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 14:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*127*		*70 - 130*	*09/13/22 08:25*	*09/13/22 14:16*	*1*
o-Terphenyl (Surr)	*126*		*70 - 130*	*09/13/22 08:25*	*09/13/22 14:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		5.01		mg/Kg			09/15/22 16:59	1

Client Sample ID: C-82 2'

Date Collected: 09/07/22 17:00
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-46

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 13:28	09/21/22 03:50	1
Toluene	**0.00379**		0.00200		mg/Kg		09/16/22 13:28	09/21/22 03:50	1
Ethylbenzene	**0.00253**		0.00200		mg/Kg		09/16/22 13:28	09/21/22 03:50	1
m,p-Xylenes	**0.0186**		0.00399		mg/Kg		09/16/22 13:28	09/21/22 03:50	1
o-Xylene	**0.00597**	*+	0.00200		mg/Kg		09/16/22 13:28	09/21/22 03:50	1
Xylenes, Total	**0.0246**		0.00399		mg/Kg		09/16/22 13:28	09/21/22 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*09/16/22 13:28*	*09/21/22 03:50*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*09/16/22 13:28*	*09/21/22 03:50*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-82 2'

Date Collected: 09/07/22 17:00
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-46

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0309**		0.00399		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:25	09/13/22 14:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 14:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*09/13/22 08:25*	*09/13/22 14:37*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*09/13/22 08:25*	*09/13/22 14:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.9**		5.01		mg/Kg			09/15/22 17:59	1

Client Sample ID: C-83 2'

Date Collected: 09/07/22 17:03
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-47

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/16/22 13:28	09/21/22 04:10	1
Toluene	**0.00465**		0.00198		mg/Kg		09/16/22 13:28	09/21/22 04:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/16/22 13:28	09/21/22 04:10	1
m,p-Xylenes	**0.0120**		0.00396		mg/Kg		09/16/22 13:28	09/21/22 04:10	1
o-Xylene	**0.0117**	***+**	0.00198		mg/Kg		09/16/22 13:28	09/21/22 04:10	1
Xylenes, Total	**0.0237**		0.00396		mg/Kg		09/16/22 13:28	09/21/22 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/16/22 13:28*	*09/21/22 04:10*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/16/22 13:28*	*09/21/22 04:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0284**		0.00396		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:25	09/13/22 15:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 15:20	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-83 2'
Date Collected: 09/07/22 17:03
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-47
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*09/13/22 08:25*	*09/13/22 15:20*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*09/13/22 08:25*	*09/13/22 15:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.9**		5.02		mg/Kg			09/15/22 18:21	1

Client Sample ID: C-84 2'
Date Collected: 09/07/22 17:05
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-48
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/16/22 13:28	09/21/22 04:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/16/22 13:28	09/21/22 04:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/16/22 13:28	09/21/22 04:31	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		09/16/22 13:28	09/21/22 04:31	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		09/16/22 13:28	09/21/22 04:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/16/22 13:28	09/21/22 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/16/22 13:28*	*09/21/22 04:31*	*1*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*09/16/22 13:28*	*09/21/22 04:31*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:25	09/13/22 15:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 15:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*09/13/22 08:25*	*09/13/22 15:41*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/13/22 08:25*	*09/13/22 15:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63.3**		5.05		mg/Kg			09/15/22 18:29	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-85 2'

Date Collected: 09/07/22 17:09
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-49

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/16/22 13:28	09/21/22 04:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/16/22 13:28	09/21/22 04:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/16/22 13:28	09/21/22 04:51	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		09/16/22 13:28	09/21/22 04:51	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		09/16/22 13:28	09/21/22 04:51	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/16/22 13:28	09/21/22 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/16/22 13:28*	*09/21/22 04:51*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/16/22 13:28*	*09/21/22 04:51*	*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			09/20/22 09:49	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			09/14/22 08:58	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	<49.8	U	49.8		mg/Kg		09/13/22 08:25	09/13/22 16:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/22 08:25	09/13/22 16:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/22 08:25	09/13/22 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*09/13/22 08:25*	*09/13/22 16:02*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*09/13/22 08:25*	*09/13/22 16:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.3**		5.00		mg/Kg			09/15/22 18:36	1

Client Sample ID: C-86 2'

Date Collected: 09/07/22 17:11
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-50

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/16/22 13:28	09/21/22 05:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/16/22 13:28	09/21/22 05:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/16/22 13:28	09/21/22 05:12	1
m,p-Xylenes	**0.00550**		0.00402		mg/Kg		09/16/22 13:28	09/21/22 05:12	1
o-Xylene	**0.00324**	***+**	0.00201		mg/Kg		09/16/22 13:28	09/21/22 05:12	1
Xylenes, Total	**0.00874**		0.00402		mg/Kg		09/16/22 13:28	09/21/22 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*09/16/22 13:28*	*09/21/22 05:12*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/16/22 13:28*	*09/21/22 05:12*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-86 2'

Date Collected: 09/07/22 17:11
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-50

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00874**		0.00402		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:25	09/13/22 16:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 16:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*09/13/22 08:25*	*09/13/22 16:22*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*09/13/22 08:25*	*09/13/22 16:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**158**		4.99		mg/Kg			09/15/22 18:43	1

Client Sample ID: C-87 2'

Date Collected: 09/07/22 17:15
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-51

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00286**	**F2 F1**	0.00201		mg/Kg		09/16/22 16:06	09/20/22 05:29	1
Toluene	**0.00518**	**F2 F1**	0.00201		mg/Kg		09/16/22 16:06	09/20/22 05:29	1
Ethylbenzene	**0.00860**	**F2 F1**	0.00201		mg/Kg		09/16/22 16:06	09/20/22 05:29	1
m,p-Xylenes	**0.0175**	**F2 F1**	0.00402		mg/Kg		09/16/22 16:06	09/20/22 05:29	1
o-Xylene	**0.00724**	**F2 F1**	0.00201		mg/Kg		09/16/22 16:06	09/20/22 05:29	1
Xylenes, Total	**0.0247**	**F2 F1**	0.00402		mg/Kg		09/16/22 16:06	09/20/22 05:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*09/16/22 16:06*	*09/20/22 05:29*	*1*
1,4-Difluorobenzene (Surr)	*14*	*S1-*	*70 - 130*	*09/16/22 16:06*	*09/20/22 05:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0414**		0.00402		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:25	09/13/22 16:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:25	09/13/22 16:43	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-87 2'

Lab Sample ID: 880-19067-51
Matrix: Solid
Date Collected: 09/07/22 17:15
Date Received: 09/12/22 09:45

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:25	09/13/22 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*09/13/22 08:25*	*09/13/22 16:43*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*09/13/22 08:25*	*09/13/22 16:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**244**		5.00		mg/Kg			09/15/22 19:06	1

Client Sample ID: C-88 2'

Lab Sample ID: 880-19067-52
Matrix: Solid
Date Collected: 09/07/22 17:18
Date Received: 09/12/22 09:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0782**		0.00198		mg/Kg		09/16/22 16:06	09/20/22 05:49	1
Toluene	**0.0143**		0.00198		mg/Kg		09/16/22 16:06	09/20/22 05:49	1
Ethylbenzene	**0.0516**		0.00198		mg/Kg		09/16/22 16:06	09/20/22 05:49	1
m,p-Xylenes	**0.0457**		0.00396		mg/Kg		09/16/22 16:06	09/20/22 05:49	1
o-Xylene	**0.120**		0.00198		mg/Kg		09/16/22 16:06	09/20/22 05:49	1
Xylenes, Total	**0.166**		0.00396		mg/Kg		09/16/22 16:06	09/20/22 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*213*	*S1+*	*70 - 130*	*09/16/22 16:06*	*09/20/22 05:49*	*1*
1,4-Difluorobenzene (Surr)	*28*	*S1-*	*70 - 130*	*09/16/22 16:06*	*09/20/22 05:49*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.310**		0.00396		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:25	09/13/22 17:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 17:04	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*09/13/22 08:25*	*09/13/22 17:04*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/13/22 08:25*	*09/13/22 17:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**397**		4.96		mg/Kg			09/15/22 19:14	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-89 2'

Date Collected: 09/07/22 17:22
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-53

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:06	09/20/22 06:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:06	09/20/22 06:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:06	09/20/22 06:10	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:06	09/20/22 06:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:06	09/20/22 06:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:06	09/20/22 06:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/16/22 16:06*	*09/20/22 06:10*	*1*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*	*09/16/22 16:06*	*09/20/22 06:10*	*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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:25	09/13/22 17:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:25	09/13/22 17:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:25	09/13/22 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*09/13/22 08:25*	*09/13/22 17:25*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*09/13/22 08:25*	*09/13/22 17:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**342**		4.97		mg/Kg			09/15/22 19:21	1

Client Sample ID: C-90 2'

Date Collected: 09/07/22 17:25
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-54

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:06	09/20/22 06:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:06	09/20/22 06:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:06	09/20/22 06:30	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/16/22 16:06	09/20/22 06:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:06	09/20/22 06:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/16/22 16:06	09/20/22 06:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*09/16/22 16:06*	*09/20/22 06:30*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/16/22 16:06*	*09/20/22 06:30*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-90 2'

Date Collected: 09/07/22 17:25
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-54
Matrix: Solid

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			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:25	09/13/22 17:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:25	09/13/22 17:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:25	09/13/22 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*09/13/22 08:25*	*09/13/22 17:46*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*09/13/22 08:25*	*09/13/22 17:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**259**		5.04		mg/Kg			09/15/22 19:28	1

Client Sample ID: C-91 0-2'

Date Collected: 09/07/22 17:30
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-55
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:06	09/20/22 06:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:06	09/20/22 06:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:06	09/20/22 06:51	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/16/22 16:06	09/20/22 06:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/16/22 16:06	09/20/22 06:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/16/22 16:06	09/20/22 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/16/22 16:06*	*09/20/22 06:51*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*09/16/22 16:06*	*09/20/22 06:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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		09/13/22 08:25	09/13/22 18:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 18:07	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-91 0-2'

Lab Sample ID: 880-19067-55
Matrix: Solid
Date Collected: 09/07/22 17:30
Date Received: 09/12/22 09:45

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 08:25	09/13/22 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/13/22 08:25*	*09/13/22 18:07*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*09/13/22 08:25*	*09/13/22 18:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**641**		5.03		mg/Kg			09/15/22 19:36	1

Client Sample ID: C-92 0-2'

Lab Sample ID: 880-19067-56
Matrix: Solid
Date Collected: 09/07/22 17:32
Date Received: 09/12/22 09:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:06	09/20/22 07:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:06	09/20/22 07:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:06	09/20/22 07:11	1
m,p-Xylenes	**0.00414**		0.00402		mg/Kg		09/16/22 16:06	09/20/22 07:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/16/22 16:06	09/20/22 07:11	1
Xylenes, Total	**0.00414**		0.00402		mg/Kg		09/16/22 16:06	09/20/22 07:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/16/22 16:06*	*09/20/22 07:11*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*09/16/22 16:06*	*09/20/22 07:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00414**		0.00402		mg/Kg			09/20/22 09:49	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			09/14/22 08:58	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	<49.8	U	49.8		mg/Kg		09/13/22 08:25	09/13/22 18:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/22 08:25	09/13/22 18:27	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/22 08:25	09/13/22 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*09/13/22 08:25*	*09/13/22 18:27*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/13/22 08:25*	*09/13/22 18:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		5.00		mg/Kg			09/15/22 19:43	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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)
880-19067-1	C-93 4.1	97	108
880-19067-1 MS	C-93 4.1	96	106
880-19067-1 MSD	C-93 4.1	103	105
880-19067-2	C-94 4.1	108	105
880-19067-3	C-95 4.1	105	101
880-19067-4	C-96 4.1	103	114
880-19067-5	C-97 4.1	102	104
880-19067-6	C-98 4.1	113	103
880-19067-7	C-99 4.1	109	118
880-19067-8	C-100 4.1	98	107
880-19067-9	C-101 4.1	107	105
880-19067-10	C-102 4.1	114	104
880-19067-11	C-103 4.1	120	105
880-19067-12	C-104 4.1	110	104
880-19067-13	C-105 4.1	103	107
880-19067-14	C-106 4.1	102	108
880-19067-15	C-107 4.1	98	106
880-19067-16	C-108 4.1	97	107
880-19067-17	C-109 4.1	116	100
880-19067-18	C-110 4.1	57 S1-	78
880-19067-19	C-111 4.1	143 S1+	112
880-19067-20	C-112 4.1	136 S1+	109
880-19067-21	C-113 4.1	99	63 S1-
880-19067-21 MS	C-113 4.1	137 S1+	94
880-19067-21 MSD	C-113 4.1	130	93
880-19067-22	C-114 4.1	104	65 S1-
880-19067-23	C-115 4.1	110	81
880-19067-24	C-116 4.1	121	88
880-19067-25	C-117 4.1	108	73
880-19067-26	C-118 4.1	113	82
880-19067-27	C-119 4.1	109	74
880-19067-28	C-120 4.1	92	73
880-19067-29	C-121 4.1	114	81
880-19067-30	C-122 4.1	113	82
880-19067-31	C-123 4.1	113	82
880-19067-32	C-124 4.1	118	91
880-19067-33	C-125 4.1	112	88
880-19067-34	C-126 4.1	116	90
880-19067-35	C-127 4.1	116	91
880-19067-36	C-128 4.1	105	68 S1-
880-19067-37	C-129 4.1	118	86
880-19067-38	C-130 4.1	108	70
880-19067-39	C-131 4.1	112	77
880-19067-40	C-132 4.1	119	87
880-19067-41	C-133 4.1	99	103
880-19067-41 MS	C-133 4.1	106	96
880-19067-41 MSD	C-133 4.1	96	107
880-19067-42	C-134 4.1	96	114
880-19067-43	C-135 4.1	86	121

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-19067-1
Project/Site: Limestone 1H SDG: 21-0100-24

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)
880-19067-44	C-136 4.1	98	110
880-19067-45	C-137 4.1	94	121
880-19067-46	C-82 2'	128	81
880-19067-47	C-83 2'	90	100
880-19067-48	C-84 2'	100	68 S1-
880-19067-49	C-85 2'	89	94
880-19067-50	C-86 2'	122	117
880-19067-51	C-87 2'	120	14 S1-
880-19067-51 MS	C-87 2'	88	109
880-19067-51 MSD	C-87 2'	88	109
880-19067-52	C-88 2'	213 S1+	28 S1-
880-19067-53	C-89 2'	103	124
880-19067-54	C-90 2'	102	98
880-19067-55	C-91 0-2'	101	113
880-19067-56	C-92 0-2'	90	119
LCS 880-34678/1-A	Lab Control Sample	113	87
LCS 880-34690/1-A	Lab Control Sample	89	101
LCS 880-34694/1-A	Lab Control Sample	103	100
LCS 880-34695/1-A	Lab Control Sample	120	108
LCS 880-34852/1-A	Lab Control Sample	91	108
LCS 880-34854/1-A	Lab Control Sample	149 S1+	99
LCS 880-34941/1-A	Lab Control Sample	125	111
LCS 880-35058/1-A	Lab Control Sample	81	110
LCS 880-35157/1-A	Lab Control Sample	136 S1+	117
LCSD 880-34678/2-A	Lab Control Sample Dup	151 S1+	99
LCSD 880-34690/2-A	Lab Control Sample Dup	84	104
LCSD 880-34694/2-A	Lab Control Sample Dup	90	108
LCSD 880-34695/2-A	Lab Control Sample Dup	124	110
LCSD 880-34852/2-A	Lab Control Sample Dup	95	102
LCSD 880-34854/2-A	Lab Control Sample Dup	118	90
LCSD 880-34941/2-A	Lab Control Sample Dup	112	107
LCSD 880-35058/2-A	Lab Control Sample Dup	76	107
LCSD 880-35157/2-A	Lab Control Sample Dup	127	114
MB 880-34678/5-A	Method Blank	103	86
MB 880-34689/5-B	Method Blank	101	117
MB 880-34690/5-A	Method Blank	101	113
MB 880-34694/5-A	Method Blank	103	116
MB 880-34695/5-A	Method Blank	99	89
MB 880-34852/5-A	Method Blank	103	114
MB 880-34854/5-A	Method Blank	98	91
MB 880-34941/5-A	Method Blank	100	93
MB 880-34943/5-A	Method Blank	101	85
MB 880-35058/5-A	Method Blank	105	115
MB 880-35157/5-A	Method Blank	110	108

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-19067-1
Project/Site: Limestone 1H SDG: 21-0100-24

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)								
880-19067-1	C-93 4.1	105	96								
880-19067-1 MS	C-93 4.1	108	94								
880-19067-1 MSD	C-93 4.1	108	83								
880-19067-2	C-94 4.1	107	96								
880-19067-3	C-95 4.1	141 S1+	120								
880-19067-4	C-96 4.1	126	112								
880-19067-5	C-97 4.1	133 S1+	117								
880-19067-6	C-98 4.1	107	98								
880-19067-7	C-99 4.1	135 S1+	118								
880-19067-8	C-100 4.1	131 S1+	116								
880-19067-9	C-101 4.1	110	99								
880-19067-10	C-102 4.1	113	104								
880-19067-11	C-103 4.1	118	107								
880-19067-12	C-104 4.1	135 S1+	115								
880-19067-13	C-105 4.1	104	95								
880-19067-14	C-106 4.1	120	112								
880-19067-15	C-107 4.1	123	112								
880-19067-16	C-108 4.1	121	110								
880-19067-17	C-109 4.1	137 S1+	117								
880-19067-18	C-110 4.1	125	106								
880-19067-19	C-111 4.1	129	108								
880-19067-20	C-112 4.1	138 S1+	117								
880-19067-21	C-113 4.1	97	97								
880-19067-21 MS	C-113 4.1	81	70								
880-19067-21 MSD	C-113 4.1	84	73								
880-19067-22	C-114 4.1	94	92								
880-19067-23	C-115 4.1	89	90								
880-19067-24	C-116 4.1	83	84								
880-19067-25	C-117 4.1	83	83								
880-19067-26	C-118 4.1	97	94								
880-19067-27	C-119 4.1	83	83								
880-19067-28	C-120 4.1	110	106								
880-19067-29	C-121 4.1	91	89								
880-19067-30	C-122 4.1	119	114								
880-19067-31	C-123 4.1	90	89								
880-19067-32	C-124 4.1	90	89								
880-19067-33	C-125 4.1	112	109								
880-19067-34	C-126 4.1	110	112								
880-19067-35	C-127 4.1	95	94								
880-19067-36	C-128 4.1	109	103								
880-19067-37	C-129 4.1	82	78								
880-19067-38	C-130 4.1	113	105								
880-19067-39	C-131 4.1	84	84								
880-19067-40	C-132 4.1	100	92								
880-19067-41	C-133 4.1	90	84								
880-19067-42	C-134 4.1	92	86								
880-19067-43	C-135 4.1	92	87								
880-19067-44	C-136 4.1	93	88								
880-19067-45	C-137 4.1	127	126								
880-19067-46	C-82 2'	111	106								

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-19067-1
Project/Site: Limestone 1H SDG: 21-0100-24

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
880-19067-47	C-83 2'	105	101								
880-19067-48	C-84 2'	108	104								
880-19067-49	C-85 2'	111	109								
880-19067-50	C-86 2'	109	105								
880-19067-51	C-87 2'	108	106								
880-19067-52	C-88 2'	109	104								
880-19067-53	C-89 2'	109	106								
880-19067-54	C-90 2'	112	109								
880-19067-55	C-91 0-2'	102	96								
880-19067-56	C-92 0-2'	108	104								
LCS 880-34342/2-A	Lab Control Sample	85	92								
LCS 880-34343/2-A	Lab Control Sample	103	109								
LCS 880-34344/2-A	Lab Control Sample	140 S1+	138 S1+								
LCSD 880-34342/3-A	Lab Control Sample Dup	87	94								
LCSD 880-34343/3-A	Lab Control Sample Dup	104	105								
LCSD 880-34344/3-A	Lab Control Sample Dup	132 S1+	129								
MB 880-34342/1-A	Method Blank	103	106								
MB 880-34343/1-A	Method Blank	132 S1+	124								
MB 880-34344/1-A	Method Blank	106	109								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-34678/5-A
Matrix: Solid
Analysis Batch: 34891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34678

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 13:28	09/20/22 21:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 13:28	09/20/22 21:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 13:28	09/20/22 21:19	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/16/22 13:28	09/20/22 21:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 13:28	09/20/22 21:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/16/22 13:28	09/20/22 21:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/16/22 13:28*	*09/20/22 21:19*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*09/16/22 13:28*	*09/20/22 21:19*	*1*

Lab Sample ID: LCS 880-34678/1-A
Matrix: Solid
Analysis Batch: 34891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34678

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07760		mg/Kg		78	70 - 130		
Toluene			0.100	0.08472		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.09373		mg/Kg		94	70 - 130		
m,p-Xylenes			0.200	0.1798		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.1026		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: LCSD 880-34678/2-A
Matrix: Solid
Analysis Batch: 34891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34678

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09317		mg/Kg		93	70 - 130	18	35
Toluene			0.100	0.09586		mg/Kg		96	70 - 130	12	35
Ethylbenzene			0.100	0.1123		mg/Kg		112	70 - 130	18	35
m,p-Xylenes			0.200	0.2477		mg/Kg		124	70 - 130	32	35
o-Xylene			0.100	0.1428	*+	mg/Kg		143	70 - 130	33	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-34689/5-B
Matrix: Solid
Analysis Batch: 34832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34689

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 15:45	09/19/22 17:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 15:45	09/19/22 17:24	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-34689/5-B
Matrix: Solid
Analysis Batch: 34832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34689

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 15:45	09/19/22 17:24	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/16/22 15:45	09/19/22 17:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 15:45	09/19/22 17:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/16/22 15:45	09/19/22 17:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/16/22 15:45*	*09/19/22 17:24*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/16/22 15:45*	*09/19/22 17:24*	*1*

Lab Sample ID: MB 880-34690/5-A
Matrix: Solid
Analysis Batch: 34832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34690

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:06	09/20/22 05:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:06	09/20/22 05:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:06	09/20/22 05:00	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/16/22 16:06	09/20/22 05:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:06	09/20/22 05:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/16/22 16:06	09/20/22 05:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/16/22 16:06*	*09/20/22 05:00*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*09/16/22 16:06*	*09/20/22 05:00*	*1*

Lab Sample ID: LCS 880-34690/1-A
Matrix: Solid
Analysis Batch: 34832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34690

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09325		mg/Kg		93	70 - 130		
Toluene			0.100	0.08049		mg/Kg		80	70 - 130		
Ethylbenzene			0.100	0.07759		mg/Kg		78	70 - 130		
m,p-Xylenes			0.200	0.1618		mg/Kg		81	70 - 130		
o-Xylene			0.100	0.08093		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-34690/2-A
Matrix: Solid
Analysis Batch: 34832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34690

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09922		mg/Kg		99	70 - 130	6	35
Toluene			0.100	0.08461		mg/Kg		85	70 - 130	5	35
Ethylbenzene			0.100	0.08148		mg/Kg		81	70 - 130	5	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-34690/2-A
Matrix: Solid
Analysis Batch: 34832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34690

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			0.200	0.1684		mg/Kg		84	70 - 130	4	35
o-Xylene			0.100	0.08379		mg/Kg		84	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-19067-51 MS
Matrix: Solid
Analysis Batch: 34832

Client Sample ID: C-87 2'
Prep Type: Total/NA
Prep Batch: 34690

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00286	F2 F1	0.0998	0.02851	F1	mg/Kg		26	70 - 130
Toluene	0.00518	F2 F1	0.0998	0.02409	F1	mg/Kg		19	70 - 130
Ethylbenzene	0.00860	F2 F1	0.0998	0.02194	F1	mg/Kg		13	70 - 130
m,p-Xylenes	0.0175	F2 F1	0.200	0.04087	F1	mg/Kg		12	70 - 130
o-Xylene	0.00724	F2 F1	0.0998	0.02291	F1	mg/Kg		16	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-19067-51 MSD
Matrix: Solid
Analysis Batch: 34832

Client Sample ID: C-87 2'
Prep Type: Total/NA
Prep Batch: 34690

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00286	F2 F1	0.0990	0.05017	F2 F1	mg/Kg		48	70 - 130	55	35
Toluene	0.00518	F2 F1	0.0990	0.04534	F2 F1	mg/Kg		41	70 - 130	61	35
Ethylbenzene	0.00860	F2 F1	0.0990	0.04136	F2 F1	mg/Kg		33	70 - 130	61	35
m,p-Xylenes	0.0175	F2 F1	0.198	0.07749	F2 F1	mg/Kg		30	70 - 130	62	35
o-Xylene	0.00724	F2 F1	0.0990	0.04246	F2 F1	mg/Kg		36	70 - 130	60	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: MB 880-34694/5-A
Matrix: Solid
Analysis Batch: 35150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34694

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 16:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 16:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 16:46	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/16/22 16:49	09/22/22 16:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:49	09/22/22 16:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/16/22 16:49	09/22/22 16:46	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/16/22 16:49	09/22/22 16:46	1
1,4-Difluorobenzene (Surr)	116		70 - 130	09/16/22 16:49	09/22/22 16:46	1

Lab Sample ID: LCS 880-34694/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35150 — **Prep Batch: 34694**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08752		mg/Kg		88	70 - 130		
Toluene			0.100	0.09743		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09270		mg/Kg		93	70 - 130		
m,p-Xylenes			0.200	0.1903		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09570		mg/Kg		96	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-34694/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35150 — **Prep Batch: 34694**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08808		mg/Kg		88	70 - 130	1	35
Toluene			0.100	0.07731		mg/Kg		77	70 - 130	23	35
Ethylbenzene			0.100	0.06896	*-	mg/Kg		69	70 - 130	29	35
m,p-Xylenes			0.200	0.1443		mg/Kg		72	70 - 130	27	35
o-Xylene			0.100	0.07425		mg/Kg		74	70 - 130	25	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-19067-1 MS — **Client Sample ID: C-93 4.1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35150 — **Prep Batch: 34694**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.101	0.09214		mg/Kg		92	70 - 130		
Toluene	<0.00200	U	0.101	0.08138		mg/Kg		80	70 - 130		
Ethylbenzene	<0.00200	U *-	0.101	0.07678		mg/Kg		76	70 - 130		
m,p-Xylenes	<0.00401	U	0.201	0.1614		mg/Kg		80	70 - 130		
o-Xylene	<0.00200	U	0.101	0.08177		mg/Kg		81	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: 880-19067-1 MSD
Matrix: Solid
Analysis Batch: 35150

Client Sample ID: C-93 4.1
Prep Type: Total/NA
Prep Batch: 34694

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08125		mg/Kg		82	70 - 130	13	35
Toluene	<0.00200	U	0.0990	0.08064		mg/Kg		81	70 - 130	1	35
Ethylbenzene	<0.00200	U *-	0.0990	0.07915		mg/Kg		80	70 - 130	3	35
m,p-Xylenes	<0.00401	U	0.198	0.1646		mg/Kg		83	70 - 130	2	35
o-Xylene	<0.00200	U	0.0990	0.08330		mg/Kg		84	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 880-34695/5-A
Matrix: Solid
Analysis Batch: 35129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34695

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/22/22 22:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/22/22 22:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/22/22 22:17	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/16/22 16:52	09/22/22 22:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/22 16:52	09/22/22 22:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/16/22 16:52	09/22/22 22:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/16/22 16:52*	*09/22/22 22:17*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*09/16/22 16:52*	*09/22/22 22:17*	*1*

Lab Sample ID: LCS 880-34695/1-A
Matrix: Solid
Analysis Batch: 35129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34695

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07707		mg/Kg		77	70 - 130		
Toluene			0.100	0.07098		mg/Kg		71	70 - 130		
Ethylbenzene			0.100	0.07814		mg/Kg		78	70 - 130		
m,p-Xylenes			0.200	0.1628		mg/Kg		81	70 - 130		
o-Xylene			0.100	0.09436		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-34695/2-A
Matrix: Solid
Analysis Batch: 35129

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34695

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08039		mg/Kg		80	70 - 130	4	35
Toluene			0.100	0.07419		mg/Kg		74	70 - 130	4	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-34695/2-A
Matrix: Solid
Analysis Batch: 35129

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34695

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.08068		mg/Kg		81	70 - 130	3	35
m,p-Xylenes			0.200	0.1690		mg/Kg		85	70 - 130	4	35
o-Xylene			0.100	0.09794		mg/Kg		98	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-19067-21 MS
Matrix: Solid
Analysis Batch: 35129

Client Sample ID: C-113 4.1
Prep Type: Total/NA
Prep Batch: 34695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U F2 F1	0.0998	0.05977	F1	mg/Kg		60	70 - 130
Toluene	<0.00198	U F2 F1	0.0998	0.06569	F1	mg/Kg		65	70 - 130
Ethylbenzene	<0.00198	U F1	0.0998	0.07768		mg/Kg		78	70 - 130
m,p-Xylenes	<0.00396	U F1	0.200	0.1564		mg/Kg		78	70 - 130
o-Xylene	<0.00198	U F1	0.0998	0.09016		mg/Kg		90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-19067-21 MSD
Matrix: Solid
Analysis Batch: 35129

Client Sample ID: C-113 4.1
Prep Type: Total/NA
Prep Batch: 34695

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F2 F1	0.100	0.03908	F2 F1	mg/Kg		39	70 - 130	42	35
Toluene	<0.00198	U F2 F1	0.100	0.04535	F2 F1	mg/Kg		45	70 - 130	37	35
Ethylbenzene	<0.00198	U F1	0.100	0.05551	F1	mg/Kg		55	70 - 130	33	35
m,p-Xylenes	<0.00396	U F1	0.201	0.1104	F1	mg/Kg		55	70 - 130	34	35
o-Xylene	<0.00198	U F1	0.100	0.06406	F1	mg/Kg		64	70 - 130	34	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 880-34852/5-A
Matrix: Solid
Analysis Batch: 35059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34852

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:40	09/22/22 04:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:40	09/22/22 04:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:40	09/22/22 04:36	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/19/22 14:40	09/22/22 04:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:40	09/22/22 04:36	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-34852/5-A
Matrix: Solid
Analysis Batch: 35059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34852

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/19/22 14:40	09/22/22 04:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/19/22 14:40*	*09/22/22 04:36*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*09/19/22 14:40*	*09/22/22 04:36*	*1*

Lab Sample ID: LCS 880-34852/1-A
Matrix: Solid
Analysis Batch: 35059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34852

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09147		mg/Kg		91	70 - 130		
Toluene			0.100	0.08000		mg/Kg		80	70 - 130		
Ethylbenzene			0.100	0.07778		mg/Kg		78	70 - 130		
m,p-Xylenes			0.200	0.1632		mg/Kg		82	70 - 130		
o-Xylene			0.100	0.08198		mg/Kg		82	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-34852/2-A
Matrix: Solid
Analysis Batch: 35059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34852

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09109		mg/Kg		91	70 - 130	0	35
Toluene			0.100	0.08463		mg/Kg		85	70 - 130	6	35
Ethylbenzene			0.100	0.08432		mg/Kg		84	70 - 130	8	35
m,p-Xylenes			0.200	0.1777		mg/Kg		89	70 - 130	9	35
o-Xylene			0.100	0.09029		mg/Kg		90	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-19067-41 MS
Matrix: Solid
Analysis Batch: 35059

Client Sample ID: C-133 4.1
Prep Type: Total/NA
Prep Batch: 34852

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U F1	0.101	0.06984	F1	mg/Kg		69	70 - 130		
Toluene	<0.00202	U	0.101	0.07583		mg/Kg		75	70 - 130		
Ethylbenzene	<0.00202	U	0.101	0.07550		mg/Kg		75	70 - 130		
m,p-Xylenes	<0.00403	U	0.202	0.1603		mg/Kg		79	70 - 130		
o-Xylene	<0.00202	U	0.101	0.08295		mg/Kg		82	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: 880-19067-41 MS
Matrix: Solid
Analysis Batch: 35059

Client Sample ID: C-133 4.1
Prep Type: Total/NA
Prep Batch: 34852

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-19067-41 MSD
Matrix: Solid
Analysis Batch: 35059

Client Sample ID: C-133 4.1
Prep Type: Total/NA
Prep Batch: 34852

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.0996	0.08952		mg/Kg		90	70 - 130	25	35
Toluene	<0.00202	U	0.0996	0.07868		mg/Kg		78	70 - 130	4	35
Ethylbenzene	<0.00202	U	0.0996	0.07621		mg/Kg		77	70 - 130	1	35
m,p-Xylenes	<0.00403	U	0.199	0.1593		mg/Kg		80	70 - 130	1	35
o-Xylene	<0.00202	U	0.0996	0.08074		mg/Kg		81	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-34854/5-A
Matrix: Solid
Analysis Batch: 34891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34854

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:55	09/20/22 10:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:55	09/20/22 10:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:55	09/20/22 10:44	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/19/22 14:55	09/20/22 10:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/22 14:55	09/20/22 10:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/19/22 14:55	09/20/22 10:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/19/22 14:55	09/20/22 10:44	1
1,4-Difluorobenzene (Surr)	91		70 - 130	09/19/22 14:55	09/20/22 10:44	1

Lab Sample ID: LCS 880-34854/1-A
Matrix: Solid
Analysis Batch: 34891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34854

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09097		mg/Kg		91	70 - 130		
Toluene			0.100	0.09371		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.1136		mg/Kg		114	70 - 130		
m,p-Xylenes			0.200	0.2523		mg/Kg		126	70 - 130		
o-Xylene			0.100	0.1444	*+	mg/Kg		144	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-34854/1-A
Matrix: Solid
Analysis Batch: 34891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34854

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

Lab Sample ID: LCSD 880-34854/2-A
Matrix: Solid
Analysis Batch: 34891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34854

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07718		mg/Kg		77	70 - 130	16	35
Toluene			0.100	0.08630		mg/Kg		86	70 - 130	8	35
Ethylbenzene			0.100	0.1069		mg/Kg		107	70 - 130	6	35
m,p-Xylenes			0.200	0.2066		mg/Kg		103	70 - 130	20	35
o-Xylene			0.100	0.1153		mg/Kg		115	70 - 130	22	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: MB 880-34941/5-A
Matrix: Solid
Analysis Batch: 35013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34941

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/22 12:51	09/21/22 10:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/20/22 12:51	09/21/22 10:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/20/22 12:51	09/21/22 10:04	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/20/22 12:51	09/21/22 10:04	1

Lab Sample ID: LCS 880-34941/1-A
Matrix: Solid
Analysis Batch: 35013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34941

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.09016		mg/Kg		90	70 - 130
Toluene			0.100	0.08354		mg/Kg		84	70 - 130
Ethylbenzene			0.100	0.09804		mg/Kg		98	70 - 130
m,p-Xylenes			0.200	0.2015		mg/Kg		101	70 - 130
o-Xylene			0.100	0.1140		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-34941/2-A
Matrix: Solid
Analysis Batch: 35013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34941

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08653		mg/Kg		87	70 - 130	4	35
Toluene			0.100	0.07902		mg/Kg		79	70 - 130	6	35
Ethylbenzene			0.100	0.08170		mg/Kg		82	70 - 130	18	35
m,p-Xylenes			0.200	0.1706		mg/Kg		85	70 - 130	17	35
o-Xylene			0.100	0.09761		mg/Kg		98	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 880-34943/5-A
Matrix: Solid
Analysis Batch: 35129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34943

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/20/22 13:33	09/22/22 11:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/22 13:33	09/22/22 11:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/22 13:33	09/22/22 11:41	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/20/22 13:33	09/22/22 11:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/22 13:33	09/22/22 11:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/20/22 13:33	09/22/22 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/20/22 13:33*	*09/22/22 11:41*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*09/20/22 13:33*	*09/22/22 11:41*	*1*

Lab Sample ID: MB 880-35058/5-A
Matrix: Solid
Analysis Batch: 35059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35058

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 11:58	09/21/22 17:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 11:58	09/21/22 17:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 11:58	09/21/22 17:00	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/21/22 11:58	09/21/22 17:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 11:58	09/21/22 17:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/22 11:58	09/21/22 17:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/21/22 11:58*	*09/21/22 17:00*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*09/21/22 11:58*	*09/21/22 17:00*	*1*

Lab Sample ID: LCS 880-35058/1-A
Matrix: Solid
Analysis Batch: 35059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35058

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1031		mg/Kg		103	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-35058/1-A
Matrix: Solid
Analysis Batch: 35059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35058

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.08187		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.07908		mg/Kg		79	70 - 130
m,p-Xylenes	0.200	0.1612		mg/Kg		81	70 - 130
o-Xylene	0.100	0.07941		mg/Kg		79	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 880-35058/2-A
Matrix: Solid
Analysis Batch: 35059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35058

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1007		mg/Kg		101	70 - 130	2	35
Toluene	0.100	0.08108		mg/Kg		81	70 - 130	1	35
Ethylbenzene	0.100	0.07828		mg/Kg		78	70 - 130	1	35
m,p-Xylenes	0.200	0.1586		mg/Kg		79	70 - 130	2	35
o-Xylene	0.100	0.07788		mg/Kg		78	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 880-35157/5-A
Matrix: Solid
Analysis Batch: 35151

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35157

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/22 10:27	09/22/22 15:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/22 10:27	09/22/22 15:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/22 10:27	09/22/22 15:59	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/22/22 10:27	09/22/22 15:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/22 10:27	09/22/22 15:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/22/22 10:27	09/22/22 15:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/22/22 10:27*	*09/22/22 15:59*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/22/22 10:27*	*09/22/22 15:59*	*1*

Lab Sample ID: LCS 880-35157/1-A
Matrix: Solid
Analysis Batch: 35151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1010		mg/Kg		101	70 - 130
Toluene	0.100	0.09728		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1069		mg/Kg		107	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-35157/1-A
Matrix: Solid
Analysis Batch: 35151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35157

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m,p-Xylenes			0.200	0.2437		mg/Kg		122	70 - 130		
o-Xylene			0.100	0.1191		mg/Kg		119	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: LCSD 880-35157/2-A
Matrix: Solid
Analysis Batch: 35151

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35157

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09002		mg/Kg		90	70 - 130	11	35
Toluene			0.100	0.09451		mg/Kg		95	70 - 130	3	35
Ethylbenzene			0.100	0.1038		mg/Kg		104	70 - 130	3	35
m,p-Xylenes			0.200	0.2295		mg/Kg		115	70 - 130	6	35
o-Xylene			0.100	0.1105		mg/Kg		111	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

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

Lab Sample ID: MB 880-34342/1-A
Matrix: Solid
Analysis Batch: 34336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34342

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		09/13/22 08:25	09/13/22 09:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:25	09/13/22 09:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:25	09/13/22 09:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*09/13/22 08:25*	*09/13/22 09:38*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*09/13/22 08:25*	*09/13/22 09:38*	*1*

Lab Sample ID: LCS 880-34342/2-A
Matrix: Solid
Analysis Batch: 34336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34342

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	897.2		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	840.2		mg/Kg		84	70 - 130		

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-34342/2-A
Matrix: Solid
Analysis Batch: 34336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34342

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	85		70 - 130
o-Terphenyl (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-34342/3-A
Matrix: Solid
Analysis Batch: 34336

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34342

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	923.4		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	857.9		mg/Kg		86	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	87		70 - 130
o-Terphenyl (Surr)	94		70 - 130

Lab Sample ID: MB 880-34343/1-A
Matrix: Solid
Analysis Batch: 34332

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34343

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		09/13/22 08:26	09/13/22 09:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 09:41	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:26	09/13/22 09:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	132	S1+	70 - 130	09/13/22 08:26	09/13/22 09:41	1
o-Terphenyl (Surr)	124		70 - 130	09/13/22 08:26	09/13/22 09:41	1

Lab Sample ID: LCS 880-34343/2-A
Matrix: Solid
Analysis Batch: 34332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34343

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	927.4		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1003		mg/Kg		100	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	109		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-34343/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 34332 — **Prep Batch: 34343**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	856.9		mg/Kg		86	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	957.5		mg/Kg		96	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*104*		*70 - 130*
o-Terphenyl (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-19067-1 MS — **Client Sample ID: C-93 4.1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 34332 — **Prep Batch: 34343**

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	996	888.5		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1079		mg/Kg		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*108*		*70 - 130*
o-Terphenyl (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-19067-1 MSD — **Client Sample ID: C-93 4.1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 34332 — **Prep Batch: 34343**

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	837.3		mg/Kg		84	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	953.6		mg/Kg		95	70 - 130	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*108*		*70 - 130*
o-Terphenyl (Surr)	*83*		*70 - 130*

Lab Sample ID: MB 880-34344/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 34334 — **Prep Batch: 34344**

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		09/13/22 08:27	09/13/22 09:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 09:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 08:27	09/13/22 09:41	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-34344/1-A
Matrix: Solid
Analysis Batch: 34334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34344

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	09/13/22 08:27	09/13/22 09:41	1
o-Terphenyl (Surr)	109		70 - 130	09/13/22 08:27	09/13/22 09:41	1

Lab Sample ID: LCS 880-34344/2-A
Matrix: Solid
Analysis Batch: 34334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34344

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1081		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	962.2		mg/Kg		96	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	140	S1+	70 - 130
o-Terphenyl (Surr)	138	S1+	70 - 130

Lab Sample ID: LCSD 880-34344/3-A
Matrix: Solid
Analysis Batch: 34334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34344

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	924.1		mg/Kg		92	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	998.7		mg/Kg		100	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	132	S1+	70 - 130
o-Terphenyl (Surr)	129		70 - 130

Lab Sample ID: 880-19067-21 MS
Matrix: Solid
Analysis Batch: 34334

Client Sample ID: C-113 4.1
Prep Type: Total/NA
Prep Batch: 34344

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	996	798.6		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	756.6		mg/Kg		72	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	81		70 - 130
o-Terphenyl (Surr)	70		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

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

Lab Sample ID: 880-19067-21 MSD
Matrix: Solid
Analysis Batch: 34334

Client Sample ID: C-113 4.1
Prep Type: Total/NA
Prep Batch: 34344

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	843.2		mg/Kg		82	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	795.9		mg/Kg		76	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*84*		*70 - 130*
o-Terphenyl (Surr)	*73*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34289/1-A
Matrix: Solid
Analysis Batch: 34571

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			09/15/22 19:07	1

Lab Sample ID: LCS 880-34289/2-A
Matrix: Solid
Analysis Batch: 34571

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	220.4	*-	mg/Kg		88	90 - 110

Lab Sample ID: LCSD 880-34289/3-A
Matrix: Solid
Analysis Batch: 34571

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	225.1		mg/Kg		90	90 - 110	2	20

Lab Sample ID: MB 880-34290/1-A
Matrix: Solid
Analysis Batch: 34572

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			09/16/22 00:32	1

Lab Sample ID: LCS 880-34290/2-A
Matrix: Solid
Analysis Batch: 34572

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	228.0		mg/Kg		91	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-34290/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 34572

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	229.0		mg/Kg		92	90 - 110	0	20

Lab Sample ID: 880-19067-7 MS — **Client Sample ID: C-99 4.1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 34572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1200		1250	2528		mg/Kg		107	90 - 110

Lab Sample ID: 880-19067-7 MSD — **Client Sample ID: C-99 4.1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 34572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1200		1250	2536		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-19067-17 MS — **Client Sample ID: C-109 4.1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 34572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	617		250	889.0		mg/Kg		109	90 - 110

Lab Sample ID: 880-19067-17 MSD — **Client Sample ID: C-109 4.1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 34572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	617		250	884.2		mg/Kg		107	90 - 110	1	20

Lab Sample ID: MB 880-34291/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 34574

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/15/22 13:24	1

Lab Sample ID: LCS 880-34291/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 34574

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	227.5		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-34291/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 34574

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	225.7		mg/Kg		90	90 - 110	1	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-19067-27 MS
Matrix: Solid
Analysis Batch: 34574

Client Sample ID: C-119 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	982	F1	250	1170	F1	mg/Kg		75	90 - 110

Lab Sample ID: 880-19067-27 MSD
Matrix: Solid
Analysis Batch: 34574

Client Sample ID: C-119 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	982	F1	250	1167	F1	mg/Kg		74	90 - 110	0	20

Lab Sample ID: 880-19067-37 MS
Matrix: Solid
Analysis Batch: 34574

Client Sample ID: C-129 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	690	F1	251	909.7	F1	mg/Kg		88	90 - 110

Lab Sample ID: 880-19067-37 MSD
Matrix: Solid
Analysis Batch: 34574

Client Sample ID: C-129 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	690	F1	251	913.1	F1	mg/Kg		89	90 - 110	0	20

Lab Sample ID: MB 880-34308/1-A
Matrix: Solid
Analysis Batch: 34575

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			09/15/22 17:36	1

Lab Sample ID: LCS 880-34308/2-A
Matrix: Solid
Analysis Batch: 34575

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	243.4		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-34308/3-A
Matrix: Solid
Analysis Batch: 34575

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	252.3		mg/Kg		101	90 - 110	4	20

Lab Sample ID: 880-19067-46 MS
Matrix: Solid
Analysis Batch: 34575

Client Sample ID: C-82 2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	60.9		251	316.5		mg/Kg		102	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-19067-46 MSD
Matrix: Solid
Analysis Batch: 34575

Client Sample ID: C-82 2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	60.9		251	315.7		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-19067-56 MS
Matrix: Solid
Analysis Batch: 34575

Client Sample ID: C-92 0-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	129		250	390.4		mg/Kg		105	90 - 110

Lab Sample ID: 880-19067-56 MSD
Matrix: Solid
Analysis Batch: 34575

Client Sample ID: C-92 0-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	129		250	383.9		mg/Kg		102	90 - 110	2	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

GC VOA

Prep Batch: 34678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-46	C-82 2'	Total/NA	Solid	5035	
880-19067-47	C-83 2'	Total/NA	Solid	5035	
880-19067-48	C-84 2'	Total/NA	Solid	5035	
880-19067-49	C-85 2'	Total/NA	Solid	5035	
880-19067-50	C-86 2'	Total/NA	Solid	5035	
MB 880-34678/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34678/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34678/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 34689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-34689/5-B	Method Blank	Total/NA	Solid	5035	

Prep Batch: 34690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-51	C-87 2'	Total/NA	Solid	5035	
880-19067-52	C-88 2'	Total/NA	Solid	5035	
880-19067-53	C-89 2'	Total/NA	Solid	5035	
880-19067-54	C-90 2'	Total/NA	Solid	5035	
880-19067-55	C-91 0-2'	Total/NA	Solid	5035	
880-19067-56	C-92 0-2'	Total/NA	Solid	5035	
MB 880-34690/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34690/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34690/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19067-51 MS	C-87 2'	Total/NA	Solid	5035	
880-19067-51 MSD	C-87 2'	Total/NA	Solid	5035	

Prep Batch: 34694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-1	C-93 4.1	Total/NA	Solid	5035	
880-19067-2	C-94 4.1	Total/NA	Solid	5035	
880-19067-3	C-95 4.1	Total/NA	Solid	5035	
880-19067-4	C-96 4.1	Total/NA	Solid	5035	
880-19067-5	C-97 4.1	Total/NA	Solid	5035	
880-19067-6	C-98 4.1	Total/NA	Solid	5035	
880-19067-7	C-99 4.1	Total/NA	Solid	5035	
880-19067-8	C-100 4.1	Total/NA	Solid	5035	
880-19067-9	C-101 4.1	Total/NA	Solid	5035	
880-19067-10	C-102 4.1	Total/NA	Solid	5035	
880-19067-11	C-103 4.1	Total/NA	Solid	5035	
880-19067-12	C-104 4.1	Total/NA	Solid	5035	
880-19067-13	C-105 4.1	Total/NA	Solid	5035	
880-19067-14	C-106 4.1	Total/NA	Solid	5035	
880-19067-15	C-107 4.1	Total/NA	Solid	5035	
880-19067-16	C-108 4.1	Total/NA	Solid	5035	
880-19067-17	C-109 4.1	Total/NA	Solid	5035	
MB 880-34694/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34694/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34694/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19067-1 MS	C-93 4.1	Total/NA	Solid	5035	
880-19067-1 MSD	C-93 4.1	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

GC VOA

Prep Batch: 34695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-21	C-113 4.1	Total/NA	Solid	5035	
880-19067-22	C-114 4.1	Total/NA	Solid	5035	
880-19067-23	C-115 4.1	Total/NA	Solid	5035	
880-19067-24	C-116 4.1	Total/NA	Solid	5035	
880-19067-25	C-117 4.1	Total/NA	Solid	5035	
880-19067-26	C-118 4.1	Total/NA	Solid	5035	
880-19067-27	C-119 4.1	Total/NA	Solid	5035	
880-19067-28	C-120 4.1	Total/NA	Solid	5035	
880-19067-29	C-121 4.1	Total/NA	Solid	5035	
880-19067-30	C-122 4.1	Total/NA	Solid	5035	
880-19067-31	C-123 4.1	Total/NA	Solid	5035	
880-19067-32	C-124 4.1	Total/NA	Solid	5035	
880-19067-33	C-125 4.1	Total/NA	Solid	5035	
880-19067-34	C-126 4.1	Total/NA	Solid	5035	
880-19067-35	C-127 4.1	Total/NA	Solid	5035	
880-19067-36	C-128 4.1	Total/NA	Solid	5035	
880-19067-37	C-129 4.1	Total/NA	Solid	5035	
880-19067-38	C-130 4.1	Total/NA	Solid	5035	
880-19067-39	C-131 4.1	Total/NA	Solid	5035	
880-19067-40	C-132 4.1	Total/NA	Solid	5035	
MB 880-34695/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34695/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34695/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19067-21 MS	C-113 4.1	Total/NA	Solid	5035	
880-19067-21 MSD	C-113 4.1	Total/NA	Solid	5035	

Analysis Batch: 34832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-51	C-87 2'	Total/NA	Solid	8021B	34690
880-19067-52	C-88 2'	Total/NA	Solid	8021B	34690
880-19067-53	C-89 2'	Total/NA	Solid	8021B	34690
880-19067-54	C-90 2'	Total/NA	Solid	8021B	34690
880-19067-55	C-91 0-2'	Total/NA	Solid	8021B	34690
880-19067-56	C-92 0-2'	Total/NA	Solid	8021B	34690
MB 880-34689/5-B	Method Blank	Total/NA	Solid	8021B	34689
MB 880-34690/5-A	Method Blank	Total/NA	Solid	8021B	34690
LCS 880-34690/1-A	Lab Control Sample	Total/NA	Solid	8021B	34690
LCSD 880-34690/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34690
880-19067-51 MS	C-87 2'	Total/NA	Solid	8021B	34690
880-19067-51 MSD	C-87 2'	Total/NA	Solid	8021B	34690

Prep Batch: 34852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-41	C-133 4.1	Total/NA	Solid	5035	
MB 880-34852/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34852/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34852/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19067-41 MS	C-133 4.1	Total/NA	Solid	5035	
880-19067-41 MSD	C-133 4.1	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

GC VOA

Prep Batch: 34854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-34854/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34854/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34854/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 34891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-46	C-82 2'	Total/NA	Solid	8021B	34678
880-19067-47	C-83 2'	Total/NA	Solid	8021B	34678
880-19067-48	C-84 2'	Total/NA	Solid	8021B	34678
880-19067-49	C-85 2'	Total/NA	Solid	8021B	34678
880-19067-50	C-86 2'	Total/NA	Solid	8021B	34678
MB 880-34678/5-A	Method Blank	Total/NA	Solid	8021B	34678
MB 880-34854/5-A	Method Blank	Total/NA	Solid	8021B	34854
LCS 880-34678/1-A	Lab Control Sample	Total/NA	Solid	8021B	34678
LCS 880-34854/1-A	Lab Control Sample	Total/NA	Solid	8021B	34854
LCSD 880-34678/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34678
LCSD 880-34854/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34854

Analysis Batch: 34921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-1	C-93 4.1	Total/NA	Solid	Total BTEX	
880-19067-2	C-94 4.1	Total/NA	Solid	Total BTEX	
880-19067-3	C-95 4.1	Total/NA	Solid	Total BTEX	
880-19067-4	C-96 4.1	Total/NA	Solid	Total BTEX	
880-19067-5	C-97 4.1	Total/NA	Solid	Total BTEX	
880-19067-6	C-98 4.1	Total/NA	Solid	Total BTEX	
880-19067-7	C-99 4.1	Total/NA	Solid	Total BTEX	
880-19067-8	C-100 4.1	Total/NA	Solid	Total BTEX	
880-19067-9	C-101 4.1	Total/NA	Solid	Total BTEX	
880-19067-10	C-102 4.1	Total/NA	Solid	Total BTEX	
880-19067-11	C-103 4.1	Total/NA	Solid	Total BTEX	
880-19067-12	C-104 4.1	Total/NA	Solid	Total BTEX	
880-19067-13	C-105 4.1	Total/NA	Solid	Total BTEX	
880-19067-14	C-106 4.1	Total/NA	Solid	Total BTEX	
880-19067-15	C-107 4.1	Total/NA	Solid	Total BTEX	
880-19067-16	C-108 4.1	Total/NA	Solid	Total BTEX	
880-19067-17	C-109 4.1	Total/NA	Solid	Total BTEX	
880-19067-18	C-110 4.1	Total/NA	Solid	Total BTEX	
880-19067-19	C-111 4.1	Total/NA	Solid	Total BTEX	
880-19067-20	C-112 4.1	Total/NA	Solid	Total BTEX	
880-19067-21	C-113 4.1	Total/NA	Solid	Total BTEX	
880-19067-22	C-114 4.1	Total/NA	Solid	Total BTEX	
880-19067-23	C-115 4.1	Total/NA	Solid	Total BTEX	
880-19067-24	C-116 4.1	Total/NA	Solid	Total BTEX	
880-19067-25	C-117 4.1	Total/NA	Solid	Total BTEX	
880-19067-26	C-118 4.1	Total/NA	Solid	Total BTEX	
880-19067-27	C-119 4.1	Total/NA	Solid	Total BTEX	
880-19067-28	C-120 4.1	Total/NA	Solid	Total BTEX	
880-19067-29	C-121 4.1	Total/NA	Solid	Total BTEX	
880-19067-30	C-122 4.1	Total/NA	Solid	Total BTEX	
880-19067-31	C-123 4.1	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

GC VOA (Continued)

Analysis Batch: 34921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-32	C-124 4.1	Total/NA	Solid	Total BTEX	
880-19067-33	C-125 4.1	Total/NA	Solid	Total BTEX	
880-19067-34	C-126 4.1	Total/NA	Solid	Total BTEX	
880-19067-35	C-127 4.1	Total/NA	Solid	Total BTEX	
880-19067-36	C-128 4.1	Total/NA	Solid	Total BTEX	
880-19067-37	C-129 4.1	Total/NA	Solid	Total BTEX	
880-19067-38	C-130 4.1	Total/NA	Solid	Total BTEX	
880-19067-39	C-131 4.1	Total/NA	Solid	Total BTEX	
880-19067-40	C-132 4.1	Total/NA	Solid	Total BTEX	
880-19067-41	C-133 4.1	Total/NA	Solid	Total BTEX	
880-19067-42	C-134 4.1	Total/NA	Solid	Total BTEX	
880-19067-43	C-135 4.1	Total/NA	Solid	Total BTEX	
880-19067-44	C-136 4.1	Total/NA	Solid	Total BTEX	
880-19067-45	C-137 4.1	Total/NA	Solid	Total BTEX	
880-19067-46	C-82 2'	Total/NA	Solid	Total BTEX	
880-19067-47	C-83 2'	Total/NA	Solid	Total BTEX	
880-19067-48	C-84 2'	Total/NA	Solid	Total BTEX	
880-19067-49	C-85 2'	Total/NA	Solid	Total BTEX	
880-19067-50	C-86 2'	Total/NA	Solid	Total BTEX	
880-19067-51	C-87 2'	Total/NA	Solid	Total BTEX	
880-19067-52	C-88 2'	Total/NA	Solid	Total BTEX	
880-19067-53	C-89 2'	Total/NA	Solid	Total BTEX	
880-19067-54	C-90 2'	Total/NA	Solid	Total BTEX	
880-19067-55	C-91 0-2'	Total/NA	Solid	Total BTEX	
880-19067-56	C-92 0-2'	Total/NA	Solid	Total BTEX	

Prep Batch: 34941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-34941/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34941/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34941/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 34943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-34943/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 35013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-34941/5-A	Method Blank	Total/NA	Solid	8021B	34941
LCS 880-34941/1-A	Lab Control Sample	Total/NA	Solid	8021B	34941
LCSD 880-34941/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34941

Prep Batch: 35058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-42	C-134 4.1	Total/NA	Solid	5035	
880-19067-43	C-135 4.1	Total/NA	Solid	5035	
880-19067-44	C-136 4.1	Total/NA	Solid	5035	
880-19067-45	C-137 4.1	Total/NA	Solid	5035	
MB 880-35058/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35058/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35058/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

GC VOA

Analysis Batch: 35059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-41	C-133 4.1	Total/NA	Solid	8021B	34852
880-19067-42	C-134 4.1	Total/NA	Solid	8021B	35058
880-19067-43	C-135 4.1	Total/NA	Solid	8021B	35058
880-19067-44	C-136 4.1	Total/NA	Solid	8021B	35058
880-19067-45	C-137 4.1	Total/NA	Solid	8021B	35058
MB 880-34852/5-A	Method Blank	Total/NA	Solid	8021B	34852
MB 880-35058/5-A	Method Blank	Total/NA	Solid	8021B	35058
LCS 880-34852/1-A	Lab Control Sample	Total/NA	Solid	8021B	34852
LCS 880-35058/1-A	Lab Control Sample	Total/NA	Solid	8021B	35058
LCSD 880-34852/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34852
LCSD 880-35058/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35058
880-19067-41 MS	C-133 4.1	Total/NA	Solid	8021B	34852
880-19067-41 MSD	C-133 4.1	Total/NA	Solid	8021B	34852

Analysis Batch: 35129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-21	C-113 4.1	Total/NA	Solid	8021B	34695
880-19067-22	C-114 4.1	Total/NA	Solid	8021B	34695
880-19067-23	C-115 4.1	Total/NA	Solid	8021B	34695
880-19067-24	C-116 4.1	Total/NA	Solid	8021B	34695
880-19067-25	C-117 4.1	Total/NA	Solid	8021B	34695
880-19067-26	C-118 4.1	Total/NA	Solid	8021B	34695
880-19067-27	C-119 4.1	Total/NA	Solid	8021B	34695
880-19067-28	C-120 4.1	Total/NA	Solid	8021B	34695
880-19067-29	C-121 4.1	Total/NA	Solid	8021B	34695
880-19067-30	C-122 4.1	Total/NA	Solid	8021B	34695
880-19067-31	C-123 4.1	Total/NA	Solid	8021B	34695
880-19067-32	C-124 4.1	Total/NA	Solid	8021B	34695
880-19067-33	C-125 4.1	Total/NA	Solid	8021B	34695
880-19067-34	C-126 4.1	Total/NA	Solid	8021B	34695
880-19067-35	C-127 4.1	Total/NA	Solid	8021B	34695
880-19067-36	C-128 4.1	Total/NA	Solid	8021B	34695
880-19067-37	C-129 4.1	Total/NA	Solid	8021B	34695
880-19067-38	C-130 4.1	Total/NA	Solid	8021B	34695
880-19067-39	C-131 4.1	Total/NA	Solid	8021B	34695
880-19067-40	C-132 4.1	Total/NA	Solid	8021B	34695
MB 880-34695/5-A	Method Blank	Total/NA	Solid	8021B	34695
MB 880-34943/5-A	Method Blank	Total/NA	Solid	8021B	34943
LCS 880-34695/1-A	Lab Control Sample	Total/NA	Solid	8021B	34695
LCSD 880-34695/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34695
880-19067-21 MS	C-113 4.1	Total/NA	Solid	8021B	34695
880-19067-21 MSD	C-113 4.1	Total/NA	Solid	8021B	34695

Analysis Batch: 35150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-1	C-93 4.1	Total/NA	Solid	8021B	34694
880-19067-2	C-94 4.1	Total/NA	Solid	8021B	34694
880-19067-3	C-95 4.1	Total/NA	Solid	8021B	34694
880-19067-4	C-96 4.1	Total/NA	Solid	8021B	34694
880-19067-5	C-97 4.1	Total/NA	Solid	8021B	34694
880-19067-6	C-98 4.1	Total/NA	Solid	8021B	34694

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

GC VOA (Continued)

Analysis Batch: 35150 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-7	C-99 4.1	Total/NA	Solid	8021B	34694
880-19067-8	C-100 4.1	Total/NA	Solid	8021B	34694
880-19067-9	C-101 4.1	Total/NA	Solid	8021B	34694
880-19067-10	C-102 4.1	Total/NA	Solid	8021B	34694
880-19067-11	C-103 4.1	Total/NA	Solid	8021B	34694
880-19067-12	C-104 4.1	Total/NA	Solid	8021B	34694
880-19067-13	C-105 4.1	Total/NA	Solid	8021B	34694
880-19067-14	C-106 4.1	Total/NA	Solid	8021B	34694
880-19067-15	C-107 4.1	Total/NA	Solid	8021B	34694
880-19067-16	C-108 4.1	Total/NA	Solid	8021B	34694
880-19067-17	C-109 4.1	Total/NA	Solid	8021B	34694
MB 880-34694/5-A	Method Blank	Total/NA	Solid	8021B	34694
LCS 880-34694/1-A	Lab Control Sample	Total/NA	Solid	8021B	34694
LCSD 880-34694/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34694
880-19067-1 MS	C-93 4.1	Total/NA	Solid	8021B	34694
880-19067-1 MSD	C-93 4.1	Total/NA	Solid	8021B	34694

Analysis Batch: 35151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-18	C-110 4.1	Total/NA	Solid	8021B	35157
880-19067-19	C-111 4.1	Total/NA	Solid	8021B	35157
880-19067-20	C-112 4.1	Total/NA	Solid	8021B	35157
MB 880-35157/5-A	Method Blank	Total/NA	Solid	8021B	35157
LCS 880-35157/1-A	Lab Control Sample	Total/NA	Solid	8021B	35157
LCSD 880-35157/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35157

Prep Batch: 35157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-18	C-110 4.1	Total/NA	Solid	5035	
880-19067-19	C-111 4.1	Total/NA	Solid	5035	
880-19067-20	C-112 4.1	Total/NA	Solid	5035	
MB 880-35157/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35157/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35157/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 34332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-1	C-93 4.1	Total/NA	Solid	8015B NM	34343
880-19067-2	C-94 4.1	Total/NA	Solid	8015B NM	34343
880-19067-3	C-95 4.1	Total/NA	Solid	8015B NM	34343
880-19067-4	C-96 4.1	Total/NA	Solid	8015B NM	34343
880-19067-5	C-97 4.1	Total/NA	Solid	8015B NM	34343
880-19067-6	C-98 4.1	Total/NA	Solid	8015B NM	34343
880-19067-7	C-99 4.1	Total/NA	Solid	8015B NM	34343
880-19067-8	C-100 4.1	Total/NA	Solid	8015B NM	34343
880-19067-9	C-101 4.1	Total/NA	Solid	8015B NM	34343
880-19067-10	C-102 4.1	Total/NA	Solid	8015B NM	34343
880-19067-11	C-103 4.1	Total/NA	Solid	8015B NM	34343
880-19067-12	C-104 4.1	Total/NA	Solid	8015B NM	34343

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 34332 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-13	C-105 4.1	Total/NA	Solid	8015B NM	34343
880-19067-14	C-106 4.1	Total/NA	Solid	8015B NM	34343
880-19067-15	C-107 4.1	Total/NA	Solid	8015B NM	34343
880-19067-16	C-108 4.1	Total/NA	Solid	8015B NM	34343
880-19067-17	C-109 4.1	Total/NA	Solid	8015B NM	34343
880-19067-18	C-110 4.1	Total/NA	Solid	8015B NM	34343
880-19067-19	C-111 4.1	Total/NA	Solid	8015B NM	34343
880-19067-20	C-112 4.1	Total/NA	Solid	8015B NM	34343
MB 880-34343/1-A	Method Blank	Total/NA	Solid	8015B NM	34343
LCS 880-34343/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34343
LCSD 880-34343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34343
880-19067-1 MS	C-93 4.1	Total/NA	Solid	8015B NM	34343
880-19067-1 MSD	C-93 4.1	Total/NA	Solid	8015B NM	34343

Analysis Batch: 34334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-21	C-113 4.1	Total/NA	Solid	8015B NM	34344
880-19067-22	C-114 4.1	Total/NA	Solid	8015B NM	34344
880-19067-23	C-115 4.1	Total/NA	Solid	8015B NM	34344
880-19067-24	C-116 4.1	Total/NA	Solid	8015B NM	34344
880-19067-25	C-117 4.1	Total/NA	Solid	8015B NM	34344
880-19067-26	C-118 4.1	Total/NA	Solid	8015B NM	34344
880-19067-27	C-119 4.1	Total/NA	Solid	8015B NM	34344
880-19067-28	C-120 4.1	Total/NA	Solid	8015B NM	34344
880-19067-29	C-121 4.1	Total/NA	Solid	8015B NM	34344
880-19067-30	C-122 4.1	Total/NA	Solid	8015B NM	34344
880-19067-31	C-123 4.1	Total/NA	Solid	8015B NM	34344
880-19067-32	C-124 4.1	Total/NA	Solid	8015B NM	34344
880-19067-33	C-125 4.1	Total/NA	Solid	8015B NM	34344
880-19067-34	C-126 4.1	Total/NA	Solid	8015B NM	34344
880-19067-35	C-127 4.1	Total/NA	Solid	8015B NM	34344
880-19067-36	C-128 4.1	Total/NA	Solid	8015B NM	34344
880-19067-37	C-129 4.1	Total/NA	Solid	8015B NM	34344
880-19067-38	C-130 4.1	Total/NA	Solid	8015B NM	34344
880-19067-39	C-131 4.1	Total/NA	Solid	8015B NM	34344
880-19067-40	C-132 4.1	Total/NA	Solid	8015B NM	34344
MB 880-34344/1-A	Method Blank	Total/NA	Solid	8015B NM	34344
LCS 880-34344/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34344
LCSD 880-34344/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34344
880-19067-21 MS	C-113 4.1	Total/NA	Solid	8015B NM	34344
880-19067-21 MSD	C-113 4.1	Total/NA	Solid	8015B NM	34344

Analysis Batch: 34336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-41	C-133 4.1	Total/NA	Solid	8015B NM	34342
880-19067-42	C-134 4.1	Total/NA	Solid	8015B NM	34342
880-19067-43	C-135 4.1	Total/NA	Solid	8015B NM	34342
880-19067-44	C-136 4.1	Total/NA	Solid	8015B NM	34342
880-19067-45	C-137 4.1	Total/NA	Solid	8015B NM	34342
880-19067-46	C-82 2'	Total/NA	Solid	8015B NM	34342
880-19067-47	C-83 2'	Total/NA	Solid	8015B NM	34342

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 34336 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-48	C-84 2'	Total/NA	Solid	8015B NM	34342
880-19067-49	C-85 2'	Total/NA	Solid	8015B NM	34342
880-19067-50	C-86 2'	Total/NA	Solid	8015B NM	34342
880-19067-51	C-87 2'	Total/NA	Solid	8015B NM	34342
880-19067-52	C-88 2'	Total/NA	Solid	8015B NM	34342
880-19067-53	C-89 2'	Total/NA	Solid	8015B NM	34342
880-19067-54	C-90 2'	Total/NA	Solid	8015B NM	34342
880-19067-55	C-91 0-2'	Total/NA	Solid	8015B NM	34342
880-19067-56	C-92 0-2'	Total/NA	Solid	8015B NM	34342
MB 880-34342/1-A	Method Blank	Total/NA	Solid	8015B NM	34342
LCS 880-34342/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34342
LCSD 880-34342/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34342

Prep Batch: 34342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-41	C-133 4.1	Total/NA	Solid	8015NM Prep	
880-19067-42	C-134 4.1	Total/NA	Solid	8015NM Prep	
880-19067-43	C-135 4.1	Total/NA	Solid	8015NM Prep	
880-19067-44	C-136 4.1	Total/NA	Solid	8015NM Prep	
880-19067-45	C-137 4.1	Total/NA	Solid	8015NM Prep	
880-19067-46	C-82 2'	Total/NA	Solid	8015NM Prep	
880-19067-47	C-83 2'	Total/NA	Solid	8015NM Prep	
880-19067-48	C-84 2'	Total/NA	Solid	8015NM Prep	
880-19067-49	C-85 2'	Total/NA	Solid	8015NM Prep	
880-19067-50	C-86 2'	Total/NA	Solid	8015NM Prep	
880-19067-51	C-87 2'	Total/NA	Solid	8015NM Prep	
880-19067-52	C-88 2'	Total/NA	Solid	8015NM Prep	
880-19067-53	C-89 2'	Total/NA	Solid	8015NM Prep	
880-19067-54	C-90 2'	Total/NA	Solid	8015NM Prep	
880-19067-55	C-91 0-2'	Total/NA	Solid	8015NM Prep	
880-19067-56	C-92 0-2'	Total/NA	Solid	8015NM Prep	
MB 880-34342/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34342/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34342/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 34343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-1	C-93 4.1	Total/NA	Solid	8015NM Prep	
880-19067-2	C-94 4.1	Total/NA	Solid	8015NM Prep	
880-19067-3	C-95 4.1	Total/NA	Solid	8015NM Prep	
880-19067-4	C-96 4.1	Total/NA	Solid	8015NM Prep	
880-19067-5	C-97 4.1	Total/NA	Solid	8015NM Prep	
880-19067-6	C-98 4.1	Total/NA	Solid	8015NM Prep	
880-19067-7	C-99 4.1	Total/NA	Solid	8015NM Prep	
880-19067-8	C-100 4.1	Total/NA	Solid	8015NM Prep	
880-19067-9	C-101 4.1	Total/NA	Solid	8015NM Prep	
880-19067-10	C-102 4.1	Total/NA	Solid	8015NM Prep	
880-19067-11	C-103 4.1	Total/NA	Solid	8015NM Prep	
880-19067-12	C-104 4.1	Total/NA	Solid	8015NM Prep	
880-19067-13	C-105 4.1	Total/NA	Solid	8015NM Prep	
880-19067-14	C-106 4.1	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Prep Batch: 34343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-15	C-107 4.1	Total/NA	Solid	8015NM Prep	
880-19067-16	C-108 4.1	Total/NA	Solid	8015NM Prep	
880-19067-17	C-109 4.1	Total/NA	Solid	8015NM Prep	
880-19067-18	C-110 4.1	Total/NA	Solid	8015NM Prep	
880-19067-19	C-111 4.1	Total/NA	Solid	8015NM Prep	
880-19067-20	C-112 4.1	Total/NA	Solid	8015NM Prep	
MB 880-34343/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34343/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19067-1 MS	C-93 4.1	Total/NA	Solid	8015NM Prep	
880-19067-1 MSD	C-93 4.1	Total/NA	Solid	8015NM Prep	

Prep Batch: 34344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-21	C-113 4.1	Total/NA	Solid	8015NM Prep	
880-19067-22	C-114 4.1	Total/NA	Solid	8015NM Prep	
880-19067-23	C-115 4.1	Total/NA	Solid	8015NM Prep	
880-19067-24	C-116 4.1	Total/NA	Solid	8015NM Prep	
880-19067-25	C-117 4.1	Total/NA	Solid	8015NM Prep	
880-19067-26	C-118 4.1	Total/NA	Solid	8015NM Prep	
880-19067-27	C-119 4.1	Total/NA	Solid	8015NM Prep	
880-19067-28	C-120 4.1	Total/NA	Solid	8015NM Prep	
880-19067-29	C-121 4.1	Total/NA	Solid	8015NM Prep	
880-19067-30	C-122 4.1	Total/NA	Solid	8015NM Prep	
880-19067-31	C-123 4.1	Total/NA	Solid	8015NM Prep	
880-19067-32	C-124 4.1	Total/NA	Solid	8015NM Prep	
880-19067-33	C-125 4.1	Total/NA	Solid	8015NM Prep	
880-19067-34	C-126 4.1	Total/NA	Solid	8015NM Prep	
880-19067-35	C-127 4.1	Total/NA	Solid	8015NM Prep	
880-19067-36	C-128 4.1	Total/NA	Solid	8015NM Prep	
880-19067-37	C-129 4.1	Total/NA	Solid	8015NM Prep	
880-19067-38	C-130 4.1	Total/NA	Solid	8015NM Prep	
880-19067-39	C-131 4.1	Total/NA	Solid	8015NM Prep	
880-19067-40	C-132 4.1	Total/NA	Solid	8015NM Prep	
MB 880-34344/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34344/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34344/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19067-21 MS	C-113 4.1	Total/NA	Solid	8015NM Prep	
880-19067-21 MSD	C-113 4.1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 34460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-1	C-93 4.1	Total/NA	Solid	8015 NM	
880-19067-2	C-94 4.1	Total/NA	Solid	8015 NM	
880-19067-3	C-95 4.1	Total/NA	Solid	8015 NM	
880-19067-4	C-96 4.1	Total/NA	Solid	8015 NM	
880-19067-5	C-97 4.1	Total/NA	Solid	8015 NM	
880-19067-6	C-98 4.1	Total/NA	Solid	8015 NM	
880-19067-7	C-99 4.1	Total/NA	Solid	8015 NM	
880-19067-8	C-100 4.1	Total/NA	Solid	8015 NM	
880-19067-9	C-101 4.1	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 34460 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-10	C-102 4.1	Total/NA	Solid	8015 NM	
880-19067-11	C-103 4.1	Total/NA	Solid	8015 NM	
880-19067-12	C-104 4.1	Total/NA	Solid	8015 NM	
880-19067-13	C-105 4.1	Total/NA	Solid	8015 NM	
880-19067-14	C-106 4.1	Total/NA	Solid	8015 NM	
880-19067-15	C-107 4.1	Total/NA	Solid	8015 NM	
880-19067-16	C-108 4.1	Total/NA	Solid	8015 NM	
880-19067-17	C-109 4.1	Total/NA	Solid	8015 NM	
880-19067-18	C-110 4.1	Total/NA	Solid	8015 NM	
880-19067-19	C-111 4.1	Total/NA	Solid	8015 NM	
880-19067-20	C-112 4.1	Total/NA	Solid	8015 NM	
880-19067-21	C-113 4.1	Total/NA	Solid	8015 NM	
880-19067-22	C-114 4.1	Total/NA	Solid	8015 NM	
880-19067-23	C-115 4.1	Total/NA	Solid	8015 NM	
880-19067-24	C-116 4.1	Total/NA	Solid	8015 NM	
880-19067-25	C-117 4.1	Total/NA	Solid	8015 NM	
880-19067-26	C-118 4.1	Total/NA	Solid	8015 NM	
880-19067-27	C-119 4.1	Total/NA	Solid	8015 NM	
880-19067-28	C-120 4.1	Total/NA	Solid	8015 NM	
880-19067-29	C-121 4.1	Total/NA	Solid	8015 NM	
880-19067-30	C-122 4.1	Total/NA	Solid	8015 NM	
880-19067-31	C-123 4.1	Total/NA	Solid	8015 NM	
880-19067-32	C-124 4.1	Total/NA	Solid	8015 NM	
880-19067-33	C-125 4.1	Total/NA	Solid	8015 NM	
880-19067-34	C-126 4.1	Total/NA	Solid	8015 NM	
880-19067-35	C-127 4.1	Total/NA	Solid	8015 NM	
880-19067-36	C-128 4.1	Total/NA	Solid	8015 NM	
880-19067-37	C-129 4.1	Total/NA	Solid	8015 NM	
880-19067-38	C-130 4.1	Total/NA	Solid	8015 NM	
880-19067-39	C-131 4.1	Total/NA	Solid	8015 NM	
880-19067-40	C-132 4.1	Total/NA	Solid	8015 NM	
880-19067-41	C-133 4.1	Total/NA	Solid	8015 NM	
880-19067-42	C-134 4.1	Total/NA	Solid	8015 NM	
880-19067-43	C-135 4.1	Total/NA	Solid	8015 NM	
880-19067-44	C-136 4.1	Total/NA	Solid	8015 NM	
880-19067-45	C-137 4.1	Total/NA	Solid	8015 NM	
880-19067-46	C-82 2'	Total/NA	Solid	8015 NM	
880-19067-47	C-83 2'	Total/NA	Solid	8015 NM	
880-19067-48	C-84 2'	Total/NA	Solid	8015 NM	
880-19067-49	C-85 2'	Total/NA	Solid	8015 NM	
880-19067-50	C-86 2'	Total/NA	Solid	8015 NM	
880-19067-51	C-87 2'	Total/NA	Solid	8015 NM	
880-19067-52	C-88 2'	Total/NA	Solid	8015 NM	
880-19067-53	C-89 2'	Total/NA	Solid	8015 NM	
880-19067-54	C-90 2'	Total/NA	Solid	8015 NM	
880-19067-55	C-91 0-2'	Total/NA	Solid	8015 NM	
880-19067-56	C-92 0-2'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

HPLC/IC

Leach Batch: 34289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-1	C-93 4.1	Soluble	Solid	DI Leach	
880-19067-2	C-94 4.1	Soluble	Solid	DI Leach	
880-19067-3	C-95 4.1	Soluble	Solid	DI Leach	
880-19067-4	C-96 4.1	Soluble	Solid	DI Leach	
880-19067-5	C-97 4.1	Soluble	Solid	DI Leach	
880-19067-6	C-98 4.1	Soluble	Solid	DI Leach	
MB 880-34289/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34289/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34289/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 34290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-7	C-99 4.1	Soluble	Solid	DI Leach	
880-19067-8	C-100 4.1	Soluble	Solid	DI Leach	
880-19067-9	C-101 4.1	Soluble	Solid	DI Leach	
880-19067-10	C-102 4.1	Soluble	Solid	DI Leach	
880-19067-11	C-103 4.1	Soluble	Solid	DI Leach	
880-19067-12	C-104 4.1	Soluble	Solid	DI Leach	
880-19067-13	C-105 4.1	Soluble	Solid	DI Leach	
880-19067-14	C-106 4.1	Soluble	Solid	DI Leach	
880-19067-15	C-107 4.1	Soluble	Solid	DI Leach	
880-19067-16	C-108 4.1	Soluble	Solid	DI Leach	
880-19067-17	C-109 4.1	Soluble	Solid	DI Leach	
880-19067-18	C-110 4.1	Soluble	Solid	DI Leach	
880-19067-19	C-111 4.1	Soluble	Solid	DI Leach	
880-19067-20	C-112 4.1	Soluble	Solid	DI Leach	
880-19067-21	C-113 4.1	Soluble	Solid	DI Leach	
880-19067-22	C-114 4.1	Soluble	Solid	DI Leach	
880-19067-23	C-115 4.1	Soluble	Solid	DI Leach	
880-19067-24	C-116 4.1	Soluble	Solid	DI Leach	
880-19067-25	C-117 4.1	Soluble	Solid	DI Leach	
880-19067-26	C-118 4.1	Soluble	Solid	DI Leach	
MB 880-34290/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34290/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34290/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19067-7 MS	C-99 4.1	Soluble	Solid	DI Leach	
880-19067-7 MSD	C-99 4.1	Soluble	Solid	DI Leach	
880-19067-17 MS	C-109 4.1	Soluble	Solid	DI Leach	
880-19067-17 MSD	C-109 4.1	Soluble	Solid	DI Leach	

Leach Batch: 34291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-27	C-119 4.1	Soluble	Solid	DI Leach	
880-19067-28	C-120 4.1	Soluble	Solid	DI Leach	
880-19067-29	C-121 4.1	Soluble	Solid	DI Leach	
880-19067-30	C-122 4.1	Soluble	Solid	DI Leach	
880-19067-31	C-123 4.1	Soluble	Solid	DI Leach	
880-19067-32	C-124 4.1	Soluble	Solid	DI Leach	
880-19067-33	C-125 4.1	Soluble	Solid	DI Leach	
880-19067-34	C-126 4.1	Soluble	Solid	DI Leach	
880-19067-35	C-127 4.1	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

HPLC/IC (Continued)

Leach Batch: 34291 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-36	C-128 4.1	Soluble	Solid	DI Leach	
880-19067-37	C-129 4.1	Soluble	Solid	DI Leach	
880-19067-38	C-130 4.1	Soluble	Solid	DI Leach	
880-19067-39	C-131 4.1	Soluble	Solid	DI Leach	
880-19067-40	C-132 4.1	Soluble	Solid	DI Leach	
880-19067-41	C-133 4.1	Soluble	Solid	DI Leach	
880-19067-42	C-134 4.1	Soluble	Solid	DI Leach	
880-19067-43	C-135 4.1	Soluble	Solid	DI Leach	
880-19067-44	C-136 4.1	Soluble	Solid	DI Leach	
880-19067-45	C-137 4.1	Soluble	Solid	DI Leach	
MB 880-34291/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34291/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34291/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19067-27 MS	C-119 4.1	Soluble	Solid	DI Leach	
880-19067-27 MSD	C-119 4.1	Soluble	Solid	DI Leach	
880-19067-37 MS	C-129 4.1	Soluble	Solid	DI Leach	
880-19067-37 MSD	C-129 4.1	Soluble	Solid	DI Leach	

Leach Batch: 34308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-46	C-82 2'	Soluble	Solid	DI Leach	
880-19067-47	C-83 2'	Soluble	Solid	DI Leach	
880-19067-48	C-84 2'	Soluble	Solid	DI Leach	
880-19067-49	C-85 2'	Soluble	Solid	DI Leach	
880-19067-50	C-86 2'	Soluble	Solid	DI Leach	
880-19067-51	C-87 2'	Soluble	Solid	DI Leach	
880-19067-52	C-88 2'	Soluble	Solid	DI Leach	
880-19067-53	C-89 2'	Soluble	Solid	DI Leach	
880-19067-54	C-90 2'	Soluble	Solid	DI Leach	
880-19067-55	C-91 0-2'	Soluble	Solid	DI Leach	
880-19067-56	C-92 0-2'	Soluble	Solid	DI Leach	
MB 880-34308/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34308/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34308/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19067-46 MS	C-82 2'	Soluble	Solid	DI Leach	
880-19067-46 MSD	C-82 2'	Soluble	Solid	DI Leach	
880-19067-56 MS	C-92 0-2'	Soluble	Solid	DI Leach	
880-19067-56 MSD	C-92 0-2'	Soluble	Solid	DI Leach	

Analysis Batch: 34571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-1	C-93 4.1	Soluble	Solid	300.0	34289
880-19067-2	C-94 4.1	Soluble	Solid	300.0	34289
880-19067-3	C-95 4.1	Soluble	Solid	300.0	34289
880-19067-4	C-96 4.1	Soluble	Solid	300.0	34289
880-19067-5	C-97 4.1	Soluble	Solid	300.0	34289
880-19067-6	C-98 4.1	Soluble	Solid	300.0	34289
MB 880-34289/1-A	Method Blank	Soluble	Solid	300.0	34289
LCS 880-34289/2-A	Lab Control Sample	Soluble	Solid	300.0	34289
LCSD 880-34289/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34289

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

HPLC/IC

Analysis Batch: 34572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-7	C-99 4.1	Soluble	Solid	300.0	34290
880-19067-8	C-100 4.1	Soluble	Solid	300.0	34290
880-19067-9	C-101 4.1	Soluble	Solid	300.0	34290
880-19067-10	C-102 4.1	Soluble	Solid	300.0	34290
880-19067-11	C-103 4.1	Soluble	Solid	300.0	34290
880-19067-12	C-104 4.1	Soluble	Solid	300.0	34290
880-19067-13	C-105 4.1	Soluble	Solid	300.0	34290
880-19067-14	C-106 4.1	Soluble	Solid	300.0	34290
880-19067-15	C-107 4.1	Soluble	Solid	300.0	34290
880-19067-16	C-108 4.1	Soluble	Solid	300.0	34290
880-19067-17	C-109 4.1	Soluble	Solid	300.0	34290
880-19067-18	C-110 4.1	Soluble	Solid	300.0	34290
880-19067-19	C-111 4.1	Soluble	Solid	300.0	34290
880-19067-20	C-112 4.1	Soluble	Solid	300.0	34290
880-19067-21	C-113 4.1	Soluble	Solid	300.0	34290
880-19067-22	C-114 4.1	Soluble	Solid	300.0	34290
880-19067-23	C-115 4.1	Soluble	Solid	300.0	34290
880-19067-24	C-116 4.1	Soluble	Solid	300.0	34290
880-19067-25	C-117 4.1	Soluble	Solid	300.0	34290
880-19067-26	C-118 4.1	Soluble	Solid	300.0	34290
MB 880-34290/1-A	Method Blank	Soluble	Solid	300.0	34290
LCS 880-34290/2-A	Lab Control Sample	Soluble	Solid	300.0	34290
LCSD 880-34290/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34290
880-19067-7 MS	C-99 4.1	Soluble	Solid	300.0	34290
880-19067-7 MSD	C-99 4.1	Soluble	Solid	300.0	34290
880-19067-17 MS	C-109 4.1	Soluble	Solid	300.0	34290
880-19067-17 MSD	C-109 4.1	Soluble	Solid	300.0	34290

Analysis Batch: 34574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-27	C-119 4.1	Soluble	Solid	300.0	34291
880-19067-28	C-120 4.1	Soluble	Solid	300.0	34291
880-19067-29	C-121 4.1	Soluble	Solid	300.0	34291
880-19067-30	C-122 4.1	Soluble	Solid	300.0	34291
880-19067-31	C-123 4.1	Soluble	Solid	300.0	34291
880-19067-32	C-124 4.1	Soluble	Solid	300.0	34291
880-19067-33	C-125 4.1	Soluble	Solid	300.0	34291
880-19067-34	C-126 4.1	Soluble	Solid	300.0	34291
880-19067-35	C-127 4.1	Soluble	Solid	300.0	34291
880-19067-36	C-128 4.1	Soluble	Solid	300.0	34291
880-19067-37	C-129 4.1	Soluble	Solid	300.0	34291
880-19067-38	C-130 4.1	Soluble	Solid	300.0	34291
880-19067-39	C-131 4.1	Soluble	Solid	300.0	34291
880-19067-40	C-132 4.1	Soluble	Solid	300.0	34291
880-19067-41	C-133 4.1	Soluble	Solid	300.0	34291
880-19067-42	C-134 4.1	Soluble	Solid	300.0	34291
880-19067-43	C-135 4.1	Soluble	Solid	300.0	34291
880-19067-44	C-136 4.1	Soluble	Solid	300.0	34291
880-19067-45	C-137 4.1	Soluble	Solid	300.0	34291
MB 880-34291/1-A	Method Blank	Soluble	Solid	300.0	34291
LCS 880-34291/2-A	Lab Control Sample	Soluble	Solid	300.0	34291

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

HPLC/IC (Continued)

Analysis Batch: 34574 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-34291/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34291
880-19067-27 MS	C-119 4.1	Soluble	Solid	300.0	34291
880-19067-27 MSD	C-119 4.1	Soluble	Solid	300.0	34291
880-19067-37 MS	C-129 4.1	Soluble	Solid	300.0	34291
880-19067-37 MSD	C-129 4.1	Soluble	Solid	300.0	34291

Analysis Batch: 34575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19067-46	C-82 2'	Soluble	Solid	300.0	34308
880-19067-47	C-83 2'	Soluble	Solid	300.0	34308
880-19067-48	C-84 2'	Soluble	Solid	300.0	34308
880-19067-49	C-85 2'	Soluble	Solid	300.0	34308
880-19067-50	C-86 2'	Soluble	Solid	300.0	34308
880-19067-51	C-87 2'	Soluble	Solid	300.0	34308
880-19067-52	C-88 2'	Soluble	Solid	300.0	34308
880-19067-53	C-89 2'	Soluble	Solid	300.0	34308
880-19067-54	C-90 2'	Soluble	Solid	300.0	34308
880-19067-55	C-91 0-2'	Soluble	Solid	300.0	34308
880-19067-56	C-92 0-2'	Soluble	Solid	300.0	34308
MB 880-34308/1-A	Method Blank	Soluble	Solid	300.0	34308
LCS 880-34308/2-A	Lab Control Sample	Soluble	Solid	300.0	34308
LCSD 880-34308/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34308
880-19067-46 MS	C-82 2'	Soluble	Solid	300.0	34308
880-19067-46 MSD	C-82 2'	Soluble	Solid	300.0	34308
880-19067-56 MS	C-92 0-2'	Soluble	Solid	300.0	34308
880-19067-56 MSD	C-92 0-2'	Soluble	Solid	300.0	34308

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-93 4.1

Date Collected: 09/09/22 12:00
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 17:15	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 10:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34289	09/12/22 11:52	KS	EET MID
Soluble	Analysis	300.0		1			34571	09/16/22 08:23	CH	EET MID

Client Sample ID: C-94 4.1

Date Collected: 09/09/22 12:03
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 17:36	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 11:51	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34289	09/12/22 11:52	KS	EET MID
Soluble	Analysis	300.0		1			34571	09/16/22 08:28	CH	EET MID

Client Sample ID: C-95 4.1

Date Collected: 09/09/22 12:06
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 17:56	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 12:12	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34289	09/12/22 11:52	KS	EET MID
Soluble	Analysis	300.0		1			34571	09/15/22 21:07	CH	EET MID

Client Sample ID: C-96 4.1

Date Collected: 09/09/22 12:09
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 18:16	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-96 4.1

Date Collected: 09/09/22 12:09
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-4

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			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 12:34	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34289	09/12/22 11:52	KS	EET MID
Soluble	Analysis	300.0		1			34571	09/16/22 08:33	CH	EET MID

Client Sample ID: C-97 4.1

Date Collected: 09/09/22 12:12
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 18:37	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 12:56	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34289	09/12/22 11:52	KS	EET MID
Soluble	Analysis	300.0		1			34571	09/15/22 21:13	CH	EET MID

Client Sample ID: C-98 4.1

Date Collected: 09/09/22 12:15
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 18:57	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 13:17	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34289	09/12/22 11:52	KS	EET MID
Soluble	Analysis	300.0		1			34571	09/15/22 21:18	CH	EET MID

Client Sample ID: C-99 4.1

Date Collected: 09/09/22 12:18
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 19:18	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 13:39	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-99 4.1

Date Collected: 09/09/22 12:18
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		5			34572	09/16/22 00:47	CH	EET MID

Client Sample ID: C-100 4.1

Date Collected: 09/09/22 12:21
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 19:38	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 14:00	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 01:02	CH	EET MID

Client Sample ID: C-101 4.1

Date Collected: 09/09/22 12:25
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 19:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 14:22	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 01:06	CH	EET MID

Client Sample ID: C-102 4.1

Date Collected: 09/09/22 12:30
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 20:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 14:43	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 01:11	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-103 4.1

Date Collected: 09/09/22 12:33
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 22:09	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 15:27	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 01:16	CH	EET MID

Client Sample ID: C-104 4.1

Date Collected: 09/09/22 12:36
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 22:30	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 15:48	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 01:31	CH	EET MID

Client Sample ID: C-105 4.1

Date Collected: 09/09/22 12:39
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 22:50	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 16:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 01:35	CH	EET MID

Client Sample ID: C-106 4.1

Date Collected: 09/09/22 12:40
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 23:11	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-106 4.1

Date Collected: 09/09/22 12:40
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 16:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 01:40	CH	EET MID

Client Sample ID: C-107 4.1

Date Collected: 09/09/22 12:45
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 23:31	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 16:53	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 01:45	CH	EET MID

Client Sample ID: C-108 4.1

Date Collected: 09/09/22 12:48
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/22/22 23:52	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 17:14	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 08:48	CH	EET MID

Client Sample ID: C-109 4.1

Date Collected: 09/09/22 12:51
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34694	09/16/22 16:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35150	09/23/22 00:12	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 17:35	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-109 4.1

Date Collected: 09/09/22 12:51
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 01:51	CH	EET MID

Client Sample ID: C-110 4.1

Date Collected: 09/09/22 12:55
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	35157	09/22/22 10:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35151	09/22/22 19:27	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 17:57	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		5			34572	09/16/22 02:06	CH	EET MID

Client Sample ID: C-111 4.1

Date Collected: 09/09/22 12:59
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35157	09/22/22 10:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35151	09/22/22 20:51	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 18:18	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 02:11	CH	EET MID

Client Sample ID: C-112 4.1

Date Collected: 09/09/22 13:02
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35157	09/22/22 10:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35151	09/22/22 21:11	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34343	09/13/22 08:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34332	09/13/22 18:40	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		5			34572	09/16/22 02:25	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-113 4.1

Date Collected: 09/09/22 13:05
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 22:38	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 10:46	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 02:30	CH	EET MID

Client Sample ID: C-114 4.1

Date Collected: 09/09/22 13:08
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 22:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 11:51	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 02:35	CH	EET MID

Client Sample ID: C-115 4.1

Date Collected: 09/09/22 13:11
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 23:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 12:12	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		5			34572	09/16/22 08:53	CH	EET MID

Client Sample ID: C-116 4.1

Date Collected: 09/09/22 13:14
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 23:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-116 4.1

Date Collected: 09/09/22 13:14
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 12:34	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		5			34572	09/16/22 02:41	CH	EET MID

Client Sample ID: C-117 4.1

Date Collected: 09/09/22 13:17
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 00:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 12:56	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		1			34572	09/16/22 02:46	CH	EET MID

Client Sample ID: C-118 4.1

Date Collected: 09/09/22 13:20
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 00:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 13:17	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34290	09/12/22 11:54	KS	EET MID
Soluble	Analysis	300.0		5			34572	09/16/22 02:51	CH	EET MID

Client Sample ID: C-119 4.1

Date Collected: 09/09/22 13:22
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 00:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 13:39	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-119 4.1

Date Collected: 09/09/22 13:22
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			34574	09/15/22 13:46	CH	EET MID

Client Sample ID: C-120 4.1

Date Collected: 09/09/22 13:24
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 01:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 14:00	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		5			34574	09/15/22 14:08	CH	EET MID

Client Sample ID: C-121 4.1

Date Collected: 09/09/22 13:25
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 01:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 14:22	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			34574	09/15/22 14:15	CH	EET MID

Client Sample ID: C-122 4.1

Date Collected: 09/09/22 13:28
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 01:43	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 14:43	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		5			34574	09/15/22 14:22	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-123 4.1

Date Collected: 09/09/22 13:30
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 03:05	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 15:27	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			34574	09/15/22 14:29	CH	EET MID

Client Sample ID: C-124 4.1

Date Collected: 09/09/22 13:31
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-32

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 03:26	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 15:48	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			34574	09/15/22 14:52	CH	EET MID

Client Sample ID: C-125 4.1

Date Collected: 09/09/22 13:35
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-33

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 03:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 16:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			34574	09/15/22 14:59	CH	EET MID

Client Sample ID: C-126 4.1

Date Collected: 09/09/22 13:38
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-34

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 04:07	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-126 4.1

Date Collected: 09/09/22 13:38
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-34

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			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 16:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		5			34574	09/15/22 15:07	CH	EET MID

Client Sample ID: C-127 4.1

Date Collected: 09/09/22 13:40
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 04:27	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 16:53	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			34574	09/15/22 15:14	CH	EET MID

Client Sample ID: C-128 4.1

Date Collected: 09/09/22 13:42
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-36

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 04:48	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 17:14	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			34574	09/15/22 15:22	CH	EET MID

Client Sample ID: C-129 4.1

Date Collected: 09/09/22 13:44
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-37

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 05:08	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 17:35	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-129 4.1

Date Collected: 09/09/22 13:44
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-37

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			4.98 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			34574	09/15/22 15:29	CH	EET MID

Client Sample ID: C-130 4.1

Date Collected: 09/09/22 13:47
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-38

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 05:29	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 17:57	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		5			34574	09/15/22 15:51	CH	EET MID

Client Sample ID: C-131 4.1

Date Collected: 09/09/22 13:48
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 05:49	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 18:18	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		5			34574	09/15/22 15:59	CH	EET MID

Client Sample ID: C-132 4.1

Date Collected: 09/09/22 13:51
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34695	09/16/22 16:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/23/22 06:10	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34344	09/13/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 18:40	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			34574	09/15/22 16:21	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-133 4.1

Date Collected: 09/09/22 13:53
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-41

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	34852	09/19/22 14:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35059	09/22/22 05:05	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 12:52	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		5			34574	09/15/22 16:29	CH	EET MID

Client Sample ID: C-134 4.1

Date Collected: 09/09/22 13:55
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-42

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35058	09/21/22 11:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35059	09/21/22 22:44	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 13:13	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			34574	09/15/22 16:36	CH	EET MID

Client Sample ID: C-135 4.1

Date Collected: 09/09/22 13:57
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-43

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35058	09/21/22 11:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35059	09/21/22 23:04	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 13:35	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			34574	09/15/22 16:44	CH	EET MID

Client Sample ID: C-136 4.1

Date Collected: 09/09/22 13:58
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-44

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35058	09/21/22 11:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35059	09/21/22 23:25	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-136 4.1

Date Collected: 09/09/22 13:58
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-44

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			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 13:56	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			34574	09/15/22 16:51	CH	EET MID

Client Sample ID: C-137 4.1

Date Collected: 09/09/22 14:00
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35058	09/21/22 11:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35059	09/21/22 23:45	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 14:16	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	34291	09/12/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			34574	09/15/22 16:59	CH	EET MID

Client Sample ID: C-82 2'

Date Collected: 09/07/22 17:00
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-46

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34678	09/16/22 13:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34891	09/21/22 03:50	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 14:37	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	34308	09/12/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1			34575	09/15/22 17:59	CH	EET MID

Client Sample ID: C-83 2'

Date Collected: 09/07/22 17:03
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-47

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	34678	09/16/22 13:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34891	09/21/22 04:10	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 15:20	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-83 2'
Date Collected: 09/07/22 17:03
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-47
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			4.98 g	50 mL	34308	09/12/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1			34575	09/15/22 18:21	CH	EET MID

Client Sample ID: C-84 2'
Date Collected: 09/07/22 17:05
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	34678	09/16/22 13:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34891	09/21/22 04:31	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 15:41	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34308	09/12/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1			34575	09/15/22 18:29	CH	EET MID

Client Sample ID: C-85 2'
Date Collected: 09/07/22 17:09
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	34678	09/16/22 13:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34891	09/21/22 04:51	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 16:02	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34308	09/12/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1			34575	09/15/22 18:36	CH	EET MID

Client Sample ID: C-86 2'
Date Collected: 09/07/22 17:11
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-50
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	34678	09/16/22 13:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34891	09/21/22 05:12	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 16:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34308	09/12/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1			34575	09/15/22 18:43	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-87 2'
Date Collected: 09/07/22 17:15
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-51
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	34690	09/16/22 16:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34832	09/20/22 05:29	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 16:43	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34308	09/12/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1			34575	09/15/22 19:06	CH	EET MID

Client Sample ID: C-88 2'
Date Collected: 09/07/22 17:18
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-52
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	34690	09/16/22 16:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34832	09/20/22 05:49	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 17:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34308	09/12/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1			34575	09/15/22 19:14	CH	EET MID

Client Sample ID: C-89 2'
Date Collected: 09/07/22 17:22
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34690	09/16/22 16:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34832	09/20/22 06:10	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 17:25	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34308	09/12/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1			34575	09/15/22 19:21	CH	EET MID

Client Sample ID: C-90 2'
Date Collected: 09/07/22 17:25
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34690	09/16/22 16:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34832	09/20/22 06:30	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Client Sample ID: C-90 2'
Date Collected: 09/07/22 17:25
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-54
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			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 17:46	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34308	09/12/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1			34575	09/15/22 19:28	CH	EET MID

Client Sample ID: C-91 0-2'
Date Collected: 09/07/22 17:30
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-55
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	34690	09/16/22 16:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34832	09/20/22 06:51	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 18:07	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34308	09/12/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1			34575	09/15/22 19:36	CH	EET MID

Client Sample ID: C-92 0-2'
Date Collected: 09/07/22 17:32
Date Received: 09/12/22 09:45

Lab Sample ID: 880-19067-56
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	34690	09/16/22 16:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34832	09/20/22 07:11	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34921	09/20/22 09:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34460	09/14/22 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34342	09/13/22 08:25	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34336	09/13/22 18:27	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34308	09/12/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1			34575	09/15/22 19:43	CH	EET MID

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-19067-1
Project/Site: Limestone 1H SDG: 21-0100-24

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	T104704400-22-24	06-30-23

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: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-19067-1	C-93 4.1	Solid	09/09/22 12:00	09/12/22 09:45
880-19067-2	C-94 4.1	Solid	09/09/22 12:03	09/12/22 09:45
880-19067-3	C-95 4.1	Solid	09/09/22 12:06	09/12/22 09:45
880-19067-4	C-96 4.1	Solid	09/09/22 12:09	09/12/22 09:45
880-19067-5	C-97 4.1	Solid	09/09/22 12:12	09/12/22 09:45
880-19067-6	C-98 4.1	Solid	09/09/22 12:15	09/12/22 09:45
880-19067-7	C-99 4.1	Solid	09/09/22 12:18	09/12/22 09:45
880-19067-8	C-100 4.1	Solid	09/09/22 12:21	09/12/22 09:45
880-19067-9	C-101 4.1	Solid	09/09/22 12:25	09/12/22 09:45
880-19067-10	C-102 4.1	Solid	09/09/22 12:30	09/12/22 09:45
880-19067-11	C-103 4.1	Solid	09/09/22 12:33	09/12/22 09:45
880-19067-12	C-104 4.1	Solid	09/09/22 12:36	09/12/22 09:45
880-19067-13	C-105 4.1	Solid	09/09/22 12:39	09/12/22 09:45
880-19067-14	C-106 4.1	Solid	09/09/22 12:40	09/12/22 09:45
880-19067-15	C-107 4.1	Solid	09/09/22 12:45	09/12/22 09:45
880-19067-16	C-108 4.1	Solid	09/09/22 12:48	09/12/22 09:45
880-19067-17	C-109 4.1	Solid	09/09/22 12:51	09/12/22 09:45
880-19067-18	C-110 4.1	Solid	09/09/22 12:55	09/12/22 09:45
880-19067-19	C-111 4.1	Solid	09/09/22 12:59	09/12/22 09:45
880-19067-20	C-112 4.1	Solid	09/09/22 13:02	09/12/22 09:45
880-19067-21	C-113 4.1	Solid	09/09/22 13:05	09/12/22 09:45
880-19067-22	C-114 4.1	Solid	09/09/22 13:08	09/12/22 09:45
880-19067-23	C-115 4.1	Solid	09/09/22 13:11	09/12/22 09:45
880-19067-24	C-116 4.1	Solid	09/09/22 13:14	09/12/22 09:45
880-19067-25	C-117 4.1	Solid	09/09/22 13:17	09/12/22 09:45
880-19067-26	C-118 4.1	Solid	09/09/22 13:20	09/12/22 09:45
880-19067-27	C-119 4.1	Solid	09/09/22 13:22	09/12/22 09:45
880-19067-28	C-120 4.1	Solid	09/09/22 13:24	09/12/22 09:45
880-19067-29	C-121 4.1	Solid	09/09/22 13:25	09/12/22 09:45
880-19067-30	C-122 4.1	Solid	09/09/22 13:28	09/12/22 09:45
880-19067-31	C-123 4.1	Solid	09/09/22 13:30	09/12/22 09:45
880-19067-32	C-124 4.1	Solid	09/09/22 13:31	09/12/22 09:45
880-19067-33	C-125 4.1	Solid	09/09/22 13:35	09/12/22 09:45
880-19067-34	C-126 4.1	Solid	09/09/22 13:38	09/12/22 09:45
880-19067-35	C-127 4.1	Solid	09/09/22 13:40	09/12/22 09:45
880-19067-36	C-128 4.1	Solid	09/09/22 13:42	09/12/22 09:45
880-19067-37	C-129 4.1	Solid	09/09/22 13:44	09/12/22 09:45
880-19067-38	C-130 4.1	Solid	09/09/22 13:47	09/12/22 09:45
880-19067-39	C-131 4.1	Solid	09/09/22 13:48	09/12/22 09:45
880-19067-40	C-132 4.1	Solid	09/09/22 13:51	09/12/22 09:45
880-19067-41	C-133 4.1	Solid	09/09/22 13:53	09/12/22 09:45
880-19067-42	C-134 4.1	Solid	09/09/22 13:55	09/12/22 09:45
880-19067-43	C-135 4.1	Solid	09/09/22 13:57	09/12/22 09:45
880-19067-44	C-136 4.1	Solid	09/09/22 13:58	09/12/22 09:45
880-19067-45	C-137 4.1	Solid	09/09/22 14:00	09/12/22 09:45
880-19067-46	C-82 2'	Solid	09/07/22 17:00	09/12/22 09:45
880-19067-47	C-83 2'	Solid	09/07/22 17:03	09/12/22 09:45
880-19067-48	C-84 2'	Solid	09/07/22 17:05	09/12/22 09:45
880-19067-49	C-85 2'	Solid	09/07/22 17:09	09/12/22 09:45
880-19067-50	C-86 2'	Solid	09/07/22 17:11	09/12/22 09:45
880-19067-51	C-87 2'	Solid	09/07/22 17:15	09/12/22 09:45
880-19067-52	C-88 2'	Solid	09/07/22 17:18	09/12/22 09:45
880-19067-53	C-89 2'	Solid	09/07/22 17:22	09/12/22 09:45
880-19067-54	C-90 2'	Solid	09/07/22 17:25	09/12/22 09:45
880-19067-55	C-91 0-2'	Solid	09/07/22 17:30	09/12/22 09:45

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19067-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-19067-56	C-92 0-2'	Solid	09/07/22 17:32	09/12/22 09:45

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No. 2713

19067 CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

DATE: 9/12/2022 PAGE 1 OF 3

PO# _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT #: 21-0100-24 COLLECTOR: RN

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST / NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-93, 4.1		9/9/22	1200	S	1				X		X		X	X	X																										X			
C-94, 4.1			1203																																									
C-95, 4.1			1206																																									
C-96, 4.1			1209																																									
C-97, 4.1			1212																																									
C-98, 4.1			1215																																									
C-99, 4.1			1218																																									
C-100, 4.1			1221																																									
C-101, 4.1			1225																																									
C-102, 4.1			1230																																									
C-103, 4.1			1233																																									
C-104, 4.1			1236																																									
C-105, 4.1			1239																																									
C-106, 4.1			1240																																									
C-107, 4.1			1245																																									
TOTAL																																											

880-19067 Chain of Custody

RELINQUISHED BY (Signature) DATE/TIME 9/12/22 0945 RECEIVED BY (Signature)

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 3|5 THERM# IR8 20
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

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No. 2714

19067 CHAIN-OF-CUSTODY

9/26/2022

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 9/12/2022 PAGE 2 OF 3

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME Limestone 1 #

LAI PROJECT # 21-0100-24 COLLECTOR: RN

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-108, 4.1		9/9/22	1248	S	1				X		X			X	X	X														X	
C-109, 4.1			1251																												
C-110, 4.1			1255																												
C-111, 4.1			1259																												
C-112, 4.1			1302																												
C-113, 4.1			1305																												
C-114, 4.1			1308																												
C-115, 4.1			1311																												
C-116, 4.1			1314																												
C-117, 4.1			1317																												
C-118, 4.1			1320																												
C-119, 4.1			1322																												
C-120, 4.1			1324																												
C-121, 4.1			1325																												
C-122, 4.1			1328																												
TOTAL																															

RELINQUISHED BY (Signature) DATE/TIME 9/12/22 0945 RECEIVED BY (Signature)

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 3.5 THERM# IR8 -20
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

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No. 2715

19067 CHAIN-OF-CUSTODY

9/26/2022

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 9/12/2022 PAGE 3 OF 3

PO#: LAB WORK ORDER#

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT # 21-0100-14 COLLECTOR: RN

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST/NM

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

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒	MTBE ☐	TPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-123, 4.1		9/9/22	1330	S	1				X		X		X	X	X	X																		
C-124, 4.1		"	1331	"	"				"		"		"	"	"	"																		
C-125, 4.1		"	1335	"	"				"		"		"	"	"	"																		
C-126, 4.1		"	1338	"	"				"		"		"	"	"	"																		
C-127, 4.1		"	1340	"	"				"		"		"	"	"	"																		
C-128, 4.1		"	1342	"	"				"		"		"	"	"	"																		
C-129, 0-4.1		"	1344	"	"				"		"		"	"	"	"																		
C-130, 0-4.1		"	1347	"	"				"		"		"	"	"	"																		
C-131, 0-4.1		"	1348	"	"				"		"		"	"	"	"																		
C-132, 0-4.1		"	1351	"	"				"		"		"	"	"	"																		
C-133, 0-4.1		"	1353	"	"				"		"		"	"	"	"																		
C-134, 0-4.1		"	1355	"	"				"		"		"	"	"	"																		
C-135, 0-4.1		"	1357	"	"				"		"		"	"	"	"																		
C-136, 0-4.1		"	1358	"	"				"		"		"	"	"	"																		
C-137, 0-4.1		"	1400	"	"				"		"		"	"	"	"																		
TOTAL																																		

Loc: 880
19067

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	9/12/22 0945	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 3.1.5 THERM# IR9.20
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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19067 No. 2722

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 9/12/2022 PAGE 4 OF 4

PO#: LAB WORK ORDER#

PROJECT LOCATION OR NAME Limestone 1H

LAI PROJECT #. 21-0100-24 COLLECTOR: PM

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST/NM

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

ANALYSES: BTEX 4 ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 4 ☐ | DIESEL - MOD 8015 4 ☐ | OIL - MOD 8015 4 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE 4 ☐ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	TRPH	GASOLINE	DIESEL	OIL	VOC	SVOC	8081	8082	TCLP-M	TCLP-P	TOTAL	LEAD	RCI	TDS	pH	EXPLOSIVES	CHLORIDE	FIELD NOTES
C-82, 2'		9/7/22	1700	S	1				X		X	X	X	X	X													X	
C-83, 2'			1703																										
C-84, 2'			1705																										
C-85, 2'			1709																										
C-86, 2'			1711																										
C-87, 2'			1715																										
C-88, 2'			1718																										
C-89, 2'			1722																										
C-90, 2'			1725																										
C-91, 0-2'			1730																										
C-92, 0-2'			1732																										
TOTAL																													

RELINQUISHED BY (Signature) DATE/TIME 9/12/22 0915 RECEIVED BY (Signature)

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 3.5 THERM# IR8.20
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 4/10/2023 5:31:08 PM
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Released to Imaging: 5/12/2023 11:29:26 AM
9/26/2022

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-19067-1
SDG Number: 21-0100-24

Login Number: 19067
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.	False	Received extra samples not listed on COC.
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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-19356-1
Laboratory Sample Delivery Group: 21-0100-24
Client Project/Site: Limestone 1H

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

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
9/30/2022 4:51:31 PM

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

LINKS
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Have a Question? Ask The Expert
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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.

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*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.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low 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.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.
¤	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)

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Job ID: 880-19356-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-19356-1

Receipt
The samples were received on 9/19/2022 9:50 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 1.5º C.

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-35203 and analytical batch 880-35330 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-35203/1-A) and (LCSD 880-35203/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-2963-A-21-E). 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-138,4.1 (880-19356-1), C-139,4.1 (880-19356-2) and C-140,4.1 (880-19356-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-35204 and analytical batch 880-35466 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-35466 recovered above the upper control limit for m,p-Xylenes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-35466/2), (LCS 880-35204/1-A) and (LCSD 880-35204/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-19356-A-1-K MS) and (880-19356-A-1-L MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-35204 and analytical batch 880-35466 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-138,4.1 (880-19356-1), C-139,4.1 (880-19356-2), C-140,4.1 (880-19356-3), C-141,4.1 (880-19356-4), C-142,4.1 (880-19356-5), C-143,4.1 (880-19356-6), C-144,4.1 (880-19356-7), C-145,4.1 (880-19356-8), C-146,4.1 (880-19356-9) and C-147,4.1 (880-19356-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35205 and analytical batch 880-35468 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 CCV was biased low for ethylbenzene, m-p xylene, o-xylene, and toluene. Another CCV was analyzed and acceptable within the 12 hour window, therefore, the data was qualified and reported.
(CCV 880-35468/51)

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-35466 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-35466/20).

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-35209

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

Job ID: 880-19356-1 (Continued)

Laboratory: Eurofins Midland (Continued)

and analytical batch 880-35466 recovered outside control limits for the following analytes: Benzene, Ethylbenzene, m,p-Xylenes and o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35209 and analytical batch 880-35466 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCSD) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-148,4.1 (880-19356-11), C-149,4.1 (880-19356-12), C-150,4.1 (880-19356-13), C-151,4.1 (880-19356-14), C-152,4.1 (880-19356-15), C-153,0-4.1 (880-19356-16), C-154,4.1 (880-19356-17), C-155,0-4.1 (880-19356-18), C-156,4.1 (880-19356-19), C-157,0-4.1 (880-19356-20), C-199,4.1 (880-19356-51), C-200,4.1 (880-19356-52), C-201,4.1 (880-19356-53), C-202,0-4.1 (880-19356-54), C-206,1.5 (880-19356-58), C-207,1.5 (880-19356-59), C-208,1.5 (880-19356-60), (LCS 880-35209/1-A), (LCSD 880-35209/2-A) and (MB 880-35209/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-35647 recovered under the lower control limit for Toluene. Another CCV was analyzed and acceptable within 12 hours and the internal standard was acceptable during this time; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35605 and analytical batch 880-35647 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: Surrogate recovery for the following samples were outside control limits: C-220,3.5 (880-19356-72). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-229,0-3.5 (880-19356-81). 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 880-34950 and analytical batch 880-34883 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-34927 and analytical batch 880-35005 was outside control limits. Sample non-homogeneity is suspected.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (890-2988-A-61-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-34929 and analytical batch 880-35007 was outside control limits. Sample non-homogeneity is suspected.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-35120/3). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (880-19356-A-21-C 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.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34986 and

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

Job ID: 880-19356-1 (Continued)

Laboratory: Eurofins Midland (Continued)

880-34986 and analytical batch 880-35185 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.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34988 and 880-34988 and analytical batch 880-35186 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.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34990 and analytical batch 880-35189 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: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-138,4.1

Date Collected: 09/14/22 09:02
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:10	09/26/22 08:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:10	09/26/22 08:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:10	09/26/22 08:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/22/22 16:10	09/26/22 08:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:10	09/26/22 08:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/22/22 16:10	09/26/22 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*09/22/22 16:10*	*09/26/22 08:48*	*1*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*09/22/22 16:10*	*09/26/22 08:48*	*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			09/26/22 16:44	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			09/21/22 11:48	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 F2	49.9		mg/Kg		09/20/22 10:00	09/21/22 11:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 10:00	09/21/22 11:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 10:00	09/21/22 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*09/20/22 10:00*	*09/21/22 11:07*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*09/20/22 10:00*	*09/21/22 11:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**767**	**F1**	4.98		mg/Kg			09/23/22 01:38	1

Client Sample ID: C-139,4.1

Date Collected: 09/14/22 09:04
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:10	09/26/22 09:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:10	09/26/22 09:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:10	09/26/22 09:14	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/22/22 16:10	09/26/22 09:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:10	09/26/22 09:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/22/22 16:10	09/26/22 09:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*09/22/22 16:10*	*09/26/22 09:14*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*09/22/22 16:10*	*09/26/22 09:14*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-139,4.1

Date Collected: 09/14/22 09:04
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-2

Matrix: Solid

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 12:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 10:01	09/21/22 12:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 10:01	09/21/22 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*09/20/22 10:01*	*09/21/22 12:13*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*09/20/22 10:01*	*09/21/22 12:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1030**		4.96		mg/Kg			09/23/22 01:52	1

Client Sample ID: C-140,4.1

Date Collected: 09/14/22 09:06
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:10	09/26/22 09:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:10	09/26/22 09:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:10	09/26/22 09:41	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/22/22 16:10	09/26/22 09:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:10	09/26/22 09:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/22/22 16:10	09/26/22 09:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*09/22/22 16:10*	*09/26/22 09:41*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*09/22/22 16:10*	*09/26/22 09:41*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 12:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 12:34	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-140,4.1

Lab Sample ID: 880-19356-3
Matrix: Solid
Date Collected: 09/14/22 09:06
Date Received: 09/19/22 09:50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/20/22 10:01*	*09/21/22 12:34*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*09/20/22 10:01*	*09/21/22 12:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**717**		4.99		mg/Kg			09/23/22 01:57	1

Client Sample ID: C-141,4.1

Lab Sample ID: 880-19356-4
Matrix: Solid
Date Collected: 09/14/22 09:08
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 13:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 13:58	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 13:58	1
m,p-Xylenes	<0.00401	U *+	0.00401		mg/Kg		09/22/22 16:31	09/27/22 13:58	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 13:58	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		09/22/22 16:31	09/27/22 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*159*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 13:58*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/22/22 16:31*	*09/27/22 13:58*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 12:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 10:01	09/21/22 12:56	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 10:01	09/21/22 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*09/20/22 10:01*	*09/21/22 12:56*	*1*
o-Terphenyl (Surr)	*76*		*70 - 130*	*09/20/22 10:01*	*09/21/22 12:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**547**		4.97		mg/Kg			09/23/22 02:02	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-142,4.1

Date Collected: 09/14/22 09:10
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 14:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 14:19	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 14:19	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		09/22/22 16:31	09/27/22 14:19	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 14:19	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		09/22/22 16:31	09/27/22 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*156*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 14:19*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/22/22 16:31*	*09/27/22 14:19*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 13:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 13:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*09/20/22 10:01*	*09/21/22 13:18*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*09/20/22 10:01*	*09/21/22 13:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**311**		4.99		mg/Kg			09/23/22 02:07	1

Client Sample ID: C-143,4.1

Date Collected: 09/14/22 09:12
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 14:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 14:39	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 14:39	1
m,p-Xylenes	<0.00401	U *+	0.00401		mg/Kg		09/22/22 16:31	09/27/22 14:39	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 14:39	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		09/22/22 16:31	09/27/22 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 14:39*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/22/22 16:31*	*09/27/22 14:39*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-143,4.1

Date Collected: 09/14/22 09:12
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-6

Matrix: Solid

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 13:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*09/20/22 10:01*	*09/21/22 13:39*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*09/20/22 10:01*	*09/21/22 13:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1510**		25.3		mg/Kg			09/23/22 02:21	5

Client Sample ID: C-144,4.1

Date Collected: 09/14/22 09:14
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-7

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:31	09/27/22 15:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:31	09/27/22 15:00	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/22/22 16:31	09/27/22 15:00	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/22/22 16:31	09/27/22 15:00	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/22/22 16:31	09/27/22 15:00	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/22/22 16:31	09/27/22 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*155*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 15:00*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*09/22/22 16:31*	*09/27/22 15:00*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 14:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/20/22 10:01	09/21/22 14:01	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-144,4.1

Lab Sample ID: 880-19356-7
Matrix: Solid
Date Collected: 09/14/22 09:14
Date Received: 09/19/22 09:50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/20/22 10:01	09/21/22 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*09/20/22 10:01*	*09/21/22 14:01*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*09/20/22 10:01*	*09/21/22 14:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**248**		4.98		mg/Kg			09/23/22 02:26	1

Client Sample ID: C-145,4.1

Lab Sample ID: 880-19356-8
Matrix: Solid
Date Collected: 09/14/22 09:16
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:31	09/27/22 15:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:31	09/27/22 15:21	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/22/22 16:31	09/27/22 15:21	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/22/22 16:31	09/27/22 15:21	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/22/22 16:31	09/27/22 15:21	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/22/22 16:31	09/27/22 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*194*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 15:21*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*09/22/22 16:31*	*09/27/22 15:21*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 14:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 10:01	09/21/22 14:23	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 10:01	09/21/22 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/20/22 10:01*	*09/21/22 14:23*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*09/20/22 10:01*	*09/21/22 14:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**179**		5.04		mg/Kg			09/23/22 02:31	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-146,4.1

Date Collected: 09/14/22 09:18
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-9

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/22/22 16:31	09/27/22 15:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/22/22 16:31	09/27/22 15:41	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		09/22/22 16:31	09/27/22 15:41	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		09/22/22 16:31	09/27/22 15:41	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		09/22/22 16:31	09/27/22 15:41	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		09/22/22 16:31	09/27/22 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*184*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 15:41*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*09/22/22 16:31*	*09/27/22 15:41*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 14:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 14:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*09/20/22 10:01*	*09/21/22 14:44*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*09/20/22 10:01*	*09/21/22 14:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**337**		4.98		mg/Kg			09/23/22 02:36	1

Client Sample ID: C-147,4.1

Date Collected: 09/14/22 09:20
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 16:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 16:02	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 16:02	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		09/22/22 16:31	09/27/22 16:02	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 16:02	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		09/22/22 16:31	09/27/22 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*178*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 16:02*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*09/22/22 16:31*	*09/27/22 16:02*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-147,4.1

Date Collected: 09/14/22 09:20
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-10

Matrix: Solid

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 15:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 10:01	09/21/22 15:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 10:01	09/21/22 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*09/20/22 10:01*	*09/21/22 15:05*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*09/20/22 10:01*	*09/21/22 15:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**423**		4.99		mg/Kg			09/23/22 02:41	1

Client Sample ID: C-148,4.1

Date Collected: 09/14/22 09:22
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-11

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:31	09/27/22 20:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:31	09/27/22 20:18	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/22/22 16:31	09/27/22 20:18	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/22/22 16:31	09/27/22 20:18	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/22/22 16:31	09/27/22 20:18	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/22/22 16:31	09/27/22 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 20:18*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/22/22 16:31*	*09/27/22 20:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 15:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/20/22 10:01	09/21/22 15:48	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-148,4.1

Date Collected: 09/14/22 09:22
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/20/22 10:01	09/21/22 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*09/20/22 10:01*	*09/21/22 15:48*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*09/20/22 10:01*	*09/21/22 15:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**440**		4.95		mg/Kg			09/23/22 02:46	1

Client Sample ID: C-149,4.1

Date Collected: 09/14/22 09:24
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-12

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 20:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 20:39	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 20:39	1
m,p-Xylenes	<0.00401	U *+	0.00401		mg/Kg		09/22/22 16:31	09/27/22 20:39	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 20:39	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		09/22/22 16:31	09/27/22 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 20:39*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*09/22/22 16:31*	*09/27/22 20:39*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 16:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 10:01	09/21/22 16:09	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 10:01	09/21/22 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*09/20/22 10:01*	*09/21/22 16:09*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*09/20/22 10:01*	*09/21/22 16:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**688**		4.96		mg/Kg			09/23/22 03:00	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-150,4.1

Date Collected: 09/14/22 09:26
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:31	09/27/22 20:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:31	09/27/22 20:59	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/22/22 16:31	09/27/22 20:59	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/22/22 16:31	09/27/22 20:59	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/22/22 16:31	09/27/22 20:59	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/22/22 16:31	09/27/22 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*163*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 20:59*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/22/22 16:31*	*09/27/22 20:59*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 16:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 16:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*09/20/22 10:01*	*09/21/22 16:31*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*09/20/22 10:01*	*09/21/22 16:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**476**		5.05		mg/Kg			09/23/22 03:05	1

Client Sample ID: C-151,4.1

Date Collected: 09/14/22 09:28
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 21:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 21:20	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 21:20	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		09/22/22 16:31	09/27/22 21:20	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 21:20	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		09/22/22 16:31	09/27/22 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*189*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 21:20*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/22/22 16:31*	*09/27/22 21:20*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-151,4.1

Date Collected: 09/14/22 09:28
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-14

Matrix: Solid

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 16:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/20/22 10:01	09/21/22 16:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/20/22 10:01	09/21/22 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*09/20/22 10:01*	*09/21/22 16:52*	*1*
o-Terphenyl (Surr)	*75*		*70 - 130*	*09/20/22 10:01*	*09/21/22 16:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**839**		5.01		mg/Kg			09/23/22 03:20	1

Client Sample ID: C-152,4.1

Date Collected: 09/14/22 09:30
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-15

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:31	09/27/22 21:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:31	09/27/22 21:41	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/22/22 16:31	09/27/22 21:41	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/22/22 16:31	09/27/22 21:41	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/22/22 16:31	09/27/22 21:41	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/22/22 16:31	09/27/22 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*179*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 21:41*	*1*
1,4-Difluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 21:41*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 17:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 17:14	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-152,4.1

Date Collected: 09/14/22 09:30
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-15

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*09/20/22 10:01*	*09/21/22 17:14*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*09/20/22 10:01*	*09/21/22 17:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**902**		4.97		mg/Kg			09/23/22 03:24	1

Client Sample ID: C-153,0-4.1

Date Collected: 09/14/22 09:32
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-16

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/22/22 16:31	09/27/22 22:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/22/22 16:31	09/27/22 22:01	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		09/22/22 16:31	09/27/22 22:01	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		09/22/22 16:31	09/27/22 22:01	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		09/22/22 16:31	09/27/22 22:01	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		09/22/22 16:31	09/27/22 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*164*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 22:01*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*09/22/22 16:31*	*09/27/22 22:01*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 17:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 17:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/20/22 10:01*	*09/21/22 17:35*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*09/20/22 10:01*	*09/21/22 17:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1420**		24.9		mg/Kg			09/23/22 03:29	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-154,4.1

Date Collected: 09/14/22 09:34
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-17

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 22:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 22:22	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 22:22	1
m,p-Xylenes	<0.00401	U *+	0.00401		mg/Kg		09/22/22 16:31	09/27/22 22:22	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 22:22	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		09/22/22 16:31	09/27/22 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*163*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 22:22*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*09/22/22 16:31*	*09/27/22 22:22*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 17:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 17:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*09/20/22 10:01*	*09/21/22 17:57*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*09/20/22 10:01*	*09/21/22 17:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2500**		25.1		mg/Kg			09/23/22 03:34	5

Client Sample ID: C-155,0-4.1

Date Collected: 09/14/22 09:36
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-18

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 22:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 22:43	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 22:43	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		09/22/22 16:31	09/27/22 22:43	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 22:43	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		09/22/22 16:31	09/27/22 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*188*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 22:43*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*09/22/22 16:31*	*09/27/22 22:43*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-155,0-4.1 Lab Sample ID: 880-19356-18
Date Collected: 09/14/22 09:36 **Matrix: Solid**
Date Received: 09/19/22 09:50

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 18:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 18:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/20/22 10:01*	*09/21/22 18:18*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*09/20/22 10:01*	*09/21/22 18:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**346**		5.00		mg/Kg			09/23/22 03:39	1

Client Sample ID: C-156,4.1 Lab Sample ID: 880-19356-19
Date Collected: 09/14/22 09:38 **Matrix: Solid**
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:31	09/27/22 23:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/22/22 16:31	09/27/22 23:03	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/22/22 16:31	09/27/22 23:03	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/22/22 16:31	09/27/22 23:03	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/22/22 16:31	09/27/22 23:03	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/22/22 16:31	09/27/22 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*165*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 23:03*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*09/22/22 16:31*	*09/27/22 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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:01	09/21/22 18:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 18:40	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-156,4.1

Date Collected: 09/14/22 09:38
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-19

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:01	09/21/22 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*09/20/22 10:01*	*09/21/22 18:40*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*09/20/22 10:01*	*09/21/22 18:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1580**		25.0		mg/Kg			09/23/22 03:44	5

Client Sample ID: C-157,0-4.1

Date Collected: 09/14/22 09:40
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 23:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 23:24	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 23:24	1
m,p-Xylenes	<0.00401	U *+	0.00401		mg/Kg		09/22/22 16:31	09/27/22 23:24	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/22/22 16:31	09/27/22 23:24	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		09/22/22 16:31	09/27/22 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*188*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 23:24*	*1*
1,4-Difluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 23:24*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:02	09/21/22 19:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 10:02	09/21/22 19:01	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 10:02	09/21/22 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*09/20/22 10:02*	*09/21/22 19:01*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*09/20/22 10:02*	*09/21/22 19:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1530**		25.0		mg/Kg			09/23/22 03:49	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-158,4.1

Date Collected: 09/14/22 09:42
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-21

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- F1 F2	0.00199		mg/Kg		09/22/22 16:33	09/27/22 23:21	1
Toluene	<0.00199	U *- *1 F1	0.00199		mg/Kg		09/22/22 16:33	09/27/22 23:21	1
Ethylbenzene	<0.00199	U *- *1 F1 F2	0.00199		mg/Kg		09/22/22 16:33	09/27/22 23:21	1
m,p-Xylenes	<0.00398	U *- *1 F1 F2	0.00398		mg/Kg		09/22/22 16:33	09/27/22 23:21	1
o-Xylene	<0.00199	U *- *1 F1	0.00199		mg/Kg		09/22/22 16:33	09/27/22 23:21	1
Xylenes, Total	<0.00398	U *- *1 F1	0.00398		mg/Kg		09/22/22 16:33	09/27/22 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/22/22 16:33*	*09/27/22 23:21*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/22/22 16:33*	*09/27/22 23:21*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 10:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 10:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/20/22 12:03*	*09/22/22 10:44*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*09/20/22 12:03*	*09/22/22 10:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1280**		4.98		mg/Kg			09/23/22 04:27	1

Client Sample ID: C-159,0-4.1

Date Collected: 09/14/22 09:44
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-22

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		09/22/22 16:33	09/27/22 23:42	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/27/22 23:42	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/27/22 23:42	1
m,p-Xylenes	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/27/22 23:42	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/27/22 23:42	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/27/22 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/22/22 16:33*	*09/27/22 23:42*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/22/22 16:33*	*09/27/22 23:42*	*1*

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-159,0-4.1 Lab Sample ID: 880-19356-22
Date Collected: 09/14/22 09:44 **Matrix: Solid**
Date Received: 09/19/22 09:50

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 11:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 11:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*09/20/22 12:03*	*09/22/22 11:48*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*09/20/22 12:03*	*09/22/22 11:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		5.00		mg/Kg			09/23/22 04:42	1

Client Sample ID: C-160,4.1 Lab Sample ID: 880-19356-23
Date Collected: 09/14/22 09:46 **Matrix: Solid**
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		09/22/22 16:33	09/28/22 00:02	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		09/22/22 16:33	09/28/22 00:02	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		09/22/22 16:33	09/28/22 00:02	1
m,p-Xylenes	<0.00402	U *- *1	0.00402		mg/Kg		09/22/22 16:33	09/28/22 00:02	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		09/22/22 16:33	09/28/22 00:02	1
Xylenes, Total	<0.00402	U *- *1	0.00402		mg/Kg		09/22/22 16:33	09/28/22 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*09/22/22 16:33*	*09/28/22 00:02*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/22/22 16:33*	*09/28/22 00:02*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 12:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 12:09	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-160,4.1

Date Collected: 09/14/22 09:46
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-23

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*09/20/22 12:03*	*09/22/22 12:09*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*09/20/22 12:03*	*09/22/22 12:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1420**		25.0		mg/Kg			09/23/22 04:47	5

Client Sample ID: C-161,0-4.1

Date Collected: 09/14/22 09:48
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-24

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 16:33	09/28/22 00:22	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 00:22	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 00:22	1
m,p-Xylenes	<0.00401	U *- *1	0.00401		mg/Kg		09/22/22 16:33	09/28/22 00:22	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 00:22	1
Xylenes, Total	<0.00401	U *- *1	0.00401		mg/Kg		09/22/22 16:33	09/28/22 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/22/22 16:33*	*09/28/22 00:22*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/22/22 16:33*	*09/28/22 00:22*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 12:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 12:30	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/20/22 12:03*	*09/22/22 12:30*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*09/20/22 12:03*	*09/22/22 12:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**360**		4.97		mg/Kg			09/23/22 04:52	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-162,4.1

Date Collected: 09/14/22 09:50
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-25

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 16:33	09/28/22 00:43	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 00:43	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 00:43	1
m,p-Xylenes	<0.00399	U *- *1	0.00399		mg/Kg		09/22/22 16:33	09/28/22 00:43	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 00:43	1
Xylenes, Total	<0.00399	U *- *1	0.00399		mg/Kg		09/22/22 16:33	09/28/22 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*09/22/22 16:33*	*09/28/22 00:43*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/22/22 16:33*	*09/28/22 00:43*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 12:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 12:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*09/20/22 12:03*	*09/22/22 12:51*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*09/20/22 12:03*	*09/22/22 12:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1180**		4.96		mg/Kg			09/23/22 04:57	1

Client Sample ID: C-163,0-4.1

Date Collected: 09/14/22 09:52
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-26

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		09/22/22 16:33	09/28/22 01:03	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 01:03	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 01:03	1
m,p-Xylenes	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/28/22 01:03	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 01:03	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/28/22 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/22/22 16:33*	*09/28/22 01:03*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/22/22 16:33*	*09/28/22 01:03*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-163,0-4.1 Lab Sample ID: 880-19356-26
Date Collected: 09/14/22 09:52 **Matrix: Solid**
Date Received: 09/19/22 09:50

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 13:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 13:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/20/22 12:03*	*09/22/22 13:12*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*09/20/22 12:03*	*09/22/22 13:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**288**		5.05		mg/Kg			09/23/22 05:11	1

Client Sample ID: C-164,4.1 Lab Sample ID: 880-19356-27
Date Collected: 09/14/22 09:54 **Matrix: Solid**
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		09/22/22 16:33	09/28/22 01:24	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 01:24	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 01:24	1
m,p-Xylenes	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/28/22 01:24	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 01:24	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/28/22 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*09/22/22 16:33*	*09/28/22 01:24*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/22/22 16:33*	*09/28/22 01:24*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 13:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/20/22 12:03	09/22/22 13:34	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-164,4.1

Lab Sample ID: 880-19356-27
Matrix: Solid
Date Collected: 09/14/22 09:54
Date Received: 09/19/22 09:50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/20/22 12:03	09/22/22 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*09/20/22 12:03*	*09/22/22 13:34*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*09/20/22 12:03*	*09/22/22 13:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**462**		4.98		mg/Kg			09/23/22 05:16	1

Client Sample ID: C-165,0-4.1

Lab Sample ID: 880-19356-28
Matrix: Solid
Date Collected: 09/14/22 09:56
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 16:33	09/28/22 01:44	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 01:44	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 01:44	1
m,p-Xylenes	<0.00399	U *- *1	0.00399		mg/Kg		09/22/22 16:33	09/28/22 01:44	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 01:44	1
Xylenes, Total	<0.00399	U *- *1	0.00399		mg/Kg		09/22/22 16:33	09/28/22 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*09/22/22 16:33*	*09/28/22 01:44*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/22/22 16:33*	*09/28/22 01:44*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 13:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 13:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*09/20/22 12:03*	*09/22/22 13:55*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*09/20/22 12:03*	*09/22/22 13:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.0**		5.00		mg/Kg			09/23/22 05:21	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-166,4.1

Date Collected: 09/14/22 09:58
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-29

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		09/22/22 16:33	09/28/22 02:04	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 02:04	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 02:04	1
m,p-Xylenes	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/28/22 02:04	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 02:04	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/28/22 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*09/22/22 16:33*	*09/28/22 02:04*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*09/22/22 16:33*	*09/28/22 02:04*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 14:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 14:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*09/20/22 12:03*	*09/22/22 14:16*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*09/20/22 12:03*	*09/22/22 14:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.4**		4.95		mg/Kg			09/23/22 05:26	1

Client Sample ID: C-167 0-4.1

Date Collected: 09/14/22 10:00
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-30

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		09/22/22 16:33	09/28/22 02:25	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		09/22/22 16:33	09/28/22 02:25	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		09/22/22 16:33	09/28/22 02:25	1
m,p-Xylenes	<0.00402	U *- *1	0.00402		mg/Kg		09/22/22 16:33	09/28/22 02:25	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		09/22/22 16:33	09/28/22 02:25	1
Xylenes, Total	<0.00402	U *- *1	0.00402		mg/Kg		09/22/22 16:33	09/28/22 02:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/22/22 16:33*	*09/28/22 02:25*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*09/22/22 16:33*	*09/28/22 02:25*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-167 0-4.1 Lab Sample ID: 880-19356-30
Date Collected: 09/14/22 10:00 **Matrix: Solid**
Date Received: 09/19/22 09:50

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 14:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 14:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/20/22 12:03*	*09/22/22 14:37*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*09/20/22 12:03*	*09/22/22 14:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4230**		49.6		mg/Kg			09/23/22 05:31	10

Client Sample ID: C-168,4.1 Lab Sample ID: 880-19356-31
Date Collected: 09/14/22 10:02 **Matrix: Solid**
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 16:33	09/28/22 04:14	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 04:14	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 04:14	1
m,p-Xylenes	<0.00399	U *- *1	0.00399		mg/Kg		09/22/22 16:33	09/28/22 04:14	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 04:14	1
Xylenes, Total	<0.00399	U *- *1	0.00399		mg/Kg		09/22/22 16:33	09/28/22 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/22/22 16:33*	*09/28/22 04:14*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/22/22 16:33*	*09/28/22 04:14*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 15:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 15:34	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-168,4.1

Date Collected: 09/14/22 10:02
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-31

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/20/22 12:03*	*09/22/22 15:34*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*09/20/22 12:03*	*09/22/22 15:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**358**		5.00		mg/Kg			09/23/22 05:36	1

Client Sample ID: C-170,4.1

Date Collected: 09/14/22 10:06
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-32

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		09/22/22 16:33	09/28/22 04:35	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 04:35	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 04:35	1
m,p-Xylenes	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/28/22 04:35	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 04:35	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/28/22 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/22/22 16:33*	*09/28/22 04:35*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/22/22 16:33*	*09/28/22 04:35*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 15:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*124*		*70 - 130*	*09/20/22 12:03*	*09/22/22 15:55*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*09/20/22 12:03*	*09/22/22 15:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		4.95		mg/Kg			09/23/22 05:50	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-172,4.1

Date Collected: 09/14/22 10:10
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-33

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		09/22/22 16:33	09/28/22 04:55	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		09/22/22 16:33	09/28/22 04:55	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		09/22/22 16:33	09/28/22 04:55	1
m,p-Xylenes	<0.00402	U *- *1	0.00402		mg/Kg		09/22/22 16:33	09/28/22 04:55	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		09/22/22 16:33	09/28/22 04:55	1
Xylenes, Total	<0.00402	U *- *1	0.00402		mg/Kg		09/22/22 16:33	09/28/22 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/22/22 16:33*	*09/28/22 04:55*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/22/22 16:33*	*09/28/22 04:55*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 16:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 16:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*09/20/22 12:03*	*09/22/22 16:17*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*09/20/22 12:03*	*09/22/22 16:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.8**		4.98		mg/Kg			09/23/22 05:55	1

Client Sample ID: C-174,4.1

Date Collected: 09/14/22 10:14
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-34

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 16:33	09/28/22 05:16	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 05:16	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 05:16	1
m,p-Xylenes	<0.00401	U *- *1	0.00401		mg/Kg		09/22/22 16:33	09/28/22 05:16	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 05:16	1
Xylenes, Total	<0.00401	U *- *1	0.00401		mg/Kg		09/22/22 16:33	09/28/22 05:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*09/22/22 16:33*	*09/28/22 05:16*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/22/22 16:33*	*09/28/22 05:16*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-174,4.1 — Lab Sample ID: 880-19356-34
Date Collected: 09/14/22 10:14 **Matrix: Solid**
Date Received: 09/19/22 09:50

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 16:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 16:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*09/20/22 12:03*	*09/22/22 16:38*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/20/22 12:03*	*09/22/22 16:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**430**		5.05		mg/Kg			09/23/22 06:10	1

Client Sample ID: C-176,4.1 — Lab Sample ID: 880-19356-35
Date Collected: 09/14/22 10:18 **Matrix: Solid**
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		09/22/22 16:33	09/28/22 05:36	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 05:36	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 05:36	1
m,p-Xylenes	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/28/22 05:36	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 05:36	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/28/22 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/22/22 16:33*	*09/28/22 05:36*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/22/22 16:33*	*09/28/22 05:36*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 17:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/20/22 12:03	09/22/22 17:00	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-176,4.1

Lab Sample ID: 880-19356-35
Matrix: Solid
Date Collected: 09/14/22 10:18
Date Received: 09/19/22 09:50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/20/22 12:03	09/22/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/20/22 12:03*	*09/22/22 17:00*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*09/20/22 12:03*	*09/22/22 17:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**363**		5.02		mg/Kg			09/23/22 06:15	1

Client Sample ID: C-178,4.1

Lab Sample ID: 880-19356-36
Matrix: Solid
Date Collected: 09/14/22 10:22
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 16:33	09/28/22 05:56	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 05:56	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 05:56	1
m,p-Xylenes	<0.00399	U *- *1	0.00399		mg/Kg		09/22/22 16:33	09/28/22 05:56	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 05:56	1
Xylenes, Total	<0.00399	U *- *1	0.00399		mg/Kg		09/22/22 16:33	09/28/22 05:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/22/22 16:33*	*09/28/22 05:56*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/22/22 16:33*	*09/28/22 05:56*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 17:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 17:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*09/20/22 12:03*	*09/22/22 17:21*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/20/22 12:03*	*09/22/22 17:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2040**		24.9		mg/Kg			09/23/22 06:20	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-180,4.1

Date Collected: 09/14/22 12:30
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-37

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		09/22/22 16:33	09/28/22 06:17	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 06:17	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 06:17	1
m,p-Xylenes	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/28/22 06:17	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		09/22/22 16:33	09/28/22 06:17	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		09/22/22 16:33	09/28/22 06:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/22/22 16:33*	*09/28/22 06:17*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/22/22 16:33*	*09/28/22 06:17*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 17:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 17:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*09/20/22 12:03*	*09/22/22 17:43*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*09/20/22 12:03*	*09/22/22 17:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**905**		4.95		mg/Kg			09/23/22 06:24	1

Client Sample ID: C-182,4.1

Date Collected: 09/14/22 12:35
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-38

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *-	0.00198		mg/Kg		09/22/22 16:33	09/28/22 06:37	1
Toluene	<0.00198	U *- *1	0.00198		mg/Kg		09/22/22 16:33	09/28/22 06:37	1
Ethylbenzene	<0.00198	U *- *1	0.00198		mg/Kg		09/22/22 16:33	09/28/22 06:37	1
m,p-Xylenes	<0.00396	U *- *1	0.00396		mg/Kg		09/22/22 16:33	09/28/22 06:37	1
o-Xylene	<0.00198	U *- *1	0.00198		mg/Kg		09/22/22 16:33	09/28/22 06:37	1
Xylenes, Total	<0.00396	U *- *1	0.00396		mg/Kg		09/22/22 16:33	09/28/22 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/22/22 16:33*	*09/28/22 06:37*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/22/22 16:33*	*09/28/22 06:37*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-182,4.1

Date Collected: 09/14/22 12:35
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-38

Matrix: Solid

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 18:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 18:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*09/20/22 12:03*	*09/22/22 18:05*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*09/20/22 12:03*	*09/22/22 18:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1030**		5.05		mg/Kg			09/23/22 06:29	1

Client Sample ID: C-184,4.1

Date Collected: 09/14/22 12:40
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-39

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		09/22/22 16:33	09/28/22 06:58	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		09/22/22 16:33	09/28/22 06:58	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		09/22/22 16:33	09/28/22 06:58	1
m,p-Xylenes	<0.00402	U *- *1	0.00402		mg/Kg		09/22/22 16:33	09/28/22 06:58	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		09/22/22 16:33	09/28/22 06:58	1
Xylenes, Total	<0.00402	U *- *1	0.00402		mg/Kg		09/22/22 16:33	09/28/22 06:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/22/22 16:33*	*09/28/22 06:58*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/22/22 16:33*	*09/28/22 06:58*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 18:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 18:26	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-184,4.1

Date Collected: 09/14/22 12:40
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-39

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*09/20/22 12:03*	*09/22/22 18:26*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*09/20/22 12:03*	*09/22/22 18:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2590**		24.8		mg/Kg			09/23/22 06:34	5

Client Sample ID: C-186,4.1

Date Collected: 09/14/22 12:50
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-40

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 16:33	09/28/22 07:18	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 07:18	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 07:18	1
m,p-Xylenes	<0.00399	U *- *1	0.00399		mg/Kg		09/22/22 16:33	09/28/22 07:18	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		09/22/22 16:33	09/28/22 07:18	1
Xylenes, Total	<0.00399	U *- *1	0.00399		mg/Kg		09/22/22 16:33	09/28/22 07:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*09/22/22 16:33*	*09/28/22 07:18*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/22/22 16:33*	*09/28/22 07:18*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 12:03	09/22/22 18:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 18:48	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 12:03	09/22/22 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*09/20/22 12:03*	*09/22/22 18:48*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*09/20/22 12:03*	*09/22/22 18:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**828**		5.01		mg/Kg			09/23/22 06:39	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-188,4.1

Date Collected: 09/14/22 12:52
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-41

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 16:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 16:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 16:40	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/26/22 16:11	09/27/22 16:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 16:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/26/22 16:11	09/27/22 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/26/22 16:11*	*09/27/22 16:40*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*09/26/22 16:11*	*09/27/22 16:40*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 10:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 10:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/20/22 14:26*	*09/22/22 10:44*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*09/20/22 14:26*	*09/22/22 10:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1370**		24.9		mg/Kg			09/22/22 16:52	5

Client Sample ID: C-190,4.1

Date Collected: 09/14/22 12:55
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-42

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 17:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 17:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 17:00	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/26/22 16:11	09/27/22 17:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 17:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/26/22 16:11	09/27/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/26/22 16:11*	*09/27/22 17:00*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/26/22 16:11*	*09/27/22 17:00*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-190,4.1

Date Collected: 09/14/22 12:55
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-42

Matrix: Solid

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 11:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 11:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*09/20/22 14:26*	*09/22/22 11:48*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*09/20/22 14:26*	*09/22/22 11:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1560**		24.8		mg/Kg			09/22/22 17:09	5

Client Sample ID: C-191,4.1

Date Collected: 09/14/22 12:59
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-43

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 17:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 17:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 17:20	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/26/22 16:11	09/27/22 17:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 17:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/26/22 16:11	09/27/22 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/26/22 16:11*	*09/27/22 17:20*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/26/22 16:11*	*09/27/22 17:20*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 12:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 12:09	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-191,4.1

Date Collected: 09/14/22 12:59
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-43

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/20/22 14:26*	*09/22/22 12:09*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*09/20/22 14:26*	*09/22/22 12:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1680**		25.0		mg/Kg			09/22/22 17:14	5

Client Sample ID: C-192,4.1

Date Collected: 09/14/22 13:04
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-44

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 17:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 17:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 17:41	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/26/22 16:11	09/27/22 17:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 17:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/26/22 16:11	09/27/22 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/26/22 16:11*	*09/27/22 17:41*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*09/26/22 16:11*	*09/27/22 17:41*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 12:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 12:30	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/20/22 14:26*	*09/22/22 12:30*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/20/22 14:26*	*09/22/22 12:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1910**		24.9		mg/Kg			09/22/22 17:19	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-193,4.1

Date Collected: 09/14/22 13:09
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-45

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/26/22 16:11	09/27/22 18:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/26/22 16:11	09/27/22 18:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/26/22 16:11	09/27/22 18:01	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/26/22 16:11	09/27/22 18:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/26/22 16:11	09/27/22 18:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/26/22 16:11	09/27/22 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/26/22 16:11*	*09/27/22 18:01*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/26/22 16:11*	*09/27/22 18:01*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 12:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 12:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*09/20/22 14:26*	*09/22/22 12:51*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/20/22 14:26*	*09/22/22 12:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**323**		4.99		mg/Kg			09/22/22 17:25	1

Client Sample ID: C-194,4.1

Date Collected: 09/14/22 13:18
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-46

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/26/22 16:11	09/27/22 18:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/26/22 16:11	09/27/22 18:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/26/22 16:11	09/27/22 18:22	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		09/26/22 16:11	09/27/22 18:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/26/22 16:11	09/27/22 18:22	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/26/22 16:11	09/27/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/26/22 16:11*	*09/27/22 18:22*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/26/22 16:11*	*09/27/22 18:22*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-194,4.1

Date Collected: 09/14/22 13:18
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-46
Matrix: Solid

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 13:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 13:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*09/20/22 14:26*	*09/22/22 13:12*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*09/20/22 14:26*	*09/22/22 13:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**162**		5.05		mg/Kg			09/22/22 20:50	1

Client Sample ID: C-195,4.1

Date Collected: 09/15/22 10:41
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-47
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 18:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 18:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 18:42	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/26/22 16:11	09/27/22 18:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 18:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/26/22 16:11	09/27/22 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/26/22 16:11*	*09/27/22 18:42*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*09/26/22 16:11*	*09/27/22 18:42*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 13:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/20/22 14:26	09/22/22 13:34	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-195,4.1

Date Collected: 09/15/22 10:41
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-47

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/20/22 14:26	09/22/22 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*09/20/22 14:26*	*09/22/22 13:34*	*1*
o-Terphenyl (Surr)	*119*		*70 - 130*	*09/20/22 14:26*	*09/22/22 13:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1700**		24.9		mg/Kg			09/22/22 20:55	5

Client Sample ID: C-196,4.1

Date Collected: 09/15/22 10:44
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-48

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 19:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 19:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 19:02	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/26/22 16:11	09/27/22 19:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 19:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/26/22 16:11	09/27/22 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/26/22 16:11*	*09/27/22 19:02*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*09/26/22 16:11*	*09/27/22 19:02*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 13:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 13:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*09/20/22 14:26*	*09/22/22 13:55*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*09/20/22 14:26*	*09/22/22 13:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1590**		25.2		mg/Kg			09/22/22 21:01	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-197,4.1

Date Collected: 09/15/22 10:47
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-49

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 19:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 19:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 19:23	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/26/22 16:11	09/27/22 19:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/26/22 16:11	09/27/22 19:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/26/22 16:11	09/27/22 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*09/26/22 16:11*	*09/27/22 19:23*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*09/26/22 16:11*	*09/27/22 19:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 14:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 14:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*09/20/22 14:26*	*09/22/22 14:16*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*09/20/22 14:26*	*09/22/22 14:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**315**		4.98		mg/Kg			09/22/22 21:06	1

Client Sample ID: C-198,4.1

Date Collected: 09/15/22 14:00
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-50

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 19:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 19:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 19:43	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/26/22 16:11	09/27/22 19:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 19:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/26/22 16:11	09/27/22 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/26/22 16:11*	*09/27/22 19:43*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/26/22 16:11*	*09/27/22 19:43*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-198,4.1

Date Collected: 09/15/22 14:00
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-50

Matrix: Solid

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 14:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 14:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*09/20/22 14:26*	*09/22/22 14:37*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*09/20/22 14:26*	*09/22/22 14:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.3**		4.99		mg/Kg			09/22/22 21:11	1

Client Sample ID: C-199,4.1

Date Collected: 09/15/22 14:04
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-51

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/27/22 16:49	09/28/22 03:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/27/22 16:49	09/28/22 03:53	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/27/22 16:49	09/28/22 03:53	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		09/27/22 16:49	09/28/22 03:53	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/27/22 16:49	09/28/22 03:53	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		09/27/22 16:49	09/28/22 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*	*09/27/22 16:49*	*09/28/22 03:53*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*09/27/22 16:49*	*09/28/22 03:53*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 15:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/20/22 14:26	09/22/22 15:34	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-199,4.1

Date Collected: 09/15/22 14:04
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-51

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/20/22 14:26	09/22/22 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*09/20/22 14:26*	*09/22/22 15:34*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*09/20/22 14:26*	*09/22/22 15:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.0**		4.95		mg/Kg			09/22/22 21:17	1

Client Sample ID: C-200,4.1

Date Collected: 09/15/22 14:06
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-52

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/22/22 16:49	09/28/22 04:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/22/22 16:49	09/28/22 04:14	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		09/22/22 16:49	09/28/22 04:14	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		09/22/22 16:49	09/28/22 04:14	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		09/22/22 16:49	09/28/22 04:14	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		09/22/22 16:49	09/28/22 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*166*	*S1+*	*70 - 130*	*09/22/22 16:49*	*09/28/22 04:14*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*09/22/22 16:49*	*09/28/22 04:14*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 15:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 15:55	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*09/20/22 14:26*	*09/22/22 15:55*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*09/20/22 14:26*	*09/22/22 15:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.7**		4.96		mg/Kg			09/22/22 21:33	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-201,4.1

Date Collected: 09/15/22 14:09
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-53

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/27/22 16:49	09/28/22 04:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/27/22 16:49	09/28/22 04:35	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		09/27/22 16:49	09/28/22 04:35	1
m,p-Xylenes	<0.00403	U *+	0.00403		mg/Kg		09/27/22 16:49	09/28/22 04:35	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		09/27/22 16:49	09/28/22 04:35	1
Xylenes, Total	<0.00403	U *+	0.00403		mg/Kg		09/27/22 16:49	09/28/22 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*09/27/22 16:49*	*09/28/22 04:35*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*09/27/22 16:49*	*09/28/22 04:35*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 16:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 16:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/20/22 14:26*	*09/22/22 16:17*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*09/20/22 14:26*	*09/22/22 16:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.7**		5.05		mg/Kg			09/22/22 21:38	1

Client Sample ID: C-202,0-4.1

Date Collected: 09/15/22 14:15
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-54

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/27/22 16:49	09/28/22 04:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/27/22 16:49	09/28/22 04:55	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/27/22 16:49	09/28/22 04:55	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		09/27/22 16:49	09/28/22 04:55	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/27/22 16:49	09/28/22 04:55	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		09/27/22 16:49	09/28/22 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*164*	*S1+*	*70 - 130*	*09/27/22 16:49*	*09/28/22 04:55*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/27/22 16:49*	*09/28/22 04:55*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-202,0-4.1 Lab Sample ID: 880-19356-54
Date Collected: 09/15/22 14:15 **Matrix: Solid**
Date Received: 09/19/22 09:50

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 16:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 16:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*09/20/22 14:26*	*09/22/22 16:38*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*09/20/22 14:26*	*09/22/22 16:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.7**		4.97		mg/Kg			09/22/22 21:55	1

Client Sample ID: C-203,0-4.1 Lab Sample ID: 880-19356-55
Date Collected: 09/15/22 14:18 **Matrix: Solid**
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/27/22 16:49	09/28/22 05:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/27/22 16:49	09/28/22 05:16	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		09/27/22 16:49	09/28/22 05:16	1
m,p-Xylenes	<0.00396	U *+	0.00396		mg/Kg		09/27/22 16:49	09/28/22 05:16	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		09/27/22 16:49	09/28/22 05:16	1
Xylenes, Total	<0.00396	U *+	0.00396		mg/Kg		09/27/22 16:49	09/28/22 05:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/27/22 16:49*	*09/28/22 05:16*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*09/27/22 16:49*	*09/28/22 05:16*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 17:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/20/22 14:26	09/22/22 17:00	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-203,0-4.1 Lab Sample ID: 880-19356-55
Date Collected: 09/15/22 14:18 **Matrix: Solid**
Date Received: 09/19/22 09:50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/20/22 14:26	09/22/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*09/20/22 14:26*	*09/22/22 17:00*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*09/20/22 14:26*	*09/22/22 17:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.5**		5.02		mg/Kg			09/22/22 22:00	1

Client Sample ID: C-204,0-4.1 Lab Sample ID: 880-19356-56
Date Collected: 09/15/22 14:28 **Matrix: Solid**
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/27/22 16:49	09/28/22 05:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/27/22 16:49	09/28/22 05:37	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		09/27/22 16:49	09/28/22 05:37	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		09/27/22 16:49	09/28/22 05:37	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		09/27/22 16:49	09/28/22 05:37	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		09/27/22 16:49	09/28/22 05:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*09/27/22 16:49*	*09/28/22 05:37*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*09/27/22 16:49*	*09/28/22 05:37*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 17:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 17:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*09/20/22 14:26*	*09/22/22 17:21*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*09/20/22 14:26*	*09/22/22 17:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.4**		4.98		mg/Kg			09/22/22 22:06	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-205,0-4.1

Date Collected: 09/15/22 14:29
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-57

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/27/22 16:49	09/28/22 07:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/27/22 16:49	09/28/22 07:00	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/27/22 16:49	09/28/22 07:00	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		09/27/22 16:49	09/28/22 07:00	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/27/22 16:49	09/28/22 07:00	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		09/27/22 16:49	09/28/22 07:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*09/27/22 16:49*	*09/28/22 07:00*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*09/27/22 16:49*	*09/28/22 07:00*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 17:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 17:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*09/20/22 14:26*	*09/22/22 17:43*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*09/20/22 14:26*	*09/22/22 17:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.6**		4.98		mg/Kg			09/22/22 22:11	1

Client Sample ID: C-206,1.5

Date Collected: 09/16/22 10:44
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-58

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/27/22 16:49	09/28/22 07:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/27/22 16:49	09/28/22 07:21	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		09/27/22 16:49	09/28/22 07:21	1
m,p-Xylenes	<0.00404	U *+	0.00404		mg/Kg		09/27/22 16:49	09/28/22 07:21	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		09/27/22 16:49	09/28/22 07:21	1
Xylenes, Total	<0.00404	U *+	0.00404		mg/Kg		09/27/22 16:49	09/28/22 07:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*172*	*S1+*	*70 - 130*	*09/27/22 16:49*	*09/28/22 07:21*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*09/27/22 16:49*	*09/28/22 07:21*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-206,1.5

Date Collected: 09/16/22 10:44
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-58

Matrix: Solid

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 18:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 18:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*09/20/22 14:26*	*09/22/22 18:05*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*09/20/22 14:26*	*09/22/22 18:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.8**		5.03		mg/Kg			09/22/22 22:16	1

Client Sample ID: C-207,1.5

Date Collected: 09/16/22 10:46
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-59

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		09/27/22 16:49	09/28/22 02:30	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		09/27/22 16:49	09/28/22 02:30	1
Ethylbenzene	<0.00201	U *+ F1 F2	0.00201		mg/Kg		09/27/22 16:49	09/28/22 02:30	1
m,p-Xylenes	<0.00402	U *+ F1 F2	0.00402		mg/Kg		09/27/22 16:49	09/28/22 02:30	1
o-Xylene	<0.00201	U *+ F1 F2	0.00201		mg/Kg		09/27/22 16:49	09/28/22 02:30	1
Xylenes, Total	<0.00402	U *+ F1 F2	0.00402		mg/Kg		09/27/22 16:49	09/28/22 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*155*	*S1+*	*70 - 130*	*09/27/22 16:49*	*09/28/22 02:30*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*09/27/22 16:49*	*09/28/22 02:30*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 18:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 18:26	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-207,1.5

Date Collected: 09/16/22 10:46
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-59

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/20/22 14:26*	*09/22/22 18:26*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*09/20/22 14:26*	*09/22/22 18:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.6**		4.99		mg/Kg			09/22/22 22:22	1

Client Sample ID: C-208,1.5

Date Collected: 09/16/22 10:48
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-60

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/27/22 16:49	09/28/22 02:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/27/22 16:49	09/28/22 02:51	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		09/27/22 16:49	09/28/22 02:51	1
m,p-Xylenes	<0.00396	U *+	0.00396		mg/Kg		09/27/22 16:49	09/28/22 02:51	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		09/27/22 16:49	09/28/22 02:51	1
Xylenes, Total	<0.00396	U *+	0.00396		mg/Kg		09/27/22 16:49	09/28/22 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*53*	*S1-*	*70 - 130*	*09/27/22 16:49*	*09/28/22 02:51*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*09/27/22 16:49*	*09/28/22 02:51*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:26	09/22/22 18:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 18:48	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:26	09/22/22 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*09/20/22 14:26*	*09/22/22 18:48*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*09/20/22 14:26*	*09/22/22 18:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.8**		5.02		mg/Kg			09/22/22 22:27	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-209,1.5

Date Collected: 09/16/22 10:50
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-61

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		09/28/22 12:28	09/29/22 22:21	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		09/28/22 12:28	09/29/22 22:21	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		09/28/22 12:28	09/29/22 22:21	1
m,p-Xylenes	<0.00402	U F1	0.00402		mg/Kg		09/28/22 12:28	09/29/22 22:21	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		09/28/22 12:28	09/29/22 22:21	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		09/28/22 12:28	09/29/22 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/28/22 12:28*	*09/29/22 22:21*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*09/28/22 12:28*	*09/29/22 22:21*	*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			09/26/22 16:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**104**		49.9		mg/Kg			09/21/22 11:48	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		09/20/22 14:30	09/20/22 20:07	1
Diesel Range Organics (Over C10-C28)	**104**		49.9		mg/Kg		09/20/22 14:30	09/20/22 20:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/20/22 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*09/20/22 14:30*	*09/20/22 20:07*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*09/20/22 14:30*	*09/20/22 20:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**178**	**F1 F2**	5.04		mg/Kg			09/22/22 23:10	1

Client Sample ID: C-210,1.5

Date Collected: 09/16/22 10:54
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-62

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/29/22 22:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/29/22 22:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/29/22 22:42	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/28/22 12:28	09/29/22 22:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/29/22 22:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/28/22 12:28	09/29/22 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*09/28/22 12:28*	*09/29/22 22:42*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/28/22 12:28*	*09/29/22 22:42*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-210,1.5

Date Collected: 09/16/22 10:54
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-62

Matrix: Solid

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:30	09/20/22 21:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/20/22 21:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/20/22 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*09/20/22 14:30*	*09/20/22 21:11*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*09/20/22 14:30*	*09/20/22 21:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.5**		4.99		mg/Kg			09/22/22 23:27	1

Client Sample ID: C-211,0-1.5

Date Collected: 09/16/22 10:59
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-63

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/28/22 12:28	09/29/22 23:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/28/22 12:28	09/29/22 23:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/28/22 12:28	09/29/22 23:02	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		09/28/22 12:28	09/29/22 23:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/28/22 12:28	09/29/22 23:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/28/22 12:28	09/29/22 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*09/28/22 12:28*	*09/29/22 23:02*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/28/22 12:28*	*09/29/22 23:02*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:30	09/20/22 21:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 14:30	09/20/22 21:33	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-211,0-1.5

Lab Sample ID: 880-19356-63
Matrix: Solid
Date Collected: 09/16/22 10:59
Date Received: 09/19/22 09:50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:30	09/20/22 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/20/22 14:30*	*09/20/22 21:33*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*09/20/22 14:30*	*09/20/22 21:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.0**		5.00		mg/Kg			09/22/22 23:32	1

Client Sample ID: C-212,0-1.5

Lab Sample ID: 880-19356-64
Matrix: Solid
Date Collected: 09/16/22 11:03
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/29/22 23:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/29/22 23:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/29/22 23:23	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/28/22 12:28	09/29/22 23:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/29/22 23:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/28/22 12:28	09/29/22 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/28/22 12:28*	*09/29/22 23:23*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*09/28/22 12:28*	*09/29/22 23:23*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:30	09/20/22 21:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/20/22 21:54	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/20/22 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*09/20/22 14:30*	*09/20/22 21:54*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*09/20/22 14:30*	*09/20/22 21:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**174**		4.96		mg/Kg			09/22/22 23:37	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-213,1.5

Date Collected: 09/16/22 11:06
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-65

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/28/22 12:28	09/29/22 23:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/28/22 12:28	09/29/22 23:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/28/22 12:28	09/29/22 23:43	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		09/28/22 12:28	09/29/22 23:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/28/22 12:28	09/29/22 23:43	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/28/22 12:28	09/29/22 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/28/22 12:28*	*09/29/22 23:43*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*09/28/22 12:28*	*09/29/22 23:43*	*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			09/26/22 16:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**52.1**		50.0		mg/Kg			09/21/22 11:48	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		09/20/22 14:30	09/20/22 22:15	1
Diesel Range Organics (Over C10-C28)	**52.1**		50.0		mg/Kg		09/20/22 14:30	09/20/22 22:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:30	09/20/22 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*09/20/22 14:30*	*09/20/22 22:15*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*09/20/22 14:30*	*09/20/22 22:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**85.4**		4.97		mg/Kg			09/22/22 23:43	1

Client Sample ID: C-214,1.5

Date Collected: 09/16/22 11:09
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-66

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 00:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 00:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 00:04	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/28/22 12:28	09/30/22 00:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 00:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 12:28	09/30/22 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/28/22 12:28*	*09/30/22 00:04*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*09/28/22 12:28*	*09/30/22 00:04*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-214,1.5

Date Collected: 09/16/22 11:09
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-66
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:30	09/20/22 22:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 14:30	09/20/22 22:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:30	09/20/22 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*09/20/22 14:30*	*09/20/22 22:36*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*09/20/22 14:30*	*09/20/22 22:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.3**		4.97		mg/Kg			09/22/22 23:59	1

Client Sample ID: C-215,1.5

Date Collected: 09/16/22 11:15
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-67
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 00:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 00:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 00:24	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/28/22 12:28	09/30/22 00:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 00:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 12:28	09/30/22 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/28/22 12:28*	*09/30/22 00:24*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*09/28/22 12:28*	*09/30/22 00:24*	*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			09/26/22 16:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**134**		49.8		mg/Kg			09/21/22 11:48	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 *1	49.8		mg/Kg		09/20/22 14:30	09/20/22 22:58	1
Diesel Range Organics (Over C10-C28)	**134**		49.8		mg/Kg		09/20/22 14:30	09/20/22 22:58	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-215,1.5

Date Collected: 09/16/22 11:15
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-67

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/20/22 14:30	09/20/22 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*09/20/22 14:30*	*09/20/22 22:58*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*09/20/22 14:30*	*09/20/22 22:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**148**		4.95		mg/Kg			09/23/22 00:04	1

Client Sample ID: C-216,1.5

Date Collected: 09/16/22 11:30
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-68

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/30/22 00:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/30/22 00:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/30/22 00:45	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/28/22 12:28	09/30/22 00:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/30/22 00:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/28/22 12:28	09/30/22 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/28/22 12:28*	*09/30/22 00:45*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*09/28/22 12:28*	*09/30/22 00:45*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:30	09/20/22 23:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/20/22 23:19	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/20/22 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*09/20/22 14:30*	*09/20/22 23:19*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*09/20/22 14:30*	*09/20/22 23:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.2**		4.98		mg/Kg			09/23/22 00:10	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-217,3.5

Date Collected: 09/16/22 14:00
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-69

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/28/22 12:28	09/30/22 01:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/28/22 12:28	09/30/22 01:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/28/22 12:28	09/30/22 01:05	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		09/28/22 12:28	09/30/22 01:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/28/22 12:28	09/30/22 01:05	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/28/22 12:28	09/30/22 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/28/22 12:28*	*09/30/22 01:05*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*09/28/22 12:28*	*09/30/22 01:05*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:30	09/20/22 23:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/20/22 23:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/20/22 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*09/20/22 14:30*	*09/20/22 23:41*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*09/20/22 14:30*	*09/20/22 23:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.4**		5.02		mg/Kg			09/23/22 00:15	1

Client Sample ID: C-218,3.5

Date Collected: 09/16/22 14:04
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-70

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 01:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 01:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 01:26	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/28/22 12:28	09/30/22 01:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 01:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/28/22 12:28	09/30/22 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/28/22 12:28*	*09/30/22 01:26*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*09/28/22 12:28*	*09/30/22 01:26*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-218,3.5

Date Collected: 09/16/22 14:04
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-70

Matrix: Solid

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:30	09/21/22 00:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 14:30	09/21/22 00:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:30	09/21/22 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/20/22 14:30*	*09/21/22 00:02*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/20/22 14:30*	*09/21/22 00:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.2**		5.04		mg/Kg			09/23/22 00:20	1

Client Sample ID: C-219,3.5

Date Collected: 09/16/22 14:06
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-71

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 02:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 02:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 02:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/28/22 12:28	09/30/22 02:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 02:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 12:28	09/30/22 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/28/22 12:28*	*09/30/22 02:48*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*09/28/22 12:28*	*09/30/22 02:48*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:30	09/21/22 00:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 14:30	09/21/22 00:45	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-219,3.5

Lab Sample ID: 880-19356-71
Matrix: Solid
Date Collected: 09/16/22 14:06
Date Received: 09/19/22 09:50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:30	09/21/22 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*09/20/22 14:30*	*09/21/22 00:45*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*09/20/22 14:30*	*09/21/22 00:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.6**		4.99		mg/Kg			09/23/22 00:26	1

Client Sample ID: C-220,3.5

Lab Sample ID: 880-19356-72
Matrix: Solid
Date Collected: 09/16/22 14:08
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 03:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 03:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 03:09	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/28/22 12:28	09/30/22 03:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 03:09	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/28/22 12:28	09/30/22 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/28/22 12:28*	*09/30/22 03:09*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*09/28/22 12:28*	*09/30/22 03:09*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:30	09/21/22 01:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/21/22 01:06	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/21/22 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/20/22 14:30*	*09/21/22 01:06*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/20/22 14:30*	*09/21/22 01:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.8**		5.02		mg/Kg			09/23/22 00:42	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-221,3.5

Date Collected: 09/16/22 14:19
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-73

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 03:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 03:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 03:29	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/28/22 12:28	09/30/22 03:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 03:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 12:28	09/30/22 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/28/22 12:28*	*09/30/22 03:29*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*09/28/22 12:28*	*09/30/22 03:29*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:30	09/21/22 01:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/21/22 01:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/21/22 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*09/20/22 14:30*	*09/21/22 01:28*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/20/22 14:30*	*09/21/22 01:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.2**		5.04		mg/Kg			09/23/22 00:47	1

Client Sample ID: C-222,35

Date Collected: 09/16/22 14:25
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-74

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 03:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 03:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 03:50	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/28/22 12:28	09/30/22 03:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 03:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/28/22 12:28	09/30/22 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/28/22 12:28*	*09/30/22 03:50*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*09/28/22 12:28*	*09/30/22 03:50*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-222,35

Date Collected: 09/16/22 14:25
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-74

Matrix: Solid

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			09/26/22 16:44	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			09/21/22 11:48	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 *1	49.8		mg/Kg		09/20/22 14:30	09/21/22 01:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/20/22 14:30	09/21/22 01:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/20/22 14:30	09/21/22 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*09/20/22 14:30*	*09/21/22 01:49*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*09/20/22 14:30*	*09/21/22 01:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.3**		4.97		mg/Kg			09/23/22 01:04	1

Client Sample ID: C-223,3.5

Date Collected: 09/16/22 14:30
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-75

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 04:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 04:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 04:10	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/28/22 12:28	09/30/22 04:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 12:28	09/30/22 04:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 12:28	09/30/22 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/28/22 12:28*	*09/30/22 04:10*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/28/22 12:28*	*09/30/22 04:10*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:30	09/21/22 02:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 14:30	09/21/22 02:10	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-223,3.5

Date Collected: 09/16/22 14:30
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-75

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:30	09/21/22 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*09/20/22 14:30*	*09/21/22 02:10*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*09/20/22 14:30*	*09/21/22 02:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.5**		5.01		mg/Kg			09/23/22 01:09	1

Client Sample ID: C-224,3.5

Date Collected: 09/16/22 14:33
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-76

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/30/22 04:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/30/22 04:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/30/22 04:31	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/28/22 12:28	09/30/22 04:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/30/22 04:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/28/22 12:28	09/30/22 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/28/22 12:28*	*09/30/22 04:31*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/28/22 12:28*	*09/30/22 04:31*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:30	09/21/22 02:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/21/22 02:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/21/22 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*09/20/22 14:30*	*09/21/22 02:32*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*09/20/22 14:30*	*09/21/22 02:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.7**		5.02		mg/Kg			09/23/22 01:14	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-225,3.5

Date Collected: 09/16/22 14:36
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-77

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/28/22 12:28	09/30/22 04:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/28/22 12:28	09/30/22 04:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/28/22 12:28	09/30/22 04:51	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		09/28/22 12:28	09/30/22 04:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/28/22 12:28	09/30/22 04:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/28/22 12:28	09/30/22 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*09/28/22 12:28*	*09/30/22 04:51*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/28/22 12:28*	*09/30/22 04:51*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 14:30	09/21/22 02:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/21/22 02:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 14:30	09/21/22 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*09/20/22 14:30*	*09/21/22 02:53*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*09/20/22 14:30*	*09/21/22 02:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.9**		4.98		mg/Kg			09/23/22 01:20	1

Client Sample ID: C-226,0-3.5

Date Collected: 09/16/22 14:39
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-78

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/30/22 05:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/30/22 05:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/30/22 05:12	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/28/22 12:28	09/30/22 05:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 12:28	09/30/22 05:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/28/22 12:28	09/30/22 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/28/22 12:28*	*09/30/22 05:12*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*09/28/22 12:28*	*09/30/22 05:12*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-226,0-3.5

Lab Sample ID: 880-19356-78
Matrix: Solid
Date Collected: 09/16/22 14:39
Date Received: 09/19/22 09:50

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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:15	09/21/22 17:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:15	09/21/22 17:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:15	09/21/22 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*09/20/22 10:15*	*09/21/22 17:14*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*09/20/22 10:15*	*09/21/22 17:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.4**		5.03		mg/Kg			09/23/22 01:25	1

Client Sample ID: C-227,0-3.5

Lab Sample ID: 880-19356-79
Matrix: Solid
Date Collected: 09/16/22 14:42
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 05:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 05:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 05:32	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/28/22 12:28	09/30/22 05:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/30/22 05:32	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/28/22 12:28	09/30/22 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/28/22 12:28*	*09/30/22 05:32*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*09/28/22 12:28*	*09/30/22 05:32*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:15	09/21/22 17:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:15	09/21/22 17:35	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-227,0-3.5

Lab Sample ID: 880-19356-79
Matrix: Solid
Date Collected: 09/16/22 14:42
Date Received: 09/19/22 09:50

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:15	09/21/22 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*09/20/22 10:15*	*09/21/22 17:35*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*09/20/22 10:15*	*09/21/22 17:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.1**		5.05		mg/Kg			09/23/22 01:31	1

Client Sample ID: C-228,0-3.5

Lab Sample ID: 880-19356-80
Matrix: Solid
Date Collected: 09/16/22 14:44
Date Received: 09/19/22 09:50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/28/22 12:28	09/30/22 05:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/28/22 12:28	09/30/22 05:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/28/22 12:28	09/30/22 05:53	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		09/28/22 12:28	09/30/22 05:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/28/22 12:28	09/30/22 05:53	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/28/22 12:28	09/30/22 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/28/22 12:28*	*09/30/22 05:53*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*09/28/22 12:28*	*09/30/22 05:53*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:15	09/21/22 17:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:15	09/21/22 17:57	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:15	09/21/22 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*09/20/22 10:15*	*09/21/22 17:57*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*09/20/22 10:15*	*09/21/22 17:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.3**		5.04		mg/Kg			09/23/22 01:36	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-229,0-3.5

Date Collected: 09/16/22 14:48
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-81

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/22 07:58	09/30/22 11:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/22 07:58	09/30/22 11:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/22 07:58	09/30/22 11:05	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/30/22 07:58	09/30/22 11:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/22 07:58	09/30/22 11:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/22 07:58	09/30/22 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*286*	*S1+*	*70 - 130*	*09/30/22 07:58*	*09/30/22 11:05*	*1*
1,4-Difluorobenzene (Surr)	*209*	*S1+*	*70 - 130*	*09/30/22 07:58*	*09/30/22 11:05*	*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			09/26/22 16:44	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			09/21/22 11:48	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		09/20/22 10:15	09/21/22 18:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:15	09/21/22 18:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:15	09/21/22 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*79*		*70 - 130*	*09/20/22 10:15*	*09/21/22 18:18*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*09/20/22 10:15*	*09/21/22 18:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**242**		5.02		mg/Kg			09/22/22 07:32	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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)
880-19356-1	C-138,4.1	129	68 S1-
880-19356-1 MS	C-138,4.1	134 S1+	105
880-19356-1 MSD	C-138,4.1	137 S1+	102
880-19356-2	C-139,4.1	146 S1+	74
880-19356-3	C-140,4.1	158 S1+	76
880-19356-4	C-141,4.1	159 S1+	105
880-19356-5	C-142,4.1	156 S1+	104
880-19356-6	C-143,4.1	161 S1+	112
880-19356-7	C-144,4.1	155 S1+	109
880-19356-8	C-145,4.1	194 S1+	122
880-19356-9	C-146,4.1	184 S1+	119
880-19356-10	C-147,4.1	178 S1+	116
880-19356-11	C-148,4.1	158 S1+	94
880-19356-12	C-149,4.1	151 S1+	109
880-19356-13	C-150,4.1	163 S1+	110
880-19356-14	C-151,4.1	189 S1+	112
880-19356-15	C-152,4.1	179 S1+	137 S1+
880-19356-16	C-153,0-4.1	164 S1+	121
880-19356-17	C-154,4.1	163 S1+	120
880-19356-18	C-155,0-4.1	188 S1+	122
880-19356-19	C-156,4.1	165 S1+	120
880-19356-20	C-157,0-4.1	188 S1+	132 S1+
880-19356-21	C-158,4.1	103	103
880-19356-21 MS	C-158,4.1	78	101
880-19356-21 MSD	C-158,4.1	87	109
880-19356-22	C-159,0-4.1	95	103
880-19356-23	C-160,4.1	102	105
880-19356-24	C-161,0-4.1	87	100
880-19356-25	C-162,4.1	79	112
880-19356-26	C-163,0-4.1	88	117
880-19356-27	C-164,4.1	80	103
880-19356-28	C-165,0-4.1	85	108
880-19356-29	C-166,4.1	96	111
880-19356-30	C-167 0-4.1	87	116
880-19356-31	C-168,4.1	108	110
880-19356-32	C-170,4.1	101	99
880-19356-33	C-172,4.1	99	106
880-19356-34	C-174,4.1	98	107
880-19356-35	C-176,4.1	103	102
880-19356-36	C-178,4.1	100	101
880-19356-37	C-180,4.1	95	100
880-19356-38	C-182,4.1	100	99
880-19356-39	C-184,4.1	87	108
880-19356-40	C-186,4.1	86	108
880-19356-41	C-188,4.1	106	109
880-19356-42	C-190,4.1	104	102
880-19356-43	C-191,4.1	99	107
880-19356-44	C-192,4.1	100	109
880-19356-45	C-193,4.1	108	108

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

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)
880-19356-46	C-194,4.1	105	101
880-19356-47	C-195,4.1	106	109
880-19356-48	C-196,4.1	99	109
880-19356-49	C-197,4.1	85	121
880-19356-50	C-198,4.1	90	107
880-19356-51	C-199,4.1	170 S1+	113
880-19356-52	C-200,4.1	166 S1+	97
880-19356-53	C-201,4.1	151 S1+	83
880-19356-54	C-202,0-4.1	164 S1+	107
880-19356-55	C-203,0-4.1	113	75
880-19356-56	C-204,0-4.1	71	76
880-19356-57	C-205,0-4.1	81	73
880-19356-58	C-206,1.5	172 S1+	122
880-19356-59	C-207,1.5	155 S1+	88
880-19356-59 MS	C-207,1.5	57 S1-	85
880-19356-59 MSD	C-207,1.5	93	67 S1-
880-19356-60	C-208,1.5	53 S1-	73
880-19356-61	C-209,1.5	95	80
880-19356-61 MS	C-209,1.5	93	81
880-19356-61 MSD	C-209,1.5	94	82
880-19356-62	C-210,1.5	97	94
880-19356-63	C-211,0-1.5	97	94
880-19356-64	C-212,0-1.5	99	72
880-19356-65	C-213,1.5	99	73
880-19356-66	C-214,1.5	106	81
880-19356-67	C-215,1.5	106	86
880-19356-68	C-216,1.5	105	81
880-19356-69	C-217,3.5	112	85
880-19356-70	C-218,3.5	109	84
880-19356-71	C-219,3.5	108	77
880-19356-72	C-220,3.5	101	69 S1-
880-19356-73	C-221,3.5	107	73
880-19356-74	C-222,35	113	84
880-19356-75	C-223,3.5	110	100
880-19356-76	C-224,3.5	104	104
880-19356-77	C-225,3.5	91	104
880-19356-78	C-226,0-3.5	108	74
880-19356-79	C-227,0-3.5	99	78
880-19356-80	C-228,0-3.5	101	77
880-19356-81	C-229,0-3.5	286 S1+	209 S1+
LCS 880-35203/1-A	Lab Control Sample	137 S1+	82
LCS 880-35204/1-A	Lab Control Sample	158 S1+	80
LCS 880-35205/1-A	Lab Control Sample	99	104
LCS 880-35209/1-A	Lab Control Sample	169 S1+	120
LCS 880-35444/1-A	Lab Control Sample	89	102
LCS 880-35605/1-A	Lab Control Sample	117	105
LCS 880-35745/1-A	Lab Control Sample	120	102
LCSD 880-35203/2-A	Lab Control Sample Dup	133 S1+	80
LCSD 880-35204/2-A	Lab Control Sample Dup	173 S1+	102
LCSD 880-35205/2-A	Lab Control Sample Dup	83	108

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

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)
LCSD 880-35209/2-A	Lab Control Sample Dup	141 S1+	117
LCSD 880-35444/2-A	Lab Control Sample Dup	78	109
LCSD 880-35605/2-A	Lab Control Sample Dup	126	107
LCSD 880-35745/2-A	Lab Control Sample Dup	128	95
MB 880-35203/5-A	Method Blank	101	73
MB 880-35204/5-A	Method Blank	134 S1+	92
MB 880-35205/5-A	Method Blank	104	113
MB 880-35209/5-A	Method Blank	131 S1+	90
MB 880-35293/5-A	Method Blank	99	86
MB 880-35444/5-A	Method Blank	105	119
MB 880-35605/5-A	Method Blank	102	87
MB 880-35745/5-A	Method Blank	104	87

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)
880-19356-1	C-138,4.1	90	84
880-19356-1 MS	C-138,4.1	88	77
880-19356-1 MSD	C-138,4.1	92	80
880-19356-2	C-139,4.1	86	80
880-19356-3	C-140,4.1	102	91
880-19356-4	C-141,4.1	85	76
880-19356-5	C-142,4.1	103	90
880-19356-6	C-143,4.1	100	91
880-19356-7	C-144,4.1	101	91
880-19356-8	C-145,4.1	102	93
880-19356-9	C-146,4.1	97	88
880-19356-10	C-147,4.1	93	86
880-19356-11	C-148,4.1	99	93
880-19356-12	C-149,4.1	90	83
880-19356-13	C-150,4.1	97	90
880-19356-14	C-151,4.1	84	75
880-19356-15	C-152,4.1	96	90
880-19356-16	C-153,0-4.1	102	96
880-19356-17	C-154,4.1	108	100
880-19356-18	C-155,0-4.1	98	90
880-19356-19	C-156,4.1	91	85
880-19356-20	C-157,0-4.1	96	89
880-19356-21	C-158,4.1	102	92
880-19356-21 MS	C-158,4.1	91	70
880-19356-21 MSD	C-158,4.1	90	69 S1-
880-19356-22	C-159,0-4.1	95	88
880-19356-23	C-160,4.1	114	103
880-19356-24	C-161,0-4.1	98	92

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

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)								
880-19356-25	C-162,4.1	118	103								
880-19356-26	C-163,0-4.1	98	91								
880-19356-27	C-164,4.1	96	90								
880-19356-28	C-165,0-4.1	110	96								
880-19356-29	C-166,4.1	122	111								
880-19356-30	C-167 0-4.1	104	94								
880-19356-31	C-168,4.1	98	91								
880-19356-32	C-170,4.1	124	111								
880-19356-33	C-172,4.1	94	88								
880-19356-34	C-174,4.1	112	98								
880-19356-35	C-176,4.1	98	92								
880-19356-36	C-178,4.1	109	98								
880-19356-37	C-180,4.1	109	95								
880-19356-38	C-182,4.1	93	83								
880-19356-39	C-184,4.1	111	100								
880-19356-40	C-186,4.1	119	102								
880-19356-41	C-188,4.1	102	111								
880-19356-41 MS	C-188,4.1	104	93								
880-19356-41 MSD	C-188,4.1	89	81								
880-19356-42	C-190,4.1	103	109								
880-19356-43	C-191,4.1	98	101								
880-19356-44	C-192,4.1	98	104								
880-19356-45	C-193,4.1	99	108								
880-19356-46	C-194,4.1	91	94								
880-19356-47	C-195,4.1	110	119								
880-19356-48	C-196,4.1	108	117								
880-19356-49	C-197,4.1	89	94								
880-19356-50	C-198,4.1	109	127								
880-19356-51	C-199,4.1	103	112								
880-19356-52	C-200,4.1	90	94								
880-19356-53	C-201,4.1	104	114								
880-19356-54	C-202,0-4.1	116	123								
880-19356-55	C-203,0-4.1	92	103								
880-19356-56	C-204,0-4.1	101	107								
880-19356-57	C-205,0-4.1	92	97								
880-19356-58	C-206,1.5	94	101								
880-19356-59	C-207,1.5	104	116								
880-19356-60	C-208,1.5	84	88								
880-19356-61	C-209,1.5	82	84								
880-19356-61 MS	C-209,1.5	83	74								
880-19356-61 MSD	C-209,1.5	85	75								
880-19356-62	C-210,1.5	112	115								
880-19356-63	C-211,0-1.5	104	109								
880-19356-64	C-212,0-1.5	87	90								
880-19356-65	C-213,1.5	93	95								
880-19356-66	C-214,1.5	92	92								
880-19356-67	C-215,1.5	95	96								
880-19356-68	C-216,1.5	96	99								
880-19356-69	C-217,3.5	101	107								
880-19356-70	C-218,3.5	98	104								

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

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)								
880-19356-71	C-219,3.5	87	92								
880-19356-72	C-220,3.5	98	104								
880-19356-73	C-221,3.5	93	98								
880-19356-74	C-222,35	95	101								
880-19356-75	C-223,3.5	91	97								
880-19356-76	C-224,3.5	90	93								
880-19356-77	C-225,3.5	109	113								
880-19356-78	C-226,0-3.5	99	106								
880-19356-79	C-227,0-3.5	100	102								
880-19356-80	C-228,0-3.5	106	115								
880-19356-81	C-229,0-3.5	79	86								
LCS 880-34927/2-A	Lab Control Sample	87	84								
LCS 880-34929/2-A	Lab Control Sample	80	85								
LCS 880-34939/2-A	Lab Control Sample	98	88								
LCS 880-34949/2-A	Lab Control Sample	100	99								
LCS 880-34950/2-A	Lab Control Sample	108	104								
LCSD 880-34927/3-A	Lab Control Sample Dup	90	84								
LCSD 880-34929/3-A	Lab Control Sample Dup	91	95								
LCSD 880-34939/3-A	Lab Control Sample Dup	91	86								
LCSD 880-34949/3-A	Lab Control Sample Dup	106	108								
LCSD 880-34950/3-A	Lab Control Sample Dup	92	89								
MB 880-34927/1-A	Method Blank	95	92								
MB 880-34929/1-A	Method Blank	109	128								
MB 880-34939/1-A	Method Blank	125	116								
MB 880-34949/1-A	Method Blank	107	121								
MB 880-34950/1-A	Method Blank	111	125								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35203/5-A
Matrix: Solid
Analysis Batch: 35330

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35203

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:10	09/25/22 14:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:10	09/25/22 14:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:10	09/25/22 14:16	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/22/22 16:10	09/25/22 14:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:10	09/25/22 14:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/22/22 16:10	09/25/22 14:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/22/22 16:10*	*09/25/22 14:16*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*09/22/22 16:10*	*09/25/22 14:16*	*1*

Lab Sample ID: LCS 880-35203/1-A
Matrix: Solid
Analysis Batch: 35330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35203

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1005		mg/Kg		101	70 - 130		
Toluene			0.100	0.09958		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.09332		mg/Kg		93	70 - 130		
m,p-Xylenes			0.200	0.1892		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09187		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: LCSD 880-35203/2-A
Matrix: Solid
Analysis Batch: 35330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35203

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1073		mg/Kg		107	70 - 130	7	35
Toluene			0.100	0.09716		mg/Kg		97	70 - 130	2	35
Ethylbenzene			0.100	0.09258		mg/Kg		93	70 - 130	1	35
m,p-Xylenes			0.200	0.1885		mg/Kg		94	70 - 130	0	35
o-Xylene			0.100	0.09149		mg/Kg		91	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

Lab Sample ID: MB 880-35204/5-A
Matrix: Solid
Analysis Batch: 35466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35204

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 12:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 12:34	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-35204/5-A
Matrix: Solid
Analysis Batch: 35466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35204

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 12:34	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/22/22 16:31	09/27/22 12:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:31	09/27/22 12:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/22/22 16:31	09/27/22 12:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*09/22/22 16:31*	*09/27/22 12:34*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*09/22/22 16:31*	*09/27/22 12:34*	*1*

Lab Sample ID: LCS 880-35204/1-A
Matrix: Solid
Analysis Batch: 35466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35204

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1043		mg/Kg		104	70 - 130		
Toluene			0.100	0.1020		mg/Kg		102	70 - 130		
Ethylbenzene			0.100	0.1103		mg/Kg		110	70 - 130		
m,p-Xylenes			0.200	0.2412		mg/Kg		121	70 - 130		
o-Xylene			0.100	0.1190		mg/Kg		119	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

Lab Sample ID: LCSD 880-35204/2-A
Matrix: Solid
Analysis Batch: 35466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35204

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09432		mg/Kg		94	70 - 130	10	35
Toluene			0.100	0.1128		mg/Kg		113	70 - 130	10	35
Ethylbenzene			0.100	0.1349	*+	mg/Kg		135	70 - 130	20	35
m,p-Xylenes			0.200	0.3113	*+	mg/Kg		156	70 - 130	25	35
o-Xylene			0.100	0.1485	*+	mg/Kg		149	70 - 130	22	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*173*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-19356-1 MS
Matrix: Solid
Analysis Batch: 35466

Client Sample ID: C-138,4.1
Prep Type: Total/NA
Prep Batch: 35204

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.0998	0.09410		mg/Kg		94	70 - 130		
Toluene	<0.00201	U	0.0998	0.08687		mg/Kg		86	70 - 130		
Ethylbenzene	<0.00201	U *+	0.0998	0.09236		mg/Kg		93	70 - 130		
m,p-Xylenes	<0.00402	U *+	0.200	0.1963		mg/Kg		98	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: 880-19356-1 MS
Matrix: Solid
Analysis Batch: 35466

Client Sample ID: C-138,4.1
Prep Type: Total/NA
Prep Batch: 35204

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00201	U *+	0.0998	0.09699		mg/Kg		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-19356-1 MSD
Matrix: Solid
Analysis Batch: 35466

Client Sample ID: C-138,4.1
Prep Type: Total/NA
Prep Batch: 35204

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.09735		mg/Kg		98	70 - 130	3	35
Toluene	<0.00201	U	0.0996	0.09094		mg/Kg		90	70 - 130	5	35
Ethylbenzene	<0.00201	U *+	0.0996	0.09661		mg/Kg		97	70 - 130	4	35
m,p-Xylenes	<0.00402	U *+	0.199	0.2049		mg/Kg		103	70 - 130	4	35
o-Xylene	<0.00201	U *+	0.0996	0.1014		mg/Kg		101	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-35205/5-A
Matrix: Solid
Analysis Batch: 35468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35205

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:33	09/27/22 22:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:33	09/27/22 22:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:33	09/27/22 22:52	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/22/22 16:33	09/27/22 22:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/22 16:33	09/27/22 22:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/22/22 16:33	09/27/22 22:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/22/22 16:33*	*09/27/22 22:52*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*09/22/22 16:33*	*09/27/22 22:52*	*1*

Lab Sample ID: LCS 880-35205/1-A
Matrix: Solid
Analysis Batch: 35468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09466		mg/Kg		95	70 - 130
Toluene	0.100	0.08810		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.08915		mg/Kg		89	70 - 130
m,p-Xylenes	0.200	0.1831		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09553		mg/Kg		96	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-35205/1-A
Matrix: Solid
Analysis Batch: 35468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35205

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-35205/2-A
Matrix: Solid
Analysis Batch: 35468

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35205

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.06689	*-	mg/Kg		67	70 - 130	34	35
Toluene			0.100	0.05870	*- *1	mg/Kg		59	70 - 130	40	35
Ethylbenzene			0.100	0.05829	*- *1	mg/Kg		58	70 - 130	42	35
m,p-Xylenes			0.200	0.1133	*- *1	mg/Kg		57	70 - 130	47	35
o-Xylene			0.100	0.05972	*- *1	mg/Kg		60	70 - 130	46	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-19356-21 MS
Matrix: Solid
Analysis Batch: 35468

Client Sample ID: C-158,4.1
Prep Type: Total/NA
Prep Batch: 35205

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U *- F1 F2	0.0998	0.02270	F1	mg/Kg		23	70 - 130		
Toluene	<0.00199	U *- *1 F1	0.0998	<0.00200	U F1	mg/Kg		0	70 - 130		
Ethylbenzene	<0.00199	U *- *1 F1 F2	0.0998	0.01493	F1	mg/Kg		15	70 - 130		
m,p-Xylenes	<0.00398	U *- *1 F1 F2	0.200	0.03227	F1	mg/Kg		16	70 - 130		
o-Xylene	<0.00199	U *- *1 F1	0.0998	0.02864	F1	mg/Kg		29	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-19356-21 MSD
Matrix: Solid
Analysis Batch: 35468

Client Sample ID: C-158,4.1
Prep Type: Total/NA
Prep Batch: 35205

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U *- F1 F2	0.101	0.03266	F1 F2	mg/Kg		32	70 - 130	36	35
Toluene	<0.00199	U *- *1 F1	0.101	0.02436	F1	mg/Kg		24	70 - 130	NC	35
Ethylbenzene	<0.00199	U *- *1 F1 F2	0.101	0.02496	F1 F2	mg/Kg		25	70 - 130	50	35
m,p-Xylenes	<0.00398	U *- *1 F1 F2	0.201	0.05147	F1 F2	mg/Kg		26	70 - 130	46	35
o-Xylene	<0.00199	U *- *1 F1	0.101	0.02912	F1	mg/Kg		29	70 - 130	2	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: 880-19356-21 MSD
Matrix: Solid
Analysis Batch: 35468

Client Sample ID: C-158,4.1
Prep Type: Total/NA
Prep Batch: 35205

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-35209/5-A
Matrix: Solid
Analysis Batch: 35466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35209

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/27/22 16:49	09/28/22 02:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/27/22 16:49	09/28/22 02:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/27/22 16:49	09/28/22 02:09	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/27/22 16:49	09/28/22 02:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/27/22 16:49	09/28/22 02:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/27/22 16:49	09/28/22 02:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	09/27/22 16:49	09/28/22 02:09	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/27/22 16:49	09/28/22 02:09	1

Lab Sample ID: LCS 880-35209/1-A
Matrix: Solid
Analysis Batch: 35466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35209

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09611		mg/Kg		96	70 - 130		
Toluene			0.100	0.1132		mg/Kg		113	70 - 130		
Ethylbenzene			0.100	0.1339	*+	mg/Kg		134	70 - 130		
m,p-Xylenes			0.200	0.2990	*+	mg/Kg		149	70 - 130		
o-Xylene			0.100	0.1476	*+	mg/Kg		148	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: LCSD 880-35209/2-A
Matrix: Solid
Analysis Batch: 35466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35209

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1072		mg/Kg		107	70 - 130	11	35
Toluene			0.100	0.1055		mg/Kg		105	70 - 130	7	35
Ethylbenzene			0.100	0.1148		mg/Kg		115	70 - 130	15	35
m,p-Xylenes			0.200	0.2476		mg/Kg		124	70 - 130	19	35
o-Xylene			0.100	0.1223		mg/Kg		122	70 - 130	19	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-35209/2-A
Matrix: Solid
Analysis Batch: 35466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35209

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-19356-59 MS
Matrix: Solid
Analysis Batch: 35466

Client Sample ID: C-207,1.5
Prep Type: Total/NA
Prep Batch: 35209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.100	0.02244	F1	mg/Kg		22	70 - 130
Toluene	<0.00201	U F1	0.100	0.03548	F1	mg/Kg		35	70 - 130
Ethylbenzene	<0.00201	U *+ F1 F2	0.100	0.03180	F1	mg/Kg		32	70 - 130
m,p-Xylenes	<0.00402	U *+ F1 F2	0.201	0.05059	F1	mg/Kg		25	70 - 130
o-Xylene	<0.00201	U *+ F1 F2	0.100	0.02538	F1	mg/Kg		25	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	57	S1-	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 880-19356-59 MSD
Matrix: Solid
Analysis Batch: 35466

Client Sample ID: C-207,1.5
Prep Type: Total/NA
Prep Batch: 35209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0990	0.02540	F1	mg/Kg		26	70 - 130	12	35
Toluene	<0.00201	U F1	0.0990	0.04509	F1	mg/Kg		46	70 - 130	24	35
Ethylbenzene	<0.00201	U *+ F1 F2	0.0990	0.05413	F1 F2	mg/Kg		55	70 - 130	52	35
m,p-Xylenes	<0.00402	U *+ F1 F2	0.198	0.09179	F1 F2	mg/Kg		46	70 - 130	58	35
o-Xylene	<0.00201	U *+ F1 F2	0.0990	0.04466	F1 F2	mg/Kg		45	70 - 130	55	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130

Lab Sample ID: MB 880-35293/5-A
Matrix: Solid
Analysis Batch: 35647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35293

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:39	09/29/22 11:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:39	09/29/22 11:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:39	09/29/22 11:20	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/23/22 15:39	09/29/22 11:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:39	09/29/22 11:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/23/22 15:39	09/29/22 11:20	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-35293/5-A
Matrix: Solid
Analysis Batch: 35647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35293

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/23/22 15:39	09/29/22 11:20	1
1,4-Difluorobenzene (Surr)	86		70 - 130	09/23/22 15:39	09/29/22 11:20	1

Lab Sample ID: MB 880-35444/5-A
Matrix: Solid
Analysis Batch: 35468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35444

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 11:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 11:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 11:17	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/26/22 16:11	09/27/22 11:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/26/22 16:11	09/27/22 11:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/26/22 16:11	09/27/22 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/26/22 16:11	09/27/22 11:17	1
1,4-Difluorobenzene (Surr)	119		70 - 130	09/26/22 16:11	09/27/22 11:17	1

Lab Sample ID: LCS 880-35444/1-A
Matrix: Solid
Analysis Batch: 35468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35444

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1093		mg/Kg		109	70 - 130		
Toluene			0.100	0.09446		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.09270		mg/Kg		93	70 - 130		
m,p-Xylenes			0.200	0.1890		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09446		mg/Kg		94	70 - 130		

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

Lab Sample ID: LCSD 880-35444/2-A
Matrix: Solid
Analysis Batch: 35468

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35444

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1078		mg/Kg		108	70 - 130	1	35
Toluene			0.100	0.08504		mg/Kg		85	70 - 130	10	35
Ethylbenzene			0.100	0.08150		mg/Kg		81	70 - 130	13	35
m,p-Xylenes			0.200	0.1649		mg/Kg		82	70 - 130	14	35
o-Xylene			0.100	0.08006		mg/Kg		80	70 - 130	17	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-35444/2-A
Matrix: Solid
Analysis Batch: 35468

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35444

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

Lab Sample ID: MB 880-35605/5-A
Matrix: Solid
Analysis Batch: 35647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35605

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/29/22 22:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/29/22 22:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/29/22 22:00	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/28/22 12:28	09/29/22 22:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 12:28	09/29/22 22:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 12:28	09/29/22 22:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/28/22 12:28	09/29/22 22:00	1
1,4-Difluorobenzene (Surr)	87		70 - 130	09/28/22 12:28	09/29/22 22:00	1

Lab Sample ID: LCS 880-35605/1-A
Matrix: Solid
Analysis Batch: 35647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35605

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1043		mg/Kg		104	70 - 130		
Toluene			0.100	0.09286		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.1004		mg/Kg		100	70 - 130		
m,p-Xylenes			0.200	0.2007		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.1153		mg/Kg		115	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-35605/2-A
Matrix: Solid
Analysis Batch: 35647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35605

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1015		mg/Kg		101	70 - 130	3	35
Toluene			0.100	0.09159		mg/Kg		92	70 - 130	1	35
Ethylbenzene			0.100	0.1035		mg/Kg		104	70 - 130	3	35
m,p-Xylenes			0.200	0.2065		mg/Kg		103	70 - 130	3	35
o-Xylene			0.100	0.1184		mg/Kg		118	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: 880-19356-61 MS
Matrix: Solid
Analysis Batch: 35647

Client Sample ID: C-209,1.5
Prep Type: Total/NA
Prep Batch: 35605

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.100	0.01790	F1	mg/Kg		18	70 - 130
Toluene	<0.00201	U F1	0.100	0.02336	F1	mg/Kg		23	70 - 130
Ethylbenzene	<0.00201	U F1	0.100	0.02302	F1	mg/Kg		23	70 - 130
m,p-Xylenes	<0.00402	U F1	0.200	0.04339	F1	mg/Kg		22	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.02563	F1	mg/Kg		26	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*

Lab Sample ID: 880-19356-61 MSD
Matrix: Solid
Analysis Batch: 35647

Client Sample ID: C-209,1.5
Prep Type: Total/NA
Prep Batch: 35605

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0998	0.02446	F1	mg/Kg		25	70 - 130	31	35
Toluene	<0.00201	U F1	0.0998	0.03112	F1	mg/Kg		31	70 - 130	28	35
Ethylbenzene	<0.00201	U F1	0.0998	0.03066	F1	mg/Kg		31	70 - 130	28	35
m,p-Xylenes	<0.00402	U F1	0.200	0.05813	F1	mg/Kg		29	70 - 130	29	35
o-Xylene	<0.00201	U F1	0.0998	0.03440	F1	mg/Kg		34	70 - 130	29	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: MB 880-35745/5-A
Matrix: Solid
Analysis Batch: 35744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35745

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 07:58	09/30/22 10:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 07:58	09/30/22 10:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 07:58	09/30/22 10:23	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/30/22 07:58	09/30/22 10:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 07:58	09/30/22 10:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/30/22 07:58	09/30/22 10:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/30/22 07:58*	*09/30/22 10:23*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*09/30/22 07:58*	*09/30/22 10:23*	*1*

Lab Sample ID: LCS 880-35745/1-A
Matrix: Solid
Analysis Batch: 35744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35745

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.08346		mg/Kg		83	70 - 130
Toluene			0.100	0.07921		mg/Kg		79	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-35745/1-A
Matrix: Solid
Analysis Batch: 35744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35745

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylbenzene			0.100	0.08765		mg/Kg		88	70 - 130		
m,p-Xylenes			0.200	0.1803		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.1018		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-35745/2-A
Matrix: Solid
Analysis Batch: 35744

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35745

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07504		mg/Kg		75	70 - 130	11	35
Toluene			0.100	0.08078		mg/Kg		81	70 - 130	2	35
Ethylbenzene			0.100	0.08938		mg/Kg		89	70 - 130	2	35
m,p-Xylenes			0.200	0.1897		mg/Kg		95	70 - 130	5	35
o-Xylene			0.100	0.1078		mg/Kg		108	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

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

Lab Sample ID: MB 880-34927/1-A
Matrix: Solid
Analysis Batch: 35005

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34927

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		09/20/22 10:00	09/21/22 10:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:00	09/21/22 10:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:00	09/21/22 10:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*09/20/22 10:00*	*09/21/22 10:02*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*09/20/22 10:00*	*09/21/22 10:02*	*1*

Lab Sample ID: LCS 880-34927/2-A
Matrix: Solid
Analysis Batch: 35005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34927

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	808.5		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	822.1		mg/Kg		82	70 - 130		

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-34927/2-A
Matrix: Solid
Analysis Batch: 35005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34927

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	87		70 - 130
o-Terphenyl (Surr)	84		70 - 130

Lab Sample ID: LCSD 880-34927/3-A
Matrix: Solid
Analysis Batch: 35005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	835.5		mg/Kg		84	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	815.9		mg/Kg		82	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	90		70 - 130
o-Terphenyl (Surr)	84		70 - 130

Lab Sample ID: 880-19356-1 MS
Matrix: Solid
Analysis Batch: 35005

Client Sample ID: C-138,4.1
Prep Type: Total/NA
Prep Batch: 34927

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 F2	996	760.6		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	951.0		mg/Kg		93	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	77		70 - 130

Lab Sample ID: 880-19356-1 MSD
Matrix: Solid
Analysis Batch: 35005

Client Sample ID: C-138,4.1
Prep Type: Total/NA
Prep Batch: 34927

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 F2	999	1075	F2	mg/Kg		108	70 - 130	34	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1005		mg/Kg		98	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	80		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-34929/1-A
Matrix: Solid
Analysis Batch: 35007

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34929

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		09/20/22 10:14	09/21/22 10:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 10:14	09/21/22 10:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 10:14	09/21/22 10:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*09/20/22 10:14*	*09/21/22 10:02*	*1*
o-Terphenyl (Surr)	*128*		*70 - 130*	*09/20/22 10:14*	*09/21/22 10:02*	*1*

Lab Sample ID: LCS 880-34929/2-A
Matrix: Solid
Analysis Batch: 35007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34929

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	895.3		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	842.4		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*80*		*70 - 130*
o-Terphenyl (Surr)	*85*		*70 - 130*

Lab Sample ID: LCSD 880-34929/3-A
Matrix: Solid
Analysis Batch: 35007

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34929

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	849.4		mg/Kg		85	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	969.8		mg/Kg		97	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*91*		*70 - 130*
o-Terphenyl (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 880-34939/1-A
Matrix: Solid
Analysis Batch: 35120

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34939

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		09/20/22 12:03	09/22/22 09:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 09:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 12:03	09/22/22 09:40	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-34939/1-A
Matrix: Solid
Analysis Batch: 35120

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34939

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	125		70 - 130	09/20/22 12:03	09/22/22 09:40	1
o-Terphenyl (Surr)	116		70 - 130	09/20/22 12:03	09/22/22 09:40	1

Lab Sample ID: LCS 880-34939/2-A
Matrix: Solid
Analysis Batch: 35120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	837.0		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	892.3		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	98		70 - 130
o-Terphenyl (Surr)	88		70 - 130

Lab Sample ID: LCSD 880-34939/3-A
Matrix: Solid
Analysis Batch: 35120

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34939

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	804.1		mg/Kg		80	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	858.2		mg/Kg		86	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	91		70 - 130
o-Terphenyl (Surr)	86		70 - 130

Lab Sample ID: 880-19356-21 MS
Matrix: Solid
Analysis Batch: 35120

Client Sample ID: C-158,4.1
Prep Type: Total/NA
Prep Batch: 34939

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	996	707.5		mg/Kg		71	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	763.5		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	91		70 - 130
o-Terphenyl (Surr)	70		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: 880-19356-21 MSD
Matrix: Solid
Analysis Batch: 35120

Client Sample ID: C-158,4.1
Prep Type: Total/NA
Prep Batch: 34939

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	711.7		mg/Kg		71	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	763.4		mg/Kg		73	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*90*		*70 - 130*
o-Terphenyl (Surr)	*69*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-34949/1-A
Matrix: Solid
Analysis Batch: 35122

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34949

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		09/20/22 14:26	09/22/22 09:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 09:40	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:26	09/22/22 09:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*09/20/22 14:26*	*09/22/22 09:40*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*09/20/22 14:26*	*09/22/22 09:40*	*1*

Lab Sample ID: LCS 880-34949/2-A
Matrix: Solid
Analysis Batch: 35122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34949

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1011		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	963.8		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*100*		*70 - 130*
o-Terphenyl (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-34949/3-A
Matrix: Solid
Analysis Batch: 35122

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34949

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1025		mg/Kg		103	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1047		mg/Kg		105	70 - 130	8	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-34949/3-A
Matrix: Solid
Analysis Batch: 35122

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34949

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	108		70 - 130

Lab Sample ID: 880-19356-41 MS
Matrix: Solid
Analysis Batch: 35122

Client Sample ID: C-188,4.1
Prep Type: Total/NA
Prep Batch: 34949

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	996	919.9		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1124		mg/Kg		111	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	93		70 - 130

Lab Sample ID: 880-19356-41 MSD
Matrix: Solid
Analysis Batch: 35122

Client Sample ID: C-188,4.1
Prep Type: Total/NA
Prep Batch: 34949

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	828.2		mg/Kg		81	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	987.8		mg/Kg		97	70 - 130	13	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	89		70 - 130
o-Terphenyl (Surr)	81		70 - 130

Lab Sample ID: MB 880-34950/1-A
Matrix: Solid
Analysis Batch: 34883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34950

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		09/20/22 14:30	09/20/22 19:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 14:30	09/20/22 19:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 14:30	09/20/22 19:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	09/20/22 14:30	09/20/22 19:03	1
o-Terphenyl (Surr)	125		70 - 130	09/20/22 14:30	09/20/22 19:03	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-34950/2-A
Matrix: Solid
Analysis Batch: 34883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34950

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1195		mg/Kg		120	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1121		mg/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*108*		*70 - 130*
o-Terphenyl (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-34950/3-A
Matrix: Solid
Analysis Batch: 34883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34950

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	951.2	*1	mg/Kg		95	70 - 130	23	20
Diesel Range Organics (Over C10-C28)			1000	942.7		mg/Kg		94	70 - 130	17	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*92*		*70 - 130*
o-Terphenyl (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-19356-61 MS
Matrix: Solid
Analysis Batch: 34883

Client Sample ID: C-209,1.5
Prep Type: Total/NA
Prep Batch: 34950

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 *1	996	987.8		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	104		996	888.7		mg/Kg		79	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*83*		*70 - 130*
o-Terphenyl (Surr)	*74*		*70 - 130*

Lab Sample ID: 880-19356-61 MSD
Matrix: Solid
Analysis Batch: 34883

Client Sample ID: C-209,1.5
Prep Type: Total/NA
Prep Batch: 34950

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 *1	999	1063		mg/Kg		104	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	104		999	917.7		mg/Kg		81	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*85*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

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

Lab Sample ID: 880-19356-61 MSD
Matrix: Solid
Analysis Batch: 34883

Client Sample ID: C-209,1.5
Prep Type: Total/NA
Prep Batch: 34950

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl (Surr)	75		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34961/1-A
Matrix: Solid
Analysis Batch: 35117

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			09/22/22 06:17	1

Lab Sample ID: LCS 880-34961/2-A
Matrix: Solid
Analysis Batch: 35117

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.8		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-34961/3-A
Matrix: Solid
Analysis Batch: 35117

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	267.7		mg/Kg		107	90 - 110	6	20

Lab Sample ID: MB 880-34986/1-A
Matrix: Solid
Analysis Batch: 35185

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			09/23/22 01:23	1

Lab Sample ID: LCS 880-34986/2-A
Matrix: Solid
Analysis Batch: 35185

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.8		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-34986/3-B
Matrix: Solid
Analysis Batch: 35185

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	253.0		mg/Kg		101	90 - 110	0	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-19356-1 MS
Matrix: Solid
Analysis Batch: 35185

Client Sample ID: C-138,4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	767	F1	249	923.0	F1	mg/Kg		63	90 - 110

Lab Sample ID: 880-19356-1 MSD
Matrix: Solid
Analysis Batch: 35185

Client Sample ID: C-138,4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	767	F1	249	922.7	F1	mg/Kg		63	90 - 110	0	20

Lab Sample ID: 880-19356-11 MS
Matrix: Solid
Analysis Batch: 35185

Client Sample ID: C-148,4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	440		248	679.9		mg/Kg		97	90 - 110

Lab Sample ID: 880-19356-11 MSD
Matrix: Solid
Analysis Batch: 35185

Client Sample ID: C-148,4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	440		248	679.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-34988/1-A
Matrix: Solid
Analysis Batch: 35186

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			09/23/22 04:13	1

Lab Sample ID: LCS 880-34988/2-A
Matrix: Solid
Analysis Batch: 35186

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-34988/3-A
Matrix: Solid
Analysis Batch: 35186

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	254.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-19356-21 MS
Matrix: Solid
Analysis Batch: 35186

Client Sample ID: C-158,4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1280		249	1455	4	mg/Kg		72	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-19356-21 MSD
Matrix: Solid
Analysis Batch: 35186

Client Sample ID: C-158,4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1280		249	1456	4	mg/Kg		72	90 - 110	0	20

Lab Sample ID: 880-19356-31 MS
Matrix: Solid
Analysis Batch: 35186

Client Sample ID: C-168,4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	358		250	607.4		mg/Kg		100	90 - 110

Lab Sample ID: 880-19356-31 MSD
Matrix: Solid
Analysis Batch: 35186

Client Sample ID: C-168,4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	358		250	606.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-34989/1-A
Matrix: Solid
Analysis Batch: 35187

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			09/22/22 16:36	1

Lab Sample ID: LCS 880-34989/2-A
Matrix: Solid
Analysis Batch: 35187

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	260.0		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-34989/3-A
Matrix: Solid
Analysis Batch: 35187

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	245.9		mg/Kg		98	90 - 110	6	20

Lab Sample ID: 880-19356-41 MS
Matrix: Solid
Analysis Batch: 35187

Client Sample ID: C-188,4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1370		1250	2550		mg/Kg		94	90 - 110

Lab Sample ID: 880-19356-41 MSD
Matrix: Solid
Analysis Batch: 35187

Client Sample ID: C-188,4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1370		1250	2702		mg/Kg		107	90 - 110	6	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-19356-51 MS
Matrix: Solid
Analysis Batch: 35187

Client Sample ID: C-199,4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	32.0		248	284.4		mg/Kg		102	90 - 110

Lab Sample ID: 880-19356-51 MSD
Matrix: Solid
Analysis Batch: 35187

Client Sample ID: C-199,4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	32.0		248	278.2		mg/Kg		99	90 - 110	2	20

Lab Sample ID: MB 880-34990/1-A
Matrix: Solid
Analysis Batch: 35189

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			09/22/22 22:54	1

Lab Sample ID: LCS 880-34990/2-A
Matrix: Solid
Analysis Batch: 35189

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	262.5		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-34990/3-A
Matrix: Solid
Analysis Batch: 35189

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	250.8		mg/Kg		100	90 - 110	5	20

Lab Sample ID: 880-19356-61 MS
Matrix: Solid
Analysis Batch: 35189

Client Sample ID: C-209,1.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	178	F1 F2	252	333.3	F1	mg/Kg		62	90 - 110

Lab Sample ID: 880-19356-61 MSD
Matrix: Solid
Analysis Batch: 35189

Client Sample ID: C-209,1.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	178	F1 F2	252	431.8	F2	mg/Kg		101	90 - 110	26	20

Lab Sample ID: 880-19356-71 MS
Matrix: Solid
Analysis Batch: 35189

Client Sample ID: C-219,3.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	53.6		250	294.4		mg/Kg		96	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-19356-71 MSD
Matrix: Solid
Analysis Batch: 35189

Client Sample ID: C-219,3.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	53.6		250	318.2		mg/Kg		106	90 - 110	8	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC VOA

Prep Batch: 35203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-1	C-138,4.1	Total/NA	Solid	5035	
880-19356-2	C-139,4.1	Total/NA	Solid	5035	
880-19356-3	C-140,4.1	Total/NA	Solid	5035	
MB 880-35203/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35203/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35203/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 35204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-4	C-141,4.1	Total/NA	Solid	5035	
880-19356-5	C-142,4.1	Total/NA	Solid	5035	
880-19356-6	C-143,4.1	Total/NA	Solid	5035	
880-19356-7	C-144,4.1	Total/NA	Solid	5035	
880-19356-8	C-145,4.1	Total/NA	Solid	5035	
880-19356-9	C-146,4.1	Total/NA	Solid	5035	
880-19356-10	C-147,4.1	Total/NA	Solid	5035	
880-19356-11	C-148,4.1	Total/NA	Solid	5035	
880-19356-12	C-149,4.1	Total/NA	Solid	5035	
880-19356-13	C-150,4.1	Total/NA	Solid	5035	
880-19356-14	C-151,4.1	Total/NA	Solid	5035	
880-19356-15	C-152,4.1	Total/NA	Solid	5035	
880-19356-16	C-153,0-4.1	Total/NA	Solid	5035	
880-19356-17	C-154,4.1	Total/NA	Solid	5035	
880-19356-18	C-155,0-4.1	Total/NA	Solid	5035	
880-19356-19	C-156,4.1	Total/NA	Solid	5035	
880-19356-20	C-157,0-4.1	Total/NA	Solid	5035	
MB 880-35204/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35204/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35204/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19356-1 MS	C-138,4.1	Total/NA	Solid	5035	
880-19356-1 MSD	C-138,4.1	Total/NA	Solid	5035	

Prep Batch: 35205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-21	C-158,4.1	Total/NA	Solid	5035	
880-19356-22	C-159,0-4.1	Total/NA	Solid	5035	
880-19356-23	C-160,4.1	Total/NA	Solid	5035	
880-19356-24	C-161,0-4.1	Total/NA	Solid	5035	
880-19356-25	C-162,4.1	Total/NA	Solid	5035	
880-19356-26	C-163,0-4.1	Total/NA	Solid	5035	
880-19356-27	C-164,4.1	Total/NA	Solid	5035	
880-19356-28	C-165,0-4.1	Total/NA	Solid	5035	
880-19356-29	C-166,4.1	Total/NA	Solid	5035	
880-19356-30	C-167 0-4.1	Total/NA	Solid	5035	
880-19356-31	C-168,4.1	Total/NA	Solid	5035	
880-19356-32	C-170,4.1	Total/NA	Solid	5035	
880-19356-33	C-172,4.1	Total/NA	Solid	5035	
880-19356-34	C-174,4.1	Total/NA	Solid	5035	
880-19356-35	C-176,4.1	Total/NA	Solid	5035	
880-19356-36	C-178,4.1	Total/NA	Solid	5035	
880-19356-37	C-180,4.1	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC VOA (Continued)

Prep Batch: 35205 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-38	C-182,4.1	Total/NA	Solid	5035	
880-19356-39	C-184,4.1	Total/NA	Solid	5035	
880-19356-40	C-186,4.1	Total/NA	Solid	5035	
MB 880-35205/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35205/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35205/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19356-21 MS	C-158,4.1	Total/NA	Solid	5035	
880-19356-21 MSD	C-158,4.1	Total/NA	Solid	5035	

Prep Batch: 35209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-51	C-199,4.1	Total/NA	Solid	5035	
880-19356-52	C-200,4.1	Total/NA	Solid	5035	
880-19356-53	C-201,4.1	Total/NA	Solid	5035	
880-19356-54	C-202,0-4.1	Total/NA	Solid	5035	
880-19356-55	C-203,0-4.1	Total/NA	Solid	5035	
880-19356-56	C-204,0-4.1	Total/NA	Solid	5035	
880-19356-57	C-205,0-4.1	Total/NA	Solid	5035	
880-19356-58	C-206,1.5	Total/NA	Solid	5035	
880-19356-59	C-207,1.5	Total/NA	Solid	5035	
880-19356-60	C-208,1.5	Total/NA	Solid	5035	
MB 880-35209/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35209/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35209/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19356-59 MS	C-207,1.5	Total/NA	Solid	5035	
880-19356-59 MSD	C-207,1.5	Total/NA	Solid	5035	

Prep Batch: 35293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35293/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 35330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-1	C-138,4.1	Total/NA	Solid	8021B	35203
880-19356-2	C-139,4.1	Total/NA	Solid	8021B	35203
880-19356-3	C-140,4.1	Total/NA	Solid	8021B	35203
MB 880-35203/5-A	Method Blank	Total/NA	Solid	8021B	35203
LCS 880-35203/1-A	Lab Control Sample	Total/NA	Solid	8021B	35203
LCSD 880-35203/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35203

Prep Batch: 35444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-41	C-188,4.1	Total/NA	Solid	5035	
880-19356-42	C-190,4.1	Total/NA	Solid	5035	
880-19356-43	C-191,4.1	Total/NA	Solid	5035	
880-19356-44	C-192,4.1	Total/NA	Solid	5035	
880-19356-45	C-193,4.1	Total/NA	Solid	5035	
880-19356-46	C-194,4.1	Total/NA	Solid	5035	
880-19356-47	C-195,4.1	Total/NA	Solid	5035	
880-19356-48	C-196,4.1	Total/NA	Solid	5035	
880-19356-49	C-197,4.1	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC VOA (Continued)

Prep Batch: 35444 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-50	C-198,4.1	Total/NA	Solid	5035	
MB 880-35444/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35444/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35444/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 35450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-1	C-138,4.1	Total/NA	Solid	Total BTEX	
880-19356-2	C-139,4.1	Total/NA	Solid	Total BTEX	
880-19356-3	C-140,4.1	Total/NA	Solid	Total BTEX	
880-19356-4	C-141,4.1	Total/NA	Solid	Total BTEX	
880-19356-5	C-142,4.1	Total/NA	Solid	Total BTEX	
880-19356-6	C-143,4.1	Total/NA	Solid	Total BTEX	
880-19356-7	C-144,4.1	Total/NA	Solid	Total BTEX	
880-19356-8	C-145,4.1	Total/NA	Solid	Total BTEX	
880-19356-9	C-146,4.1	Total/NA	Solid	Total BTEX	
880-19356-10	C-147,4.1	Total/NA	Solid	Total BTEX	
880-19356-11	C-148,4.1	Total/NA	Solid	Total BTEX	
880-19356-12	C-149,4.1	Total/NA	Solid	Total BTEX	
880-19356-13	C-150,4.1	Total/NA	Solid	Total BTEX	
880-19356-14	C-151,4.1	Total/NA	Solid	Total BTEX	
880-19356-15	C-152,4.1	Total/NA	Solid	Total BTEX	
880-19356-16	C-153,0-4.1	Total/NA	Solid	Total BTEX	
880-19356-17	C-154,4.1	Total/NA	Solid	Total BTEX	
880-19356-18	C-155,0-4.1	Total/NA	Solid	Total BTEX	
880-19356-19	C-156,4.1	Total/NA	Solid	Total BTEX	
880-19356-20	C-157,0-4.1	Total/NA	Solid	Total BTEX	
880-19356-21	C-158,4.1	Total/NA	Solid	Total BTEX	
880-19356-22	C-159,0-4.1	Total/NA	Solid	Total BTEX	
880-19356-23	C-160,4.1	Total/NA	Solid	Total BTEX	
880-19356-24	C-161,0-4.1	Total/NA	Solid	Total BTEX	
880-19356-25	C-162,4.1	Total/NA	Solid	Total BTEX	
880-19356-26	C-163,0-4.1	Total/NA	Solid	Total BTEX	
880-19356-27	C-164,4.1	Total/NA	Solid	Total BTEX	
880-19356-28	C-165,0-4.1	Total/NA	Solid	Total BTEX	
880-19356-29	C-166,4.1	Total/NA	Solid	Total BTEX	
880-19356-30	C-167 0-4.1	Total/NA	Solid	Total BTEX	
880-19356-31	C-168,4.1	Total/NA	Solid	Total BTEX	
880-19356-32	C-170,4.1	Total/NA	Solid	Total BTEX	
880-19356-33	C-172,4.1	Total/NA	Solid	Total BTEX	
880-19356-34	C-174,4.1	Total/NA	Solid	Total BTEX	
880-19356-35	C-176,4.1	Total/NA	Solid	Total BTEX	
880-19356-36	C-178,4.1	Total/NA	Solid	Total BTEX	
880-19356-37	C-180,4.1	Total/NA	Solid	Total BTEX	
880-19356-38	C-182,4.1	Total/NA	Solid	Total BTEX	
880-19356-39	C-184,4.1	Total/NA	Solid	Total BTEX	
880-19356-40	C-186,4.1	Total/NA	Solid	Total BTEX	
880-19356-41	C-188,4.1	Total/NA	Solid	Total BTEX	
880-19356-42	C-190,4.1	Total/NA	Solid	Total BTEX	
880-19356-43	C-191,4.1	Total/NA	Solid	Total BTEX	
880-19356-44	C-192,4.1	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC VOA (Continued)

Analysis Batch: 35450 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-45	C-193,4.1	Total/NA	Solid	Total BTEX	
880-19356-46	C-194,4.1	Total/NA	Solid	Total BTEX	
880-19356-47	C-195,4.1	Total/NA	Solid	Total BTEX	
880-19356-48	C-196,4.1	Total/NA	Solid	Total BTEX	
880-19356-49	C-197,4.1	Total/NA	Solid	Total BTEX	
880-19356-50	C-198,4.1	Total/NA	Solid	Total BTEX	
880-19356-51	C-199,4.1	Total/NA	Solid	Total BTEX	
880-19356-52	C-200,4.1	Total/NA	Solid	Total BTEX	
880-19356-53	C-201,4.1	Total/NA	Solid	Total BTEX	
880-19356-54	C-202,0-4.1	Total/NA	Solid	Total BTEX	
880-19356-55	C-203,0-4.1	Total/NA	Solid	Total BTEX	
880-19356-56	C-204,0-4.1	Total/NA	Solid	Total BTEX	
880-19356-57	C-205,0-4.1	Total/NA	Solid	Total BTEX	
880-19356-58	C-206,1.5	Total/NA	Solid	Total BTEX	
880-19356-59	C-207,1.5	Total/NA	Solid	Total BTEX	
880-19356-60	C-208,1.5	Total/NA	Solid	Total BTEX	
880-19356-61	C-209,1.5	Total/NA	Solid	Total BTEX	
880-19356-62	C-210,1.5	Total/NA	Solid	Total BTEX	
880-19356-63	C-211,0-1.5	Total/NA	Solid	Total BTEX	
880-19356-64	C-212,0-1.5	Total/NA	Solid	Total BTEX	
880-19356-65	C-213,1.5	Total/NA	Solid	Total BTEX	
880-19356-66	C-214,1.5	Total/NA	Solid	Total BTEX	
880-19356-67	C-215,1.5	Total/NA	Solid	Total BTEX	
880-19356-68	C-216,1.5	Total/NA	Solid	Total BTEX	
880-19356-69	C-217,3.5	Total/NA	Solid	Total BTEX	
880-19356-70	C-218,3.5	Total/NA	Solid	Total BTEX	
880-19356-71	C-219,3.5	Total/NA	Solid	Total BTEX	
880-19356-72	C-220,3.5	Total/NA	Solid	Total BTEX	
880-19356-73	C-221,3.5	Total/NA	Solid	Total BTEX	
880-19356-74	C-222,35	Total/NA	Solid	Total BTEX	
880-19356-75	C-223,3.5	Total/NA	Solid	Total BTEX	
880-19356-76	C-224,3.5	Total/NA	Solid	Total BTEX	
880-19356-77	C-225,3.5	Total/NA	Solid	Total BTEX	
880-19356-78	C-226,0-3.5	Total/NA	Solid	Total BTEX	
880-19356-79	C-227,0-3.5	Total/NA	Solid	Total BTEX	
880-19356-80	C-228,0-3.5	Total/NA	Solid	Total BTEX	
880-19356-81	C-229,0-3.5	Total/NA	Solid	Total BTEX	

Analysis Batch: 35466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-4	C-141,4.1	Total/NA	Solid	8021B	35204
880-19356-5	C-142,4.1	Total/NA	Solid	8021B	35204
880-19356-6	C-143,4.1	Total/NA	Solid	8021B	35204
880-19356-7	C-144,4.1	Total/NA	Solid	8021B	35204
880-19356-8	C-145,4.1	Total/NA	Solid	8021B	35204
880-19356-9	C-146,4.1	Total/NA	Solid	8021B	35204
880-19356-10	C-147,4.1	Total/NA	Solid	8021B	35204
880-19356-11	C-148,4.1	Total/NA	Solid	8021B	35204
880-19356-12	C-149,4.1	Total/NA	Solid	8021B	35204
880-19356-13	C-150,4.1	Total/NA	Solid	8021B	35204
880-19356-14	C-151,4.1	Total/NA	Solid	8021B	35204

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC VOA (Continued)

Analysis Batch: 35466 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-15	C-152,4.1	Total/NA	Solid	8021B	35204
880-19356-16	C-153,0-4.1	Total/NA	Solid	8021B	35204
880-19356-17	C-154,4.1	Total/NA	Solid	8021B	35204
880-19356-18	C-155,0-4.1	Total/NA	Solid	8021B	35204
880-19356-19	C-156,4.1	Total/NA	Solid	8021B	35204
880-19356-20	C-157,0-4.1	Total/NA	Solid	8021B	35204
880-19356-51	C-199,4.1	Total/NA	Solid	8021B	35209
880-19356-52	C-200,4.1	Total/NA	Solid	8021B	35209
880-19356-53	C-201,4.1	Total/NA	Solid	8021B	35209
880-19356-54	C-202,0-4.1	Total/NA	Solid	8021B	35209
880-19356-55	C-203,0-4.1	Total/NA	Solid	8021B	35209
880-19356-56	C-204,0-4.1	Total/NA	Solid	8021B	35209
880-19356-57	C-205,0-4.1	Total/NA	Solid	8021B	35209
880-19356-58	C-206,1.5	Total/NA	Solid	8021B	35209
880-19356-59	C-207,1.5	Total/NA	Solid	8021B	35209
880-19356-60	C-208,1.5	Total/NA	Solid	8021B	35209
MB 880-35204/5-A	Method Blank	Total/NA	Solid	8021B	35204
MB 880-35209/5-A	Method Blank	Total/NA	Solid	8021B	35209
LCS 880-35204/1-A	Lab Control Sample	Total/NA	Solid	8021B	35204
LCS 880-35209/1-A	Lab Control Sample	Total/NA	Solid	8021B	35209
LCSD 880-35204/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35204
LCSD 880-35209/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35209
880-19356-1 MS	C-138,4.1	Total/NA	Solid	8021B	35204
880-19356-1 MSD	C-138,4.1	Total/NA	Solid	8021B	35204
880-19356-59 MS	C-207,1.5	Total/NA	Solid	8021B	35209
880-19356-59 MSD	C-207,1.5	Total/NA	Solid	8021B	35209

Analysis Batch: 35468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-21	C-158,4.1	Total/NA	Solid	8021B	35205
880-19356-22	C-159,0-4.1	Total/NA	Solid	8021B	35205
880-19356-23	C-160,4.1	Total/NA	Solid	8021B	35205
880-19356-24	C-161,0-4.1	Total/NA	Solid	8021B	35205
880-19356-25	C-162,4.1	Total/NA	Solid	8021B	35205
880-19356-26	C-163,0-4.1	Total/NA	Solid	8021B	35205
880-19356-27	C-164,4.1	Total/NA	Solid	8021B	35205
880-19356-28	C-165,0-4.1	Total/NA	Solid	8021B	35205
880-19356-29	C-166,4.1	Total/NA	Solid	8021B	35205
880-19356-30	C-167 0-4.1	Total/NA	Solid	8021B	35205
880-19356-31	C-168,4.1	Total/NA	Solid	8021B	35205
880-19356-32	C-170,4.1	Total/NA	Solid	8021B	35205
880-19356-33	C-172,4.1	Total/NA	Solid	8021B	35205
880-19356-34	C-174,4.1	Total/NA	Solid	8021B	35205
880-19356-35	C-176,4.1	Total/NA	Solid	8021B	35205
880-19356-36	C-178,4.1	Total/NA	Solid	8021B	35205
880-19356-37	C-180,4.1	Total/NA	Solid	8021B	35205
880-19356-38	C-182,4.1	Total/NA	Solid	8021B	35205
880-19356-39	C-184,4.1	Total/NA	Solid	8021B	35205
880-19356-40	C-186,4.1	Total/NA	Solid	8021B	35205
880-19356-41	C-188,4.1	Total/NA	Solid	8021B	35444
880-19356-42	C-190,4.1	Total/NA	Solid	8021B	35444

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC VOA (Continued)

Analysis Batch: 35468 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-43	C-191,4.1	Total/NA	Solid	8021B	35444
880-19356-44	C-192,4.1	Total/NA	Solid	8021B	35444
880-19356-45	C-193,4.1	Total/NA	Solid	8021B	35444
880-19356-46	C-194,4.1	Total/NA	Solid	8021B	35444
880-19356-47	C-195,4.1	Total/NA	Solid	8021B	35444
880-19356-48	C-196,4.1	Total/NA	Solid	8021B	35444
880-19356-49	C-197,4.1	Total/NA	Solid	8021B	35444
880-19356-50	C-198,4.1	Total/NA	Solid	8021B	35444
MB 880-35205/5-A	Method Blank	Total/NA	Solid	8021B	35205
MB 880-35444/5-A	Method Blank	Total/NA	Solid	8021B	35444
LCS 880-35205/1-A	Lab Control Sample	Total/NA	Solid	8021B	35205
LCS 880-35444/1-A	Lab Control Sample	Total/NA	Solid	8021B	35444
LCSD 880-35205/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35205
LCSD 880-35444/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35444
880-19356-21 MS	C-158,4.1	Total/NA	Solid	8021B	35205
880-19356-21 MSD	C-158,4.1	Total/NA	Solid	8021B	35205

Prep Batch: 35605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-61	C-209,1.5	Total/NA	Solid	5035	
880-19356-62	C-210,1.5	Total/NA	Solid	5035	
880-19356-63	C-211,0-1.5	Total/NA	Solid	5035	
880-19356-64	C-212,0-1.5	Total/NA	Solid	5035	
880-19356-65	C-213,1.5	Total/NA	Solid	5035	
880-19356-66	C-214,1.5	Total/NA	Solid	5035	
880-19356-67	C-215,1.5	Total/NA	Solid	5035	
880-19356-68	C-216,1.5	Total/NA	Solid	5035	
880-19356-69	C-217,3.5	Total/NA	Solid	5035	
880-19356-70	C-218,3.5	Total/NA	Solid	5035	
880-19356-71	C-219,3.5	Total/NA	Solid	5035	
880-19356-72	C-220,3.5	Total/NA	Solid	5035	
880-19356-73	C-221,3.5	Total/NA	Solid	5035	
880-19356-74	C-222,35	Total/NA	Solid	5035	
880-19356-75	C-223,3.5	Total/NA	Solid	5035	
880-19356-76	C-224,3.5	Total/NA	Solid	5035	
880-19356-77	C-225,3.5	Total/NA	Solid	5035	
880-19356-78	C-226,0-3.5	Total/NA	Solid	5035	
880-19356-79	C-227,0-3.5	Total/NA	Solid	5035	
880-19356-80	C-228,0-3.5	Total/NA	Solid	5035	
MB 880-35605/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35605/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35605/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19356-61 MS	C-209,1.5	Total/NA	Solid	5035	
880-19356-61 MSD	C-209,1.5	Total/NA	Solid	5035	

Analysis Batch: 35647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-61	C-209,1.5	Total/NA	Solid	8021B	35605
880-19356-62	C-210,1.5	Total/NA	Solid	8021B	35605
880-19356-63	C-211,0-1.5	Total/NA	Solid	8021B	35605
880-19356-64	C-212,0-1.5	Total/NA	Solid	8021B	35605

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC VOA (Continued)

Analysis Batch: 35647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-65	C-213,1.5	Total/NA	Solid	8021B	35605
880-19356-66	C-214,1.5	Total/NA	Solid	8021B	35605
880-19356-67	C-215,1.5	Total/NA	Solid	8021B	35605
880-19356-68	C-216,1.5	Total/NA	Solid	8021B	35605
880-19356-69	C-217,3.5	Total/NA	Solid	8021B	35605
880-19356-70	C-218,3.5	Total/NA	Solid	8021B	35605
880-19356-71	C-219,3.5	Total/NA	Solid	8021B	35605
880-19356-72	C-220,3.5	Total/NA	Solid	8021B	35605
880-19356-73	C-221,3.5	Total/NA	Solid	8021B	35605
880-19356-74	C-222,35	Total/NA	Solid	8021B	35605
880-19356-75	C-223,3.5	Total/NA	Solid	8021B	35605
880-19356-76	C-224,3.5	Total/NA	Solid	8021B	35605
880-19356-77	C-225,3.5	Total/NA	Solid	8021B	35605
880-19356-78	C-226,0-3.5	Total/NA	Solid	8021B	35605
880-19356-79	C-227,0-3.5	Total/NA	Solid	8021B	35605
880-19356-80	C-228,0-3.5	Total/NA	Solid	8021B	35605
MB 880-35293/5-A	Method Blank	Total/NA	Solid	8021B	35293
MB 880-35605/5-A	Method Blank	Total/NA	Solid	8021B	35605
LCS 880-35605/1-A	Lab Control Sample	Total/NA	Solid	8021B	35605
LCSD 880-35605/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35605
880-19356-61 MS	C-209,1.5	Total/NA	Solid	8021B	35605
880-19356-61 MSD	C-209,1.5	Total/NA	Solid	8021B	35605

Analysis Batch: 35744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-81	C-229,0-3.5	Total/NA	Solid	8021B	35745
MB 880-35745/5-A	Method Blank	Total/NA	Solid	8021B	35745
LCS 880-35745/1-A	Lab Control Sample	Total/NA	Solid	8021B	35745
LCSD 880-35745/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35745

Prep Batch: 35745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-81	C-229,0-3.5	Total/NA	Solid	5035	
MB 880-35745/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35745/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35745/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 34883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-61	C-209,1.5	Total/NA	Solid	8015B NM	34950
880-19356-62	C-210,1.5	Total/NA	Solid	8015B NM	34950
880-19356-63	C-211,0-1.5	Total/NA	Solid	8015B NM	34950
880-19356-64	C-212,0-1.5	Total/NA	Solid	8015B NM	34950
880-19356-65	C-213,1.5	Total/NA	Solid	8015B NM	34950
880-19356-66	C-214,1.5	Total/NA	Solid	8015B NM	34950
880-19356-67	C-215,1.5	Total/NA	Solid	8015B NM	34950
880-19356-68	C-216,1.5	Total/NA	Solid	8015B NM	34950
880-19356-69	C-217,3.5	Total/NA	Solid	8015B NM	34950
880-19356-70	C-218,3.5	Total/NA	Solid	8015B NM	34950

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 34883 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-71	C-219,3.5	Total/NA	Solid	8015B NM	34950
880-19356-72	C-220,3.5	Total/NA	Solid	8015B NM	34950
880-19356-73	C-221,3.5	Total/NA	Solid	8015B NM	34950
880-19356-74	C-222,35	Total/NA	Solid	8015B NM	34950
880-19356-75	C-223,3.5	Total/NA	Solid	8015B NM	34950
880-19356-76	C-224,3.5	Total/NA	Solid	8015B NM	34950
880-19356-77	C-225,3.5	Total/NA	Solid	8015B NM	34950
MB 880-34950/1-A	Method Blank	Total/NA	Solid	8015B NM	34950
LCS 880-34950/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34950
LCSD 880-34950/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34950
880-19356-61 MS	C-209,1.5	Total/NA	Solid	8015B NM	34950
880-19356-61 MSD	C-209,1.5	Total/NA	Solid	8015B NM	34950

Prep Batch: 34927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-1	C-138,4.1	Total/NA	Solid	8015NM Prep	
880-19356-2	C-139,4.1	Total/NA	Solid	8015NM Prep	
880-19356-3	C-140,4.1	Total/NA	Solid	8015NM Prep	
880-19356-4	C-141,4.1	Total/NA	Solid	8015NM Prep	
880-19356-5	C-142,4.1	Total/NA	Solid	8015NM Prep	
880-19356-6	C-143,4.1	Total/NA	Solid	8015NM Prep	
880-19356-7	C-144,4.1	Total/NA	Solid	8015NM Prep	
880-19356-8	C-145,4.1	Total/NA	Solid	8015NM Prep	
880-19356-9	C-146,4.1	Total/NA	Solid	8015NM Prep	
880-19356-10	C-147,4.1	Total/NA	Solid	8015NM Prep	
880-19356-11	C-148,4.1	Total/NA	Solid	8015NM Prep	
880-19356-12	C-149,4.1	Total/NA	Solid	8015NM Prep	
880-19356-13	C-150,4.1	Total/NA	Solid	8015NM Prep	
880-19356-14	C-151,4.1	Total/NA	Solid	8015NM Prep	
880-19356-15	C-152,4.1	Total/NA	Solid	8015NM Prep	
880-19356-16	C-153,0-4.1	Total/NA	Solid	8015NM Prep	
880-19356-17	C-154,4.1	Total/NA	Solid	8015NM Prep	
880-19356-18	C-155,0-4.1	Total/NA	Solid	8015NM Prep	
880-19356-19	C-156,4.1	Total/NA	Solid	8015NM Prep	
880-19356-20	C-157,0-4.1	Total/NA	Solid	8015NM Prep	
MB 880-34927/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34927/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34927/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19356-1 MS	C-138,4.1	Total/NA	Solid	8015NM Prep	
880-19356-1 MSD	C-138,4.1	Total/NA	Solid	8015NM Prep	

Prep Batch: 34929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-78	C-226,0-3.5	Total/NA	Solid	8015NM Prep	
880-19356-79	C-227,0-3.5	Total/NA	Solid	8015NM Prep	
880-19356-80	C-228,0-3.5	Total/NA	Solid	8015NM Prep	
880-19356-81	C-229,0-3.5	Total/NA	Solid	8015NM Prep	
MB 880-34929/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34929/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34929/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC Semi VOA

Prep Batch: 34939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-21	C-158,4.1	Total/NA	Solid	8015NM Prep	
880-19356-22	C-159,0-4.1	Total/NA	Solid	8015NM Prep	
880-19356-23	C-160,4.1	Total/NA	Solid	8015NM Prep	
880-19356-24	C-161,0-4.1	Total/NA	Solid	8015NM Prep	
880-19356-25	C-162,4.1	Total/NA	Solid	8015NM Prep	
880-19356-26	C-163,0-4.1	Total/NA	Solid	8015NM Prep	
880-19356-27	C-164,4.1	Total/NA	Solid	8015NM Prep	
880-19356-28	C-165,0-4.1	Total/NA	Solid	8015NM Prep	
880-19356-29	C-166,4.1	Total/NA	Solid	8015NM Prep	
880-19356-30	C-167 0-4.1	Total/NA	Solid	8015NM Prep	
880-19356-31	C-168,4.1	Total/NA	Solid	8015NM Prep	
880-19356-32	C-170,4.1	Total/NA	Solid	8015NM Prep	
880-19356-33	C-172,4.1	Total/NA	Solid	8015NM Prep	
880-19356-34	C-174,4.1	Total/NA	Solid	8015NM Prep	
880-19356-35	C-176,4.1	Total/NA	Solid	8015NM Prep	
880-19356-36	C-178,4.1	Total/NA	Solid	8015NM Prep	
880-19356-37	C-180,4.1	Total/NA	Solid	8015NM Prep	
880-19356-38	C-182,4.1	Total/NA	Solid	8015NM Prep	
880-19356-39	C-184,4.1	Total/NA	Solid	8015NM Prep	
880-19356-40	C-186,4.1	Total/NA	Solid	8015NM Prep	
MB 880-34939/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34939/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34939/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19356-21 MS	C-158,4.1	Total/NA	Solid	8015NM Prep	
880-19356-21 MSD	C-158,4.1	Total/NA	Solid	8015NM Prep	

Prep Batch: 34949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-41	C-188,4.1	Total/NA	Solid	8015NM Prep	
880-19356-42	C-190,4.1	Total/NA	Solid	8015NM Prep	
880-19356-43	C-191,4.1	Total/NA	Solid	8015NM Prep	
880-19356-44	C-192,4.1	Total/NA	Solid	8015NM Prep	
880-19356-45	C-193,4.1	Total/NA	Solid	8015NM Prep	
880-19356-46	C-194,4.1	Total/NA	Solid	8015NM Prep	
880-19356-47	C-195,4.1	Total/NA	Solid	8015NM Prep	
880-19356-48	C-196,4.1	Total/NA	Solid	8015NM Prep	
880-19356-49	C-197,4.1	Total/NA	Solid	8015NM Prep	
880-19356-50	C-198,4.1	Total/NA	Solid	8015NM Prep	
880-19356-51	C-199,4.1	Total/NA	Solid	8015NM Prep	
880-19356-52	C-200,4.1	Total/NA	Solid	8015NM Prep	
880-19356-53	C-201,4.1	Total/NA	Solid	8015NM Prep	
880-19356-54	C-202,0-4.1	Total/NA	Solid	8015NM Prep	
880-19356-55	C-203,0-4.1	Total/NA	Solid	8015NM Prep	
880-19356-56	C-204,0-4.1	Total/NA	Solid	8015NM Prep	
880-19356-57	C-205,0-4.1	Total/NA	Solid	8015NM Prep	
880-19356-58	C-206,1.5	Total/NA	Solid	8015NM Prep	
880-19356-59	C-207,1.5	Total/NA	Solid	8015NM Prep	
880-19356-60	C-208,1.5	Total/NA	Solid	8015NM Prep	
MB 880-34949/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34949/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34949/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Prep Batch: 34949 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-41 MS	C-188,4.1	Total/NA	Solid	8015NM Prep	
880-19356-41 MSD	C-188,4.1	Total/NA	Solid	8015NM Prep	

Prep Batch: 34950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-61	C-209,1.5	Total/NA	Solid	8015NM Prep	
880-19356-62	C-210,1.5	Total/NA	Solid	8015NM Prep	
880-19356-63	C-211,0-1.5	Total/NA	Solid	8015NM Prep	
880-19356-64	C-212,0-1.5	Total/NA	Solid	8015NM Prep	
880-19356-65	C-213,1.5	Total/NA	Solid	8015NM Prep	
880-19356-66	C-214,1.5	Total/NA	Solid	8015NM Prep	
880-19356-67	C-215,1.5	Total/NA	Solid	8015NM Prep	
880-19356-68	C-216,1.5	Total/NA	Solid	8015NM Prep	
880-19356-69	C-217,3.5	Total/NA	Solid	8015NM Prep	
880-19356-70	C-218,3.5	Total/NA	Solid	8015NM Prep	
880-19356-71	C-219,3.5	Total/NA	Solid	8015NM Prep	
880-19356-72	C-220,3.5	Total/NA	Solid	8015NM Prep	
880-19356-73	C-221,3.5	Total/NA	Solid	8015NM Prep	
880-19356-74	C-222,35	Total/NA	Solid	8015NM Prep	
880-19356-75	C-223,3.5	Total/NA	Solid	8015NM Prep	
880-19356-76	C-224,3.5	Total/NA	Solid	8015NM Prep	
880-19356-77	C-225,3.5	Total/NA	Solid	8015NM Prep	
MB 880-34950/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34950/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34950/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19356-61 MS	C-209,1.5	Total/NA	Solid	8015NM Prep	
880-19356-61 MSD	C-209,1.5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-1	C-138,4.1	Total/NA	Solid	8015B NM	34927
880-19356-2	C-139,4.1	Total/NA	Solid	8015B NM	34927
880-19356-3	C-140,4.1	Total/NA	Solid	8015B NM	34927
880-19356-4	C-141,4.1	Total/NA	Solid	8015B NM	34927
880-19356-5	C-142,4.1	Total/NA	Solid	8015B NM	34927
880-19356-6	C-143,4.1	Total/NA	Solid	8015B NM	34927
880-19356-7	C-144,4.1	Total/NA	Solid	8015B NM	34927
880-19356-8	C-145,4.1	Total/NA	Solid	8015B NM	34927
880-19356-9	C-146,4.1	Total/NA	Solid	8015B NM	34927
880-19356-10	C-147,4.1	Total/NA	Solid	8015B NM	34927
880-19356-11	C-148,4.1	Total/NA	Solid	8015B NM	34927
880-19356-12	C-149,4.1	Total/NA	Solid	8015B NM	34927
880-19356-13	C-150,4.1	Total/NA	Solid	8015B NM	34927
880-19356-14	C-151,4.1	Total/NA	Solid	8015B NM	34927
880-19356-15	C-152,4.1	Total/NA	Solid	8015B NM	34927
880-19356-16	C-153,0-4.1	Total/NA	Solid	8015B NM	34927
880-19356-17	C-154,4.1	Total/NA	Solid	8015B NM	34927
880-19356-18	C-155,0-4.1	Total/NA	Solid	8015B NM	34927
880-19356-19	C-156,4.1	Total/NA	Solid	8015B NM	34927
880-19356-20	C-157,0-4.1	Total/NA	Solid	8015B NM	34927
MB 880-34927/1-A	Method Blank	Total/NA	Solid	8015B NM	34927

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 35005 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-34927/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34927
LCSD 880-34927/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34927
880-19356-1 MS	C-138,4.1	Total/NA	Solid	8015B NM	34927
880-19356-1 MSD	C-138,4.1	Total/NA	Solid	8015B NM	34927

Analysis Batch: 35007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-78	C-226,0-3.5	Total/NA	Solid	8015B NM	34929
880-19356-79	C-227,0-3.5	Total/NA	Solid	8015B NM	34929
880-19356-80	C-228,0-3.5	Total/NA	Solid	8015B NM	34929
880-19356-81	C-229,0-3.5	Total/NA	Solid	8015B NM	34929
MB 880-34929/1-A	Method Blank	Total/NA	Solid	8015B NM	34929
LCS 880-34929/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34929
LCSD 880-34929/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34929

Analysis Batch: 35056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-1	C-138,4.1	Total/NA	Solid	8015 NM	
880-19356-2	C-139,4.1	Total/NA	Solid	8015 NM	
880-19356-3	C-140,4.1	Total/NA	Solid	8015 NM	
880-19356-4	C-141,4.1	Total/NA	Solid	8015 NM	
880-19356-5	C-142,4.1	Total/NA	Solid	8015 NM	
880-19356-6	C-143,4.1	Total/NA	Solid	8015 NM	
880-19356-7	C-144,4.1	Total/NA	Solid	8015 NM	
880-19356-8	C-145,4.1	Total/NA	Solid	8015 NM	
880-19356-9	C-146,4.1	Total/NA	Solid	8015 NM	
880-19356-10	C-147,4.1	Total/NA	Solid	8015 NM	
880-19356-11	C-148,4.1	Total/NA	Solid	8015 NM	
880-19356-12	C-149,4.1	Total/NA	Solid	8015 NM	
880-19356-13	C-150,4.1	Total/NA	Solid	8015 NM	
880-19356-14	C-151,4.1	Total/NA	Solid	8015 NM	
880-19356-15	C-152,4.1	Total/NA	Solid	8015 NM	
880-19356-16	C-153,0-4.1	Total/NA	Solid	8015 NM	
880-19356-17	C-154,4.1	Total/NA	Solid	8015 NM	
880-19356-18	C-155,0-4.1	Total/NA	Solid	8015 NM	
880-19356-19	C-156,4.1	Total/NA	Solid	8015 NM	
880-19356-20	C-157,0-4.1	Total/NA	Solid	8015 NM	
880-19356-21	C-158,4.1	Total/NA	Solid	8015 NM	
880-19356-22	C-159,0-4.1	Total/NA	Solid	8015 NM	
880-19356-23	C-160,4.1	Total/NA	Solid	8015 NM	
880-19356-24	C-161,0-4.1	Total/NA	Solid	8015 NM	
880-19356-25	C-162,4.1	Total/NA	Solid	8015 NM	
880-19356-26	C-163,0-4.1	Total/NA	Solid	8015 NM	
880-19356-27	C-164,4.1	Total/NA	Solid	8015 NM	
880-19356-28	C-165,0-4.1	Total/NA	Solid	8015 NM	
880-19356-29	C-166,4.1	Total/NA	Solid	8015 NM	
880-19356-30	C-167 0-4.1	Total/NA	Solid	8015 NM	
880-19356-31	C-168,4.1	Total/NA	Solid	8015 NM	
880-19356-32	C-170,4.1	Total/NA	Solid	8015 NM	
880-19356-33	C-172,4.1	Total/NA	Solid	8015 NM	
880-19356-34	C-174,4.1	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 35056 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-35	C-176,4.1	Total/NA	Solid	8015 NM	
880-19356-36	C-178,4.1	Total/NA	Solid	8015 NM	
880-19356-37	C-180,4.1	Total/NA	Solid	8015 NM	
880-19356-38	C-182,4.1	Total/NA	Solid	8015 NM	
880-19356-39	C-184,4.1	Total/NA	Solid	8015 NM	
880-19356-40	C-186,4.1	Total/NA	Solid	8015 NM	
880-19356-41	C-188,4.1	Total/NA	Solid	8015 NM	
880-19356-42	C-190,4.1	Total/NA	Solid	8015 NM	
880-19356-43	C-191,4.1	Total/NA	Solid	8015 NM	
880-19356-44	C-192,4.1	Total/NA	Solid	8015 NM	
880-19356-45	C-193,4.1	Total/NA	Solid	8015 NM	
880-19356-46	C-194,4.1	Total/NA	Solid	8015 NM	
880-19356-47	C-195,4.1	Total/NA	Solid	8015 NM	
880-19356-48	C-196,4.1	Total/NA	Solid	8015 NM	
880-19356-49	C-197,4.1	Total/NA	Solid	8015 NM	
880-19356-50	C-198,4.1	Total/NA	Solid	8015 NM	
880-19356-51	C-199,4.1	Total/NA	Solid	8015 NM	
880-19356-52	C-200,4.1	Total/NA	Solid	8015 NM	
880-19356-53	C-201,4.1	Total/NA	Solid	8015 NM	
880-19356-54	C-202,0-4.1	Total/NA	Solid	8015 NM	
880-19356-55	C-203,0-4.1	Total/NA	Solid	8015 NM	
880-19356-56	C-204,0-4.1	Total/NA	Solid	8015 NM	
880-19356-57	C-205,0-4.1	Total/NA	Solid	8015 NM	
880-19356-58	C-206,1.5	Total/NA	Solid	8015 NM	
880-19356-59	C-207,1.5	Total/NA	Solid	8015 NM	
880-19356-60	C-208,1.5	Total/NA	Solid	8015 NM	
880-19356-61	C-209,1.5	Total/NA	Solid	8015 NM	
880-19356-62	C-210,1.5	Total/NA	Solid	8015 NM	
880-19356-63	C-211,0-1.5	Total/NA	Solid	8015 NM	
880-19356-64	C-212,0-1.5	Total/NA	Solid	8015 NM	
880-19356-65	C-213,1.5	Total/NA	Solid	8015 NM	
880-19356-66	C-214,1.5	Total/NA	Solid	8015 NM	
880-19356-67	C-215,1.5	Total/NA	Solid	8015 NM	
880-19356-68	C-216,1.5	Total/NA	Solid	8015 NM	
880-19356-69	C-217,3.5	Total/NA	Solid	8015 NM	
880-19356-70	C-218,3.5	Total/NA	Solid	8015 NM	
880-19356-71	C-219,3.5	Total/NA	Solid	8015 NM	
880-19356-72	C-220,3.5	Total/NA	Solid	8015 NM	
880-19356-73	C-221,3.5	Total/NA	Solid	8015 NM	
880-19356-74	C-222,35	Total/NA	Solid	8015 NM	
880-19356-75	C-223,3.5	Total/NA	Solid	8015 NM	
880-19356-76	C-224,3.5	Total/NA	Solid	8015 NM	
880-19356-77	C-225,3.5	Total/NA	Solid	8015 NM	
880-19356-78	C-226,0-3.5	Total/NA	Solid	8015 NM	
880-19356-79	C-227,0-3.5	Total/NA	Solid	8015 NM	
880-19356-80	C-228,0-3.5	Total/NA	Solid	8015 NM	
880-19356-81	C-229,0-3.5	Total/NA	Solid	8015 NM	

Analysis Batch: 35120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-21	C-158,4.1	Total/NA	Solid	8015B NM	34939

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 35120 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-22	C-159,0-4.1	Total/NA	Solid	8015B NM	34939
880-19356-23	C-160,4.1	Total/NA	Solid	8015B NM	34939
880-19356-24	C-161,0-4.1	Total/NA	Solid	8015B NM	34939
880-19356-25	C-162,4.1	Total/NA	Solid	8015B NM	34939
880-19356-26	C-163,0-4.1	Total/NA	Solid	8015B NM	34939
880-19356-27	C-164,4.1	Total/NA	Solid	8015B NM	34939
880-19356-28	C-165,0-4.1	Total/NA	Solid	8015B NM	34939
880-19356-29	C-166,4.1	Total/NA	Solid	8015B NM	34939
880-19356-30	C-167 0-4.1	Total/NA	Solid	8015B NM	34939
880-19356-31	C-168,4.1	Total/NA	Solid	8015B NM	34939
880-19356-32	C-170,4.1	Total/NA	Solid	8015B NM	34939
880-19356-33	C-172,4.1	Total/NA	Solid	8015B NM	34939
880-19356-34	C-174,4.1	Total/NA	Solid	8015B NM	34939
880-19356-35	C-176,4.1	Total/NA	Solid	8015B NM	34939
880-19356-36	C-178,4.1	Total/NA	Solid	8015B NM	34939
880-19356-37	C-180,4.1	Total/NA	Solid	8015B NM	34939
880-19356-38	C-182,4.1	Total/NA	Solid	8015B NM	34939
880-19356-39	C-184,4.1	Total/NA	Solid	8015B NM	34939
880-19356-40	C-186,4.1	Total/NA	Solid	8015B NM	34939
MB 880-34939/1-A	Method Blank	Total/NA	Solid	8015B NM	34939
LCS 880-34939/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34939
LCSD 880-34939/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34939
880-19356-21 MS	C-158,4.1	Total/NA	Solid	8015B NM	34939
880-19356-21 MSD	C-158,4.1	Total/NA	Solid	8015B NM	34939

Analysis Batch: 35122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-41	C-188,4.1	Total/NA	Solid	8015B NM	34949
880-19356-42	C-190,4.1	Total/NA	Solid	8015B NM	34949
880-19356-43	C-191,4.1	Total/NA	Solid	8015B NM	34949
880-19356-44	C-192,4.1	Total/NA	Solid	8015B NM	34949
880-19356-45	C-193,4.1	Total/NA	Solid	8015B NM	34949
880-19356-46	C-194,4.1	Total/NA	Solid	8015B NM	34949
880-19356-47	C-195,4.1	Total/NA	Solid	8015B NM	34949
880-19356-48	C-196,4.1	Total/NA	Solid	8015B NM	34949
880-19356-49	C-197,4.1	Total/NA	Solid	8015B NM	34949
880-19356-50	C-198,4.1	Total/NA	Solid	8015B NM	34949
880-19356-51	C-199,4.1	Total/NA	Solid	8015B NM	34949
880-19356-52	C-200,4.1	Total/NA	Solid	8015B NM	34949
880-19356-53	C-201,4.1	Total/NA	Solid	8015B NM	34949
880-19356-54	C-202,0-4.1	Total/NA	Solid	8015B NM	34949
880-19356-55	C-203,0-4.1	Total/NA	Solid	8015B NM	34949
880-19356-56	C-204,0-4.1	Total/NA	Solid	8015B NM	34949
880-19356-57	C-205,0-4.1	Total/NA	Solid	8015B NM	34949
880-19356-58	C-206,1.5	Total/NA	Solid	8015B NM	34949
880-19356-59	C-207,1.5	Total/NA	Solid	8015B NM	34949
880-19356-60	C-208,1.5	Total/NA	Solid	8015B NM	34949
MB 880-34949/1-A	Method Blank	Total/NA	Solid	8015B NM	34949
LCS 880-34949/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34949
LCSD 880-34949/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34949
880-19356-41 MS	C-188,4.1	Total/NA	Solid	8015B NM	34949

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 35122 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-41 MSD	C-188,4.1	Total/NA	Solid	8015B NM	34949

HPLC/IC

Leach Batch: 34961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-81	C-229,0-3.5	Soluble	Solid	DI Leach	
MB 880-34961/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34961/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34961/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 34986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-1	C-138,4.1	Soluble	Solid	DI Leach	
880-19356-2	C-139,4.1	Soluble	Solid	DI Leach	
880-19356-3	C-140,4.1	Soluble	Solid	DI Leach	
880-19356-4	C-141,4.1	Soluble	Solid	DI Leach	
880-19356-5	C-142,4.1	Soluble	Solid	DI Leach	
880-19356-6	C-143,4.1	Soluble	Solid	DI Leach	
880-19356-7	C-144,4.1	Soluble	Solid	DI Leach	
880-19356-8	C-145,4.1	Soluble	Solid	DI Leach	
880-19356-9	C-146,4.1	Soluble	Solid	DI Leach	
880-19356-10	C-147,4.1	Soluble	Solid	DI Leach	
880-19356-11	C-148,4.1	Soluble	Solid	DI Leach	
880-19356-12	C-149,4.1	Soluble	Solid	DI Leach	
880-19356-13	C-150,4.1	Soluble	Solid	DI Leach	
880-19356-14	C-151,4.1	Soluble	Solid	DI Leach	
880-19356-15	C-152,4.1	Soluble	Solid	DI Leach	
880-19356-16	C-153,0-4.1	Soluble	Solid	DI Leach	
880-19356-17	C-154,4.1	Soluble	Solid	DI Leach	
880-19356-18	C-155,0-4.1	Soluble	Solid	DI Leach	
880-19356-19	C-156,4.1	Soluble	Solid	DI Leach	
880-19356-20	C-157,0-4.1	Soluble	Solid	DI Leach	
MB 880-34986/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34986/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34986/3-B	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19356-1 MS	C-138,4.1	Soluble	Solid	DI Leach	
880-19356-1 MSD	C-138,4.1	Soluble	Solid	DI Leach	
880-19356-11 MS	C-148,4.1	Soluble	Solid	DI Leach	
880-19356-11 MSD	C-148,4.1	Soluble	Solid	DI Leach	

Leach Batch: 34988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-21	C-158,4.1	Soluble	Solid	DI Leach	
880-19356-22	C-159,0-4.1	Soluble	Solid	DI Leach	
880-19356-23	C-160,4.1	Soluble	Solid	DI Leach	
880-19356-24	C-161,0-4.1	Soluble	Solid	DI Leach	
880-19356-25	C-162,4.1	Soluble	Solid	DI Leach	
880-19356-26	C-163,0-4.1	Soluble	Solid	DI Leach	
880-19356-27	C-164,4.1	Soluble	Solid	DI Leach	
880-19356-28	C-165,0-4.1	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

HPLC/IC (Continued)

Leach Batch: 34988 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-29	C-166,4.1	Soluble	Solid	DI Leach	
880-19356-30	C-167 0-4.1	Soluble	Solid	DI Leach	
880-19356-31	C-168,4.1	Soluble	Solid	DI Leach	
880-19356-32	C-170,4.1	Soluble	Solid	DI Leach	
880-19356-33	C-172,4.1	Soluble	Solid	DI Leach	
880-19356-34	C-174,4.1	Soluble	Solid	DI Leach	
880-19356-35	C-176,4.1	Soluble	Solid	DI Leach	
880-19356-36	C-178,4.1	Soluble	Solid	DI Leach	
880-19356-37	C-180,4.1	Soluble	Solid	DI Leach	
880-19356-38	C-182,4.1	Soluble	Solid	DI Leach	
880-19356-39	C-184,4.1	Soluble	Solid	DI Leach	
880-19356-40	C-186,4.1	Soluble	Solid	DI Leach	
MB 880-34988/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34988/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34988/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19356-21 MS	C-158,4.1	Soluble	Solid	DI Leach	
880-19356-21 MSD	C-158,4.1	Soluble	Solid	DI Leach	
880-19356-31 MS	C-168,4.1	Soluble	Solid	DI Leach	
880-19356-31 MSD	C-168,4.1	Soluble	Solid	DI Leach	

Leach Batch: 34989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-41	C-188,4.1	Soluble	Solid	DI Leach	
880-19356-42	C-190,4.1	Soluble	Solid	DI Leach	
880-19356-43	C-191,4.1	Soluble	Solid	DI Leach	
880-19356-44	C-192,4.1	Soluble	Solid	DI Leach	
880-19356-45	C-193,4.1	Soluble	Solid	DI Leach	
880-19356-46	C-194,4.1	Soluble	Solid	DI Leach	
880-19356-47	C-195,4.1	Soluble	Solid	DI Leach	
880-19356-48	C-196,4.1	Soluble	Solid	DI Leach	
880-19356-49	C-197,4.1	Soluble	Solid	DI Leach	
880-19356-50	C-198,4.1	Soluble	Solid	DI Leach	
880-19356-51	C-199,4.1	Soluble	Solid	DI Leach	
880-19356-52	C-200,4.1	Soluble	Solid	DI Leach	
880-19356-53	C-201,4.1	Soluble	Solid	DI Leach	
880-19356-54	C-202,0-4.1	Soluble	Solid	DI Leach	
880-19356-55	C-203,0-4.1	Soluble	Solid	DI Leach	
880-19356-56	C-204,0-4.1	Soluble	Solid	DI Leach	
880-19356-57	C-205,0-4.1	Soluble	Solid	DI Leach	
880-19356-58	C-206,1.5	Soluble	Solid	DI Leach	
880-19356-59	C-207,1.5	Soluble	Solid	DI Leach	
880-19356-60	C-208,1.5	Soluble	Solid	DI Leach	
MB 880-34989/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34989/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34989/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19356-41 MS	C-188,4.1	Soluble	Solid	DI Leach	
880-19356-41 MSD	C-188,4.1	Soluble	Solid	DI Leach	
880-19356-51 MS	C-199,4.1	Soluble	Solid	DI Leach	
880-19356-51 MSD	C-199,4.1	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

HPLC/IC

Leach Batch: 34990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-61	C-209,1.5	Soluble	Solid	DI Leach	
880-19356-62	C-210,1.5	Soluble	Solid	DI Leach	
880-19356-63	C-211,0-1.5	Soluble	Solid	DI Leach	
880-19356-64	C-212,0-1.5	Soluble	Solid	DI Leach	
880-19356-65	C-213,1.5	Soluble	Solid	DI Leach	
880-19356-66	C-214,1.5	Soluble	Solid	DI Leach	
880-19356-67	C-215,1.5	Soluble	Solid	DI Leach	
880-19356-68	C-216,1.5	Soluble	Solid	DI Leach	
880-19356-69	C-217,3.5	Soluble	Solid	DI Leach	
880-19356-70	C-218,3.5	Soluble	Solid	DI Leach	
880-19356-71	C-219,3.5	Soluble	Solid	DI Leach	
880-19356-72	C-220,3.5	Soluble	Solid	DI Leach	
880-19356-73	C-221,3.5	Soluble	Solid	DI Leach	
880-19356-74	C-222,35	Soluble	Solid	DI Leach	
880-19356-75	C-223,3.5	Soluble	Solid	DI Leach	
880-19356-76	C-224,3.5	Soluble	Solid	DI Leach	
880-19356-77	C-225,3.5	Soluble	Solid	DI Leach	
880-19356-78	C-226,0-3.5	Soluble	Solid	DI Leach	
880-19356-79	C-227,0-3.5	Soluble	Solid	DI Leach	
880-19356-80	C-228,0-3.5	Soluble	Solid	DI Leach	
MB 880-34990/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34990/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34990/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19356-61 MS	C-209,1.5	Soluble	Solid	DI Leach	
880-19356-61 MSD	C-209,1.5	Soluble	Solid	DI Leach	
880-19356-71 MS	C-219,3.5	Soluble	Solid	DI Leach	
880-19356-71 MSD	C-219,3.5	Soluble	Solid	DI Leach	

Analysis Batch: 35117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-81	C-229,0-3.5	Soluble	Solid	300.0	34961
MB 880-34961/1-A	Method Blank	Soluble	Solid	300.0	34961
LCS 880-34961/2-A	Lab Control Sample	Soluble	Solid	300.0	34961
LCSD 880-34961/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34961

Analysis Batch: 35185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-1	C-138,4.1	Soluble	Solid	300.0	34986
880-19356-2	C-139,4.1	Soluble	Solid	300.0	34986
880-19356-3	C-140,4.1	Soluble	Solid	300.0	34986
880-19356-4	C-141,4.1	Soluble	Solid	300.0	34986
880-19356-5	C-142,4.1	Soluble	Solid	300.0	34986
880-19356-6	C-143,4.1	Soluble	Solid	300.0	34986
880-19356-7	C-144,4.1	Soluble	Solid	300.0	34986
880-19356-8	C-145,4.1	Soluble	Solid	300.0	34986
880-19356-9	C-146,4.1	Soluble	Solid	300.0	34986
880-19356-10	C-147,4.1	Soluble	Solid	300.0	34986
880-19356-11	C-148,4.1	Soluble	Solid	300.0	34986
880-19356-12	C-149,4.1	Soluble	Solid	300.0	34986
880-19356-13	C-150,4.1	Soluble	Solid	300.0	34986
880-19356-14	C-151,4.1	Soluble	Solid	300.0	34986

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

HPLC/IC (Continued)

Analysis Batch: 35185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-15	C-152,4.1	Soluble	Solid	300.0	34986
880-19356-16	C-153,0-4.1	Soluble	Solid	300.0	34986
880-19356-17	C-154,4.1	Soluble	Solid	300.0	34986
880-19356-18	C-155,0-4.1	Soluble	Solid	300.0	34986
880-19356-19	C-156,4.1	Soluble	Solid	300.0	34986
880-19356-20	C-157,0-4.1	Soluble	Solid	300.0	34986
MB 880-34986/1-A	Method Blank	Soluble	Solid	300.0	34986
LCS 880-34986/2-A	Lab Control Sample	Soluble	Solid	300.0	34986
LCSD 880-34986/3-B	Lab Control Sample Dup	Soluble	Solid	300.0	34986
880-19356-1 MS	C-138,4.1	Soluble	Solid	300.0	34986
880-19356-1 MSD	C-138,4.1	Soluble	Solid	300.0	34986
880-19356-11 MS	C-148,4.1	Soluble	Solid	300.0	34986
880-19356-11 MSD	C-148,4.1	Soluble	Solid	300.0	34986

Analysis Batch: 35186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-21	C-158,4.1	Soluble	Solid	300.0	34988
880-19356-22	C-159,0-4.1	Soluble	Solid	300.0	34988
880-19356-23	C-160,4.1	Soluble	Solid	300.0	34988
880-19356-24	C-161,0-4.1	Soluble	Solid	300.0	34988
880-19356-25	C-162,4.1	Soluble	Solid	300.0	34988
880-19356-26	C-163,0-4.1	Soluble	Solid	300.0	34988
880-19356-27	C-164,4.1	Soluble	Solid	300.0	34988
880-19356-28	C-165,0-4.1	Soluble	Solid	300.0	34988
880-19356-29	C-166,4.1	Soluble	Solid	300.0	34988
880-19356-30	C-167 0-4.1	Soluble	Solid	300.0	34988
880-19356-31	C-168,4.1	Soluble	Solid	300.0	34988
880-19356-32	C-170,4.1	Soluble	Solid	300.0	34988
880-19356-33	C-172,4.1	Soluble	Solid	300.0	34988
880-19356-34	C-174,4.1	Soluble	Solid	300.0	34988
880-19356-35	C-176,4.1	Soluble	Solid	300.0	34988
880-19356-36	C-178,4.1	Soluble	Solid	300.0	34988
880-19356-37	C-180,4.1	Soluble	Solid	300.0	34988
880-19356-38	C-182,4.1	Soluble	Solid	300.0	34988
880-19356-39	C-184,4.1	Soluble	Solid	300.0	34988
880-19356-40	C-186,4.1	Soluble	Solid	300.0	34988
MB 880-34988/1-A	Method Blank	Soluble	Solid	300.0	34988
LCS 880-34988/2-A	Lab Control Sample	Soluble	Solid	300.0	34988
LCSD 880-34988/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34988
880-19356-21 MS	C-158,4.1	Soluble	Solid	300.0	34988
880-19356-21 MSD	C-158,4.1	Soluble	Solid	300.0	34988
880-19356-31 MS	C-168,4.1	Soluble	Solid	300.0	34988
880-19356-31 MSD	C-168,4.1	Soluble	Solid	300.0	34988

Analysis Batch: 35187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-41	C-188,4.1	Soluble	Solid	300.0	34989
880-19356-42	C-190,4.1	Soluble	Solid	300.0	34989
880-19356-43	C-191,4.1	Soluble	Solid	300.0	34989
880-19356-44	C-192,4.1	Soluble	Solid	300.0	34989
880-19356-45	C-193,4.1	Soluble	Solid	300.0	34989

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

HPLC/IC (Continued)

Analysis Batch: 35187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-46	C-194,4.1	Soluble	Solid	300.0	34989
880-19356-47	C-195,4.1	Soluble	Solid	300.0	34989
880-19356-48	C-196,4.1	Soluble	Solid	300.0	34989
880-19356-49	C-197,4.1	Soluble	Solid	300.0	34989
880-19356-50	C-198,4.1	Soluble	Solid	300.0	34989
880-19356-51	C-199,4.1	Soluble	Solid	300.0	34989
880-19356-52	C-200,4.1	Soluble	Solid	300.0	34989
880-19356-53	C-201,4.1	Soluble	Solid	300.0	34989
880-19356-54	C-202,0-4.1	Soluble	Solid	300.0	34989
880-19356-55	C-203,0-4.1	Soluble	Solid	300.0	34989
880-19356-56	C-204,0-4.1	Soluble	Solid	300.0	34989
880-19356-57	C-205,0-4.1	Soluble	Solid	300.0	34989
880-19356-58	C-206,1.5	Soluble	Solid	300.0	34989
880-19356-59	C-207,1.5	Soluble	Solid	300.0	34989
880-19356-60	C-208,1.5	Soluble	Solid	300.0	34989
MB 880-34989/1-A	Method Blank	Soluble	Solid	300.0	34989
LCS 880-34989/2-A	Lab Control Sample	Soluble	Solid	300.0	34989
LCSD 880-34989/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34989
880-19356-41 MS	C-188,4.1	Soluble	Solid	300.0	34989
880-19356-41 MSD	C-188,4.1	Soluble	Solid	300.0	34989
880-19356-51 MS	C-199,4.1	Soluble	Solid	300.0	34989
880-19356-51 MSD	C-199,4.1	Soluble	Solid	300.0	34989

Analysis Batch: 35189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-61	C-209,1.5	Soluble	Solid	300.0	34990
880-19356-62	C-210,1.5	Soluble	Solid	300.0	34990
880-19356-63	C-211,0-1.5	Soluble	Solid	300.0	34990
880-19356-64	C-212,0-1.5	Soluble	Solid	300.0	34990
880-19356-65	C-213,1.5	Soluble	Solid	300.0	34990
880-19356-66	C-214,1.5	Soluble	Solid	300.0	34990
880-19356-67	C-215,1.5	Soluble	Solid	300.0	34990
880-19356-68	C-216,1.5	Soluble	Solid	300.0	34990
880-19356-69	C-217,3.5	Soluble	Solid	300.0	34990
880-19356-70	C-218,3.5	Soluble	Solid	300.0	34990
880-19356-71	C-219,3.5	Soluble	Solid	300.0	34990
880-19356-72	C-220,3.5	Soluble	Solid	300.0	34990
880-19356-73	C-221,3.5	Soluble	Solid	300.0	34990
880-19356-74	C-222,35	Soluble	Solid	300.0	34990
880-19356-75	C-223,3.5	Soluble	Solid	300.0	34990
880-19356-76	C-224,3.5	Soluble	Solid	300.0	34990
880-19356-77	C-225,3.5	Soluble	Solid	300.0	34990
880-19356-78	C-226,0-3.5	Soluble	Solid	300.0	34990
880-19356-79	C-227,0-3.5	Soluble	Solid	300.0	34990
880-19356-80	C-228,0-3.5	Soluble	Solid	300.0	34990
MB 880-34990/1-A	Method Blank	Soluble	Solid	300.0	34990
LCS 880-34990/2-A	Lab Control Sample	Soluble	Solid	300.0	34990
LCSD 880-34990/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34990
880-19356-61 MS	C-209,1.5	Soluble	Solid	300.0	34990
880-19356-61 MSD	C-209,1.5	Soluble	Solid	300.0	34990
880-19356-71 MS	C-219,3.5	Soluble	Solid	300.0	34990

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

HPLC/IC (Continued)

Analysis Batch: 35189 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19356-71 MSD	C-219,3.5	Soluble	Solid	300.0	34990

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-138,4.1
Date Collected: 09/14/22 09:02
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35203	09/22/22 16:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35330	09/26/22 08:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34927	09/20/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 11:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34986	09/20/22 15:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 01:38	CH	EET MID

Client Sample ID: C-139,4.1
Date Collected: 09/14/22 09:04
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35203	09/22/22 16:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35330	09/26/22 09:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 12:13	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34986	09/20/22 15:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 01:52	CH	EET MID

Client Sample ID: C-140,4.1
Date Collected: 09/14/22 09:06
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35203	09/22/22 16:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35330	09/26/22 09:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 12:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34986	09/20/22 15:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 01:57	CH	EET MID

Client Sample ID: C-141,4.1
Date Collected: 09/14/22 09:08
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-141,4.1
Date Collected: 09/14/22 09:08
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-4
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			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 12:56	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 02:02	CH	EET MID

Client Sample ID: C-142,4.1
Date Collected: 09/14/22 09:10
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 13:18	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 02:07	CH	EET MID

Client Sample ID: C-143,4.1
Date Collected: 09/14/22 09:12
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 13:39	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35185	09/23/22 02:21	CH	EET MID

Client Sample ID: C-144,4.1
Date Collected: 09/14/22 09:14
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 15:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 14:01	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-144,4.1
Date Collected: 09/14/22 09:14
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 02:26	CH	EET MID

Client Sample ID: C-145,4.1
Date Collected: 09/14/22 09:16
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 15:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 14:23	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 02:31	CH	EET MID

Client Sample ID: C-146,4.1
Date Collected: 09/14/22 09:18
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 15:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 14:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 02:36	CH	EET MID

Client Sample ID: C-147,4.1
Date Collected: 09/14/22 09:20
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 16:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 15:05	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 02:41	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-148,4.1
Date Collected: 09/14/22 09:22
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 20:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 15:48	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 02:46	CH	EET MID

Client Sample ID: C-149,4.1
Date Collected: 09/14/22 09:24
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 20:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 16:09	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 03:00	CH	EET MID

Client Sample ID: C-150,4.1
Date Collected: 09/14/22 09:26
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 20:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 16:31	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 03:05	CH	EET MID

Client Sample ID: C-151,4.1
Date Collected: 09/14/22 09:28
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 21:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-151,4.1
Date Collected: 09/14/22 09:28
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 16:52	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 03:20	CH	EET MID

Client Sample ID: C-152,4.1
Date Collected: 09/14/22 09:30
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 21:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 17:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 03:24	CH	EET MID

Client Sample ID: C-153,0-4.1
Date Collected: 09/14/22 09:32
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 22:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 17:35	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35185	09/23/22 03:29	CH	EET MID

Client Sample ID: C-154,4.1
Date Collected: 09/14/22 09:34
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 22:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 17:57	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-154,4.1
Date Collected: 09/14/22 09:34
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35185	09/23/22 03:34	CH	EET MID

Client Sample ID: C-155,0-4.1
Date Collected: 09/14/22 09:36
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 22:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 18:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35185	09/23/22 03:39	CH	EET MID

Client Sample ID: C-156,4.1
Date Collected: 09/14/22 09:38
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 23:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34927	09/20/22 10:01	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 18:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35185	09/23/22 03:44	CH	EET MID

Client Sample ID: C-157,0-4.1
Date Collected: 09/14/22 09:40
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35204	09/22/22 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/27/22 23:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34927	09/20/22 10:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35005	09/21/22 19:01	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34986	09/20/22 15:40	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35185	09/23/22 03:49	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-158,4.1
Date Collected: 09/14/22 09:42
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 23:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 10:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 04:27	CH	EET MID

Client Sample ID: C-159,0-4.1
Date Collected: 09/14/22 09:44
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 23:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 11:48	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 04:42	CH	EET MID

Client Sample ID: C-160,4.1
Date Collected: 09/14/22 09:46
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 00:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 12:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35186	09/23/22 04:47	CH	EET MID

Client Sample ID: C-161,0-4.1
Date Collected: 09/14/22 09:48
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 00:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-161,0-4.1
Date Collected: 09/14/22 09:48
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 12:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 04:52	CH	EET MID

Client Sample ID: C-162,4.1
Date Collected: 09/14/22 09:50
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 00:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 12:51	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 04:57	CH	EET MID

Client Sample ID: C-163,0-4.1
Date Collected: 09/14/22 09:52
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 01:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 13:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 05:11	CH	EET MID

Client Sample ID: C-164,4.1
Date Collected: 09/14/22 09:54
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 01:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 13:34	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-164,4.1
Date Collected: 09/14/22 09:54
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 05:16	CH	EET MID

Client Sample ID: C-165,0-4.1
Date Collected: 09/14/22 09:56
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 01:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 13:55	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 05:21	CH	EET MID

Client Sample ID: C-166,4.1
Date Collected: 09/14/22 09:58
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 02:04	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 14:16	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 05:26	CH	EET MID

Client Sample ID: C-167 0-4.1
Date Collected: 09/14/22 10:00
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 02:25	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 14:37	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	35186	09/23/22 05:31	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-168,4.1
Date Collected: 09/14/22 10:02
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 04:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 15:34	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 05:36	CH	EET MID

Client Sample ID: C-170,4.1
Date Collected: 09/14/22 10:06
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 04:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 15:55	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 05:50	CH	EET MID

Client Sample ID: C-172,4.1
Date Collected: 09/14/22 10:10
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 04:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 16:17	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 05:55	CH	EET MID

Client Sample ID: C-174,4.1
Date Collected: 09/14/22 10:14
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 05:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-174,4.1
Date Collected: 09/14/22 10:14
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-34
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			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 16:38	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 06:10	CH	EET MID

Client Sample ID: C-176,4.1
Date Collected: 09/14/22 10:18
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 05:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 17:00	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 06:15	CH	EET MID

Client Sample ID: C-178,4.1
Date Collected: 09/14/22 10:22
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 05:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 17:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35186	09/23/22 06:20	CH	EET MID

Client Sample ID: C-180,4.1
Date Collected: 09/14/22 12:30
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 06:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 17:43	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-180,4.1
Date Collected: 09/14/22 12:30
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 06:24	CH	EET MID

Client Sample ID: C-182,4.1
Date Collected: 09/14/22 12:35
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 06:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 18:05	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 06:29	CH	EET MID

Client Sample ID: C-184,4.1
Date Collected: 09/14/22 12:40
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 06:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 18:26	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35186	09/23/22 06:34	CH	EET MID

Client Sample ID: C-186,4.1
Date Collected: 09/14/22 12:50
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35205	09/22/22 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/28/22 07:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34939	09/20/22 12:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 18:48	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	34988	09/20/22 15:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35186	09/23/22 06:39	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-188,4.1
Date Collected: 09/14/22 12:52
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 16:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 10:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35187	09/22/22 16:52	CH	EET MID

Client Sample ID: C-190,4.1
Date Collected: 09/14/22 12:55
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 17:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 11:48	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35187	09/22/22 17:09	CH	EET MID

Client Sample ID: C-191,4.1
Date Collected: 09/14/22 12:59
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 17:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 12:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35187	09/22/22 17:14	CH	EET MID

Client Sample ID: C-192,4.1
Date Collected: 09/14/22 13:04
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 17:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-192,4.1
Date Collected: 09/14/22 13:04
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-44
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			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 12:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35187	09/22/22 17:19	CH	EET MID

Client Sample ID: C-193,4.1
Date Collected: 09/14/22 13:09
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 18:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 12:51	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 17:25	CH	EET MID

Client Sample ID: C-194,4.1
Date Collected: 09/14/22 13:18
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 18:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 13:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 20:50	CH	EET MID

Client Sample ID: C-195,4.1
Date Collected: 09/15/22 10:41
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 18:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 13:34	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-195,4.1
Date Collected: 09/15/22 10:41
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35187	09/22/22 20:55	CH	EET MID

Client Sample ID: C-196,4.1
Date Collected: 09/15/22 10:44
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 19:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 13:55	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35187	09/22/22 21:01	CH	EET MID

Client Sample ID: C-197,4.1
Date Collected: 09/15/22 10:47
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 19:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 14:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 21:06	CH	EET MID

Client Sample ID: C-198,4.1
Date Collected: 09/15/22 14:00
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-50
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 19:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 14:37	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 21:11	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-199,4.1
Date Collected: 09/15/22 14:04
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-51
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35209	09/27/22 16:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/28/22 03:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 15:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 21:17	CH	EET MID

Client Sample ID: C-200,4.1
Date Collected: 09/15/22 14:06
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-52
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35209	09/22/22 16:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/28/22 04:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 15:55	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 21:33	CH	EET MID

Client Sample ID: C-201,4.1
Date Collected: 09/15/22 14:09
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	35209	09/27/22 16:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/28/22 04:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 16:17	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 21:38	CH	EET MID

Client Sample ID: C-202,0-4.1
Date Collected: 09/15/22 14:15
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35209	09/27/22 16:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/28/22 04:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-202,0-4.1

Date Collected: 09/15/22 14:15
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-54

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			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 16:38	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 21:55	CH	EET MID

Client Sample ID: C-203,0-4.1

Date Collected: 09/15/22 14:18
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-55

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35209	09/27/22 16:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/28/22 05:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 17:00	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 22:00	CH	EET MID

Client Sample ID: C-204,0-4.1

Date Collected: 09/15/22 14:28
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-56

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35209	09/27/22 16:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/28/22 05:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 17:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 22:06	CH	EET MID

Client Sample ID: C-205,0-4.1

Date Collected: 09/15/22 14:29
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-57

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35209	09/27/22 16:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/28/22 07:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 17:43	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-205,0-4.1
Date Collected: 09/15/22 14:29
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 22:11	CH	EET MID

Client Sample ID: C-206,1.5
Date Collected: 09/16/22 10:44
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-58
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35209	09/27/22 16:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/28/22 07:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 18:05	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 22:16	CH	EET MID

Client Sample ID: C-207,1.5
Date Collected: 09/16/22 10:46
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-59
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35209	09/27/22 16:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/28/22 02:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 18:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 22:22	CH	EET MID

Client Sample ID: C-208,1.5
Date Collected: 09/16/22 10:48
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-60
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35209	09/27/22 16:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35466	09/28/22 02:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34949	09/20/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 18:48	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34989	09/20/22 15:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35187	09/22/22 22:27	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-209,1.5
Date Collected: 09/16/22 10:50
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-61
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/29/22 22:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/20/22 20:07	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/22/22 23:10	CH	EET MID

Client Sample ID: C-210,1.5
Date Collected: 09/16/22 10:54
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-62
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/29/22 22:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/20/22 21:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/22/22 23:27	CH	EET MID

Client Sample ID: C-211,0-1.5
Date Collected: 09/16/22 10:59
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-63
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/29/22 23:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/20/22 21:33	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/22/22 23:32	CH	EET MID

Client Sample ID: C-212,0-1.5
Date Collected: 09/16/22 11:03
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-64
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/29/22 23:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-212,0-1.5
Date Collected: 09/16/22 11:03
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-64
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			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/20/22 21:54	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/22/22 23:37	CH	EET MID

Client Sample ID: C-213,1.5
Date Collected: 09/16/22 11:06
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-65
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/29/22 23:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/20/22 22:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/22/22 23:43	CH	EET MID

Client Sample ID: C-214,1.5
Date Collected: 09/16/22 11:09
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-66
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 00:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/20/22 22:36	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/22/22 23:59	CH	EET MID

Client Sample ID: C-215,1.5
Date Collected: 09/16/22 11:15
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-67
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 00:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/20/22 22:58	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-215,1.5
Date Collected: 09/16/22 11:15
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-67
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 00:04	CH	EET MID

Client Sample ID: C-216,1.5
Date Collected: 09/16/22 11:30
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-68
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 00:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/20/22 23:19	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 00:10	CH	EET MID

Client Sample ID: C-217,3.5
Date Collected: 09/16/22 14:00
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-69
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 01:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/20/22 23:41	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 00:15	CH	EET MID

Client Sample ID: C-218,3.5
Date Collected: 09/16/22 14:04
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-70
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 01:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/21/22 00:02	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 00:20	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-219,3.5
Date Collected: 09/16/22 14:06
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-71
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 02:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/21/22 00:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 00:26	CH	EET MID

Client Sample ID: C-220,3.5
Date Collected: 09/16/22 14:08
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-72
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 03:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/21/22 01:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 00:42	CH	EET MID

Client Sample ID: C-221,3.5
Date Collected: 09/16/22 14:19
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-73
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 03:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/21/22 01:28	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 00:47	CH	EET MID

Client Sample ID: C-222,35
Date Collected: 09/16/22 14:25
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-74
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 03:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-222,35
Date Collected: 09/16/22 14:25
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-74
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			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/21/22 01:49	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 01:04	CH	EET MID

Client Sample ID: C-223,3.5
Date Collected: 09/16/22 14:30
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-75
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 04:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/21/22 02:10	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 01:09	CH	EET MID

Client Sample ID: C-224,3.5
Date Collected: 09/16/22 14:33
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-76
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 04:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/21/22 02:32	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 01:14	CH	EET MID

Client Sample ID: C-225,3.5
Date Collected: 09/16/22 14:36
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-77
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 04:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34950	09/20/22 14:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34883	09/21/22 02:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-225,3.5
Date Collected: 09/16/22 14:36
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-77
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 01:20	CH	EET MID

Client Sample ID: C-226,0-3.5
Date Collected: 09/16/22 14:39
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-78
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 05:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34929	09/20/22 10:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/21/22 17:14	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 01:25	CH	EET MID

Client Sample ID: C-227,0-3.5
Date Collected: 09/16/22 14:42
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-79
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 05:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34929	09/20/22 10:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/21/22 17:35	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 01:31	CH	EET MID

Client Sample ID: C-228,0-3.5
Date Collected: 09/16/22 14:44
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-80
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35605	09/28/22 12:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35647	09/30/22 05:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34929	09/20/22 10:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/21/22 17:57	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34990	09/20/22 15:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35189	09/23/22 01:36	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Client Sample ID: C-229,0-3.5

Date Collected: 09/16/22 14:48
Date Received: 09/19/22 09:50

Lab Sample ID: 880-19356-81

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35745	09/30/22 07:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	09/30/22 11:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35450	09/26/22 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			35056	09/21/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34929	09/20/22 10:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/21/22 18:18	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34961	09/20/22 14:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35117	09/22/22 07:32	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-19356-1
Project/Site: Limestone 1H SDG: 21-0100-24

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	T104704400-22-24	06-30-23

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: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-19356-1	C-138,4.1	Solid	09/14/22 09:02	09/19/22 09:50
880-19356-2	C-139,4.1	Solid	09/14/22 09:04	09/19/22 09:50
880-19356-3	C-140,4.1	Solid	09/14/22 09:06	09/19/22 09:50
880-19356-4	C-141,4.1	Solid	09/14/22 09:08	09/19/22 09:50
880-19356-5	C-142,4.1	Solid	09/14/22 09:10	09/19/22 09:50
880-19356-6	C-143,4.1	Solid	09/14/22 09:12	09/19/22 09:50
880-19356-7	C-144,4.1	Solid	09/14/22 09:14	09/19/22 09:50
880-19356-8	C-145,4.1	Solid	09/14/22 09:16	09/19/22 09:50
880-19356-9	C-146,4.1	Solid	09/14/22 09:18	09/19/22 09:50
880-19356-10	C-147,4.1	Solid	09/14/22 09:20	09/19/22 09:50
880-19356-11	C-148,4.1	Solid	09/14/22 09:22	09/19/22 09:50
880-19356-12	C-149,4.1	Solid	09/14/22 09:24	09/19/22 09:50
880-19356-13	C-150,4.1	Solid	09/14/22 09:26	09/19/22 09:50
880-19356-14	C-151,4.1	Solid	09/14/22 09:28	09/19/22 09:50
880-19356-15	C-152,4.1	Solid	09/14/22 09:30	09/19/22 09:50
880-19356-16	C-153,0-4.1	Solid	09/14/22 09:32	09/19/22 09:50
880-19356-17	C-154,4.1	Solid	09/14/22 09:34	09/19/22 09:50
880-19356-18	C-155,0-4.1	Solid	09/14/22 09:36	09/19/22 09:50
880-19356-19	C-156,4.1	Solid	09/14/22 09:38	09/19/22 09:50
880-19356-20	C-157,0-4.1	Solid	09/14/22 09:40	09/19/22 09:50
880-19356-21	C-158,4.1	Solid	09/14/22 09:42	09/19/22 09:50
880-19356-22	C-159,0-4.1	Solid	09/14/22 09:44	09/19/22 09:50
880-19356-23	C-160,4.1	Solid	09/14/22 09:46	09/19/22 09:50
880-19356-24	C-161,0-4.1	Solid	09/14/22 09:48	09/19/22 09:50
880-19356-25	C-162,4.1	Solid	09/14/22 09:50	09/19/22 09:50
880-19356-26	C-163,0-4.1	Solid	09/14/22 09:52	09/19/22 09:50
880-19356-27	C-164,4.1	Solid	09/14/22 09:54	09/19/22 09:50
880-19356-28	C-165,0-4.1	Solid	09/14/22 09:56	09/19/22 09:50
880-19356-29	C-166,4.1	Solid	09/14/22 09:58	09/19/22 09:50
880-19356-30	C-167 0-4.1	Solid	09/14/22 10:00	09/19/22 09:50
880-19356-31	C-168,4.1	Solid	09/14/22 10:02	09/19/22 09:50
880-19356-32	C-170,4.1	Solid	09/14/22 10:06	09/19/22 09:50
880-19356-33	C-172,4.1	Solid	09/14/22 10:10	09/19/22 09:50
880-19356-34	C-174,4.1	Solid	09/14/22 10:14	09/19/22 09:50
880-19356-35	C-176,4.1	Solid	09/14/22 10:18	09/19/22 09:50
880-19356-36	C-178,4.1	Solid	09/14/22 10:22	09/19/22 09:50
880-19356-37	C-180,4.1	Solid	09/14/22 12:30	09/19/22 09:50
880-19356-38	C-182,4.1	Solid	09/14/22 12:35	09/19/22 09:50
880-19356-39	C-184,4.1	Solid	09/14/22 12:40	09/19/22 09:50
880-19356-40	C-186,4.1	Solid	09/14/22 12:50	09/19/22 09:50
880-19356-41	C-188,4.1	Solid	09/14/22 12:52	09/19/22 09:50
880-19356-42	C-190,4.1	Solid	09/14/22 12:55	09/19/22 09:50
880-19356-43	C-191,4.1	Solid	09/14/22 12:59	09/19/22 09:50
880-19356-44	C-192,4.1	Solid	09/14/22 13:04	09/19/22 09:50
880-19356-45	C-193,4.1	Solid	09/14/22 13:09	09/19/22 09:50
880-19356-46	C-194,4.1	Solid	09/14/22 13:18	09/19/22 09:50
880-19356-47	C-195,4.1	Solid	09/15/22 10:41	09/19/22 09:50
880-19356-48	C-196,4.1	Solid	09/15/22 10:44	09/19/22 09:50
880-19356-49	C-197,4.1	Solid	09/15/22 10:47	09/19/22 09:50
880-19356-50	C-198,4.1	Solid	09/15/22 14:00	09/19/22 09:50
880-19356-51	C-199,4.1	Solid	09/15/22 14:04	09/19/22 09:50
880-19356-52	C-200,4.1	Solid	09/15/22 14:06	09/19/22 09:50
880-19356-53	C-201,4.1	Solid	09/15/22 14:09	09/19/22 09:50
880-19356-54	C-202,0-4.1	Solid	09/15/22 14:15	09/19/22 09:50
880-19356-55	C-203,0-4.1	Solid	09/15/22 14:18	09/19/22 09:50

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19356-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-19356-56	C-204,0-4.1	Solid	09/15/22 14:28	09/19/22 09:50
880-19356-57	C-205,0-4.1	Solid	09/15/22 14:29	09/19/22 09:50
880-19356-58	C-206,1.5	Solid	09/16/22 10:44	09/19/22 09:50
880-19356-59	C-207,1.5	Solid	09/16/22 10:46	09/19/22 09:50
880-19356-60	C-208,1.5	Solid	09/16/22 10:48	09/19/22 09:50
880-19356-61	C-209,1.5	Solid	09/16/22 10:50	09/19/22 09:50
880-19356-62	C-210,1.5	Solid	09/16/22 10:54	09/19/22 09:50
880-19356-63	C-211,0-1.5	Solid	09/16/22 10:59	09/19/22 09:50
880-19356-64	C-212,0-1.5	Solid	09/16/22 11:03	09/19/22 09:50
880-19356-65	C-213,1.5	Solid	09/16/22 11:06	09/19/22 09:50
880-19356-66	C-214,1.5	Solid	09/16/22 11:09	09/19/22 09:50
880-19356-67	C-215,1.5	Solid	09/16/22 11:15	09/19/22 09:50
880-19356-68	C-216,1.5	Solid	09/16/22 11:30	09/19/22 09:50
880-19356-69	C-217,3.5	Solid	09/16/22 14:00	09/19/22 09:50
880-19356-70	C-218,3.5	Solid	09/16/22 14:04	09/19/22 09:50
880-19356-71	C-219,3.5	Solid	09/16/22 14:06	09/19/22 09:50
880-19356-72	C-220,3.5	Solid	09/16/22 14:08	09/19/22 09:50
880-19356-73	C-221,3.5	Solid	09/16/22 14:19	09/19/22 09:50
880-19356-74	C-222,35	Solid	09/16/22 14:25	09/19/22 09:50
880-19356-75	C-223,3.5	Solid	09/16/22 14:30	09/19/22 09:50
880-19356-76	C-224,3.5	Solid	09/16/22 14:33	09/19/22 09:50
880-19356-77	C-225,3.5	Solid	09/16/22 14:36	09/19/22 09:50
880-19356-78	C-226,0-3.5	Solid	09/16/22 14:39	09/19/22 09:50
880-19356-79	C-227,0-3.5	Solid	09/16/22 14:42	09/19/22 09:50
880-19356-80	C-228,0-3.5	Solid	09/16/22 14:44	09/19/22 09:50
880-19356-81	C-229,0-3.5	Solid	09/16/22 14:48	09/19/22 09:50

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No. 2727

CHAIN-OF-CUSTODY

9/30/2022

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 9/19/2022 PAGE 1 OF 6

PO#: LAB WORK ORDER#: 19356

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT #: 21-0100-24 COLLECTOR: PM

TRRP report? ☐ Yes ☑ No

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

TIME ZONE
Time zone/State: MST / NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP VOC ☐	TCLP - METALS (RCRA) ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☑	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-138, 4.1		9/14/22	0902	S	1				X		X			X	X	X																								X			
C-139, 4.1			0904																																								
C-140, 4.1			0906																																								
C-141, 4.1			0908																																								
C-142, 4.1			0910																																								
C-143, 4.1			0912																																								
C-144, 4.1			0914																																								
C-145, 4.1			0916																																								
C-146, 4.1			0918																																								
C-147, 4.1			0920																																								
C-148, 4.1			0922																																								
C-149, 4.1			0924																																								
C-150, 4.1			0926																																								
C-151, 4.1			0928																																								
C-152, 4.1			0930																																								
TOTAL																																											

880-19356 Chain of Custody

	DATE/TIME	
RELINQUISHED BY (Signature)	9/19/22	RECEIVED BY (Signature) 0930
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 1.3/1.5 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

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No. 2728

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 9/19/2022 PAGE 2 OF 6

PO#: LAB WORK ORDER# 19356

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT #: 21-0100-24 COLLECTOR: PM

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX 8021 ☐ MTBE ☐	TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200 8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-153, 0-4.1		9/14/22	0932	S	1				X		X		X	X	X													X		
C-154, 4.1			0934																											
C-155, 0-4.1			0936																											
C-156, 4.1			0938																											
C-157, 0-4.1			0940																											
C-158, 4.1			0942																											
C-159, 0-4.1			0944																											
C-160, 4.1			0946																											
C-161, 0-4.1			0948																											
C-162, 4.1			0950																											
C-163, 0-4.1			0952																											
C-164, 4.1			0954																											
C-165, 0-4.1			0956																											
C-166, 4.1			0958																											
C-167, 0-4.1			1000																											
TOTAL																														

RELINQUISHED BY (Signature) DATE/TIME 9/19/22 RECEIVED BY (Signature) 0950

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 1.3 1.5 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Page 144 of 149

Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

9/30/2022

Page 552 of 840

No. 2730

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

DATE 9/19/2022 PAGE 3 OF 6

PO#. _____ LAB WORK ORDER# 19354

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT # 21-0100-24 COLLECTOR: AM

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ 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 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☒ MTBE ☐	TPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐	pH ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-168, 4.1		9/14/22	1002	S	1				X		X		X	X	X														X	
C-170, 4.1			1006																											
C-172, 4.1			1010																											
C-174, 4.1			1014																											
C-176, 4.1			1018																											
C-178, 4.1			1022																											
C-180, 4.1			1230																											
C-182, 4.1			1235																											
C-184, 4.1			1240																											
C-186, 4.1			1250																											
C-188, 4.1			1252																											
C-190, 4.1			1255																											
C-191, 4.1			1259																											
C-192, 4.1			1304																											
C-193, 4.1			1309																											
TOTAL																														

RELINQUISHED BY (Signature) DATE/TIME 9/19/22 RECEIVED BY (Signature) 0950

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 1-3/1.5 THERM# IR 6
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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Received by OCD: 4/10/2023 5:31:08 PM

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9/30/2022

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No. 2731

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 9/19/2022 PAGE 4 OF 6

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME Limestone 1H

LAI PROJECT #: 21-0100-24 COLLECTOR: PM

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/MDT

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

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

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-194, 4.1		9/14/22	1318	S	1				X		X	
C-195, 4.1		9/15/22	1041									
C-196, 4.1			1044									
C-197, 4.1			1047									
C-198, 4.1			1400									
C-199, 4.1			1404									
C-200, 4.1			1406									
C-201, 4.1			1409									
C-202, 0-4.1			1415									
C-203, 0-4.1			1418									
C-204, 0-4.1			1428									
C-205, 0-4.1			1429									
C-206, 1.5		9/16/22	1044									
C-207, 1.5			1046									
C-208, 1.5			1048									
TOTAL												

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 1.3/1.5 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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9/30/2022

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No. 2732

CHAIN-OF-CUSTODY

9/30/2022

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

DATE 9/19/2022 PAGE 5 OF 6

PO#: _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT # 21-0100-24 COLLECTOR: PM

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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

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

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	CHLORIDES	FIELD NOTES
C-209, 1.5		9/16/22	1050	S	1				X		X	X	X	X	X	
C-210, 1.5		"	1054	"	"				"		"	"	"	"	"	
C-211, 0-1.5		"	1059	"	"				"		"	"	"	"	"	
C-212, 0-1.5		"	1103	"	"				"		"	"	"	"	"	
C-213, 1.5		"	1106	"	"				"		"	"	"	"	"	
C-214, 1.5		"	1109	"	"				"		"	"	"	"	"	
C-215, 1.5		"	1115	"	"				"		"	"	"	"	"	
C-216, 1.5		"	1130	"	"				"		"	"	"	"	"	
C-217, 3.5		"	1400	"	"				"		"	"	"	"	"	
C-218, 3.5		"	1404	"	"				"		"	"	"	"	"	
C-219, 3.5		"	1406	"	"				"		"	"	"	"	"	
C-220, 3.5		"	1408	"	"				"		"	"	"	"	"	
C-221, 3.5		"	1419	"	"				"		"	"	"	"	"	
C-222, 3.5		"	1425	"	"				"		"	"	"	"	"	
C-223, 3.5		"	1430	"	"				"		"	"	"	"	"	
TOTAL																

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 1.3/1.5 THERM# IR5
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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No. 2734

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 9/19/2022 PAGE 6 OF 6

PO#: _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT #: 21-0100-24 COLLECTOR: PM

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ DW 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐	pH ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-224, 3.5		9/16/22	1433	S	1				X		X		X	X	X													X	
C-225, 3.5		↓	1436	↓	↓				↓		↓		↓	↓	↓													↓	
C-226, 0 3.5			1439																										
C-227, 0 3.5			1492																										
C-228, 0-3.5			1444																										
C-229, 0-3.5			1445																										
TOTAL																													

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 1-3/1.5 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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9/30/2022

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-19356-1
SDG Number: 21-0100-24

Login Number: 19356
List Number: 1
Creator: Teel, Brianna

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.	False	Received an extra jar for C-150 & C-193
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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-19424-1
Laboratory Sample Delivery Group: 21-0100-24
Client Project/Site: Limestone 1H

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

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
10/3/2022 5:53:40 PM

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
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: Limestone 1H

Laboratory Job ID: 880-19424-1
SDG: 21-0100-24

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

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
*1	LCS/LCSD 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.
¤	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: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Job ID: 880-19424-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-19424-1

Receipt
The samples were received on 9/20/2022 9:30 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 0.6º C.

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCSD 880-35620/2-A) and (880-19424-A-41-E MS). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35872 and analytical batch 880-35873 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35874 and analytical batch 880-35889 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: Surrogate recovery for the following samples were outside control limits: C-241, 1.5 (880-19424-12). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-35875/1-A), (LCSD 880-35875/2-A), (880-19424-A-31-F MS) and (880-19424-A-31-G MSD). 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-235, 1.5 (880-19424-6). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-35875/1-A) and (LCSD 880-35875/2-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.

GC Semi VOA
Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-34983/2-A) and (LCSD 880-34983/3-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-35018 and analytical batch 880-35120 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (880-19424-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-35015 and analytical batch 880-35218 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

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

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Job ID: 880-19424-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-230, 1.5

Date Collected: 09/19/22 11:00
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		10/01/22 09:43	10/01/22 12:08	1
Toluene	<0.00199	U F1 F2	0.00199		mg/Kg		10/01/22 09:43	10/01/22 12:08	1
Ethylbenzene	<0.00199	U F1 F2	0.00199		mg/Kg		10/01/22 09:43	10/01/22 12:08	1
m,p-Xylenes	<0.00398	U F1 F2	0.00398		mg/Kg		10/01/22 09:43	10/01/22 12:08	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		10/01/22 09:43	10/01/22 12:08	1
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		10/01/22 09:43	10/01/22 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*10/01/22 09:43*	*10/01/22 12:08*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*10/01/22 09:43*	*10/01/22 12:08*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 11:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 11:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*09/21/22 08:18*	*09/23/22 11:59*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*09/21/22 08:18*	*09/23/22 11:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2040**		25.2		mg/Kg			09/23/22 17:07	5

Client Sample ID: C-231, 1.5

Date Collected: 09/19/22 11:02
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 13:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 13:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 13:02	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/01/22 09:58	10/03/22 13:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 13:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/01/22 09:58	10/03/22 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*10/01/22 09:58*	*10/03/22 13:02*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/01/22 09:58*	*10/03/22 13:02*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-231, 1.5

Date Collected: 09/19/22 11:02
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-2

Matrix: Solid

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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 13:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 13:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/21/22 08:18*	*09/23/22 13:04*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*09/21/22 08:18*	*09/23/22 13:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**345**		4.97		mg/Kg			09/23/22 17:22	1

Client Sample ID: C-232, 1.5

Date Collected: 09/19/22 11:04
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:58	10/03/22 13:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:58	10/03/22 13:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:58	10/03/22 13:22	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		10/01/22 09:58	10/03/22 13:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:58	10/03/22 13:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/01/22 09:58	10/03/22 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*10/01/22 09:58*	*10/03/22 13:22*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*10/01/22 09:58*	*10/03/22 13:22*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 13:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 13:25	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-232, 1.5

Lab Sample ID: 880-19424-3
Date Collected: 09/19/22 11:04
Matrix: Solid
Date Received: 09/20/22 09:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*09/21/22 08:18*	*09/23/22 13:25*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/21/22 08:18*	*09/23/22 13:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**632**		4.96		mg/Kg			09/23/22 17:27	1

Client Sample ID: C-233, 1.5

Lab Sample ID: 880-19424-4
Date Collected: 09/19/22 11:07
Matrix: Solid
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:58	10/03/22 13:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:58	10/03/22 13:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:58	10/03/22 13:43	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		10/01/22 09:58	10/03/22 13:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:58	10/03/22 13:43	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/01/22 09:58	10/03/22 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*10/01/22 09:58*	*10/03/22 13:43*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*10/01/22 09:58*	*10/03/22 13:43*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 13:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 13:47	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*09/21/22 08:18*	*09/23/22 13:47*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*09/21/22 08:18*	*09/23/22 13:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		4.96		mg/Kg			09/23/22 17:31	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-234, 1.5

Date Collected: 09/19/22 11:10
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:58	10/03/22 14:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:58	10/03/22 14:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:58	10/03/22 14:03	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/01/22 09:58	10/03/22 14:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:58	10/03/22 14:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/01/22 09:58	10/03/22 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*10/01/22 09:58*	*10/03/22 14:03*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*10/01/22 09:58*	*10/03/22 14:03*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 14:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 14:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*09/21/22 08:18*	*09/23/22 14:08*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*09/21/22 08:18*	*09/23/22 14:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**826**		4.98		mg/Kg			09/23/22 17:36	1

Client Sample ID: C-235, 1.5

Date Collected: 09/19/22 11:12
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 14:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 14:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 14:24	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/01/22 09:58	10/03/22 14:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 14:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/01/22 09:58	10/03/22 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*10/01/22 09:58*	*10/03/22 14:24*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/01/22 09:58*	*10/03/22 14:24*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-235, 1.5

Lab Sample ID: 880-19424-6
Matrix: Solid
Date Collected: 09/19/22 11:12
Date Received: 09/20/22 09:30

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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 14:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 14:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*09/21/22 08:18*	*09/23/22 14:30*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*09/21/22 08:18*	*09/23/22 14:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**275**		5.00		mg/Kg			09/23/22 17:51	1

Client Sample ID: C-236, 1.5

Lab Sample ID: 880-19424-7
Matrix: Solid
Date Collected: 09/19/22 11:15
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 14:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 14:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 14:44	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/01/22 09:58	10/03/22 14:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 14:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/01/22 09:58	10/03/22 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*10/01/22 09:58*	*10/03/22 14:44*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*10/01/22 09:58*	*10/03/22 14:44*	*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			10/01/22 19:44	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			09/22/22 10:29	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 *1	49.8		mg/Kg		09/21/22 08:18	09/23/22 14:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/21/22 08:18	09/23/22 14:51	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-236, 1.5

Lab Sample ID: 880-19424-7
Matrix: Solid
Date Collected: 09/19/22 11:15
Date Received: 09/20/22 09:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/21/22 08:18	09/23/22 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/21/22 08:18*	*09/23/22 14:51*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*09/21/22 08:18*	*09/23/22 14:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1530**		25.0		mg/Kg			09/23/22 17:56	5

Client Sample ID: C-237, 1.5

Lab Sample ID: 880-19424-8
Matrix: Solid
Date Collected: 09/19/22 11:20
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 15:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 15:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 15:05	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/01/22 09:58	10/03/22 15:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 15:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/01/22 09:58	10/03/22 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*10/01/22 09:58*	*10/03/22 15:05*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*10/01/22 09:58*	*10/03/22 15:05*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 15:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 15:13	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*09/21/22 08:18*	*09/23/22 15:13*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*09/21/22 08:18*	*09/23/22 15:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**261**		5.03		mg/Kg			09/23/22 18:01	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-238, 1.5

Date Collected: 09/19/22 11:25
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-9

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 15:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 15:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 15:25	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/01/22 09:58	10/03/22 15:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 15:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/01/22 09:58	10/03/22 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*10/01/22 09:58*	*10/03/22 15:25*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*10/01/22 09:58*	*10/03/22 15:25*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 15:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 15:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*09/21/22 08:18*	*09/23/22 15:34*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*09/21/22 08:18*	*09/23/22 15:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**256**		4.99		mg/Kg			09/23/22 18:05	1

Client Sample ID: C-239, 1.5

Date Collected: 09/19/22 11:26
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 15:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 15:46	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/01/22 09:58	10/03/22 15:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 15:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/01/22 09:58	10/03/22 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*10/01/22 09:58*	*10/03/22 15:46*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*10/01/22 09:58*	*10/03/22 15:46*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-239, 1.5

Date Collected: 09/19/22 11:26
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-10

Matrix: Solid

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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 15:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 15:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*09/21/22 08:18*	*09/23/22 15:56*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*09/21/22 08:18*	*09/23/22 15:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		5.02		mg/Kg			09/23/22 18:10	1

Client Sample ID: C-240, 1.5

Date Collected: 09/19/22 11:30
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-11

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 02:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 02:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 02:07	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/01/22 09:52	10/03/22 02:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 02:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/01/22 09:52	10/03/22 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*10/01/22 09:52*	*10/03/22 02:07*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*10/01/22 09:52*	*10/03/22 02:07*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 16:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 16:39	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19424-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-240, 1.5 Lab Sample ID: 880-19424-11

Date Collected: 09/19/22 11:30 **Matrix: Solid**
Date Received: 09/20/22 09:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*09/21/22 08:18*	*09/23/22 16:39*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*09/21/22 08:18*	*09/23/22 16:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.3**		5.02		mg/Kg			09/23/22 18:15	1

Client Sample ID: C-241, 1.5 Lab Sample ID: 880-19424-12

Date Collected: 09/19/22 11:33 **Matrix: Solid**
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 22:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 22:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 22:10	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/01/22 09:52	10/02/22 22:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 22:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/01/22 09:52	10/02/22 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*10/01/22 09:52*	*10/02/22 22:10*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*10/01/22 09:52*	*10/02/22 22:10*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 17:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 17:01	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/21/22 08:18*	*09/23/22 17:01*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*09/21/22 08:18*	*09/23/22 17:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		25.0		mg/Kg			09/23/22 18:30	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-242, 1.5

Date Collected: 09/19/22 11:36
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:52	10/02/22 22:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:52	10/02/22 22:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:52	10/02/22 22:31	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		10/01/22 09:52	10/02/22 22:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:52	10/02/22 22:31	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/01/22 09:52	10/02/22 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*10/01/22 09:52*	*10/02/22 22:31*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*10/01/22 09:52*	*10/02/22 22:31*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 17:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 17:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*09/21/22 08:18*	*09/23/22 17:22*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/21/22 08:18*	*09/23/22 17:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**392**		5.03		mg/Kg			09/23/22 18:34	1

Client Sample ID: C-243, 0-1.5

Date Collected: 09/19/22 11:38
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 22:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 22:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 22:51	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/01/22 09:52	10/02/22 22:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 22:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/01/22 09:52	10/02/22 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*10/01/22 09:52*	*10/02/22 22:51*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*10/01/22 09:52*	*10/02/22 22:51*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-243, 0-1.5

Lab Sample ID: 880-19424-14
Matrix: Solid
Date Collected: 09/19/22 11:38
Date Received: 09/20/22 09:30

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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/21/22 08:18*	*09/23/22 17:44*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*09/21/22 08:18*	*09/23/22 17:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	289		5.05		mg/Kg			09/23/22 18:49	1

Client Sample ID: C-244, 0-1.5

Lab Sample ID: 880-19424-15
Matrix: Solid
Date Collected: 09/19/22 11:40
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 23:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 23:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 23:12	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/01/22 09:52	10/02/22 23:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 23:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/01/22 09:52	10/02/22 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*10/01/22 09:52*	*10/02/22 23:12*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*10/01/22 09:52*	*10/02/22 23:12*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 18:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 18:05	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-244, 0-1.5

Lab Sample ID: 880-19424-15
Matrix: Solid
Date Collected: 09/19/22 11:40
Date Received: 09/20/22 09:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*09/21/22 08:18*	*09/23/22 18:05*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*09/21/22 08:18*	*09/23/22 18:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**789**		4.97		mg/Kg			09/23/22 18:54	1

Client Sample ID: C-245, 2

Lab Sample ID: 880-19424-16
Matrix: Solid
Date Collected: 09/19/22 12:48
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 23:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 23:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 23:32	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/01/22 09:52	10/02/22 23:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/02/22 23:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/01/22 09:52	10/02/22 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*10/01/22 09:52*	*10/02/22 23:32*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*10/01/22 09:52*	*10/02/22 23:32*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 18:27	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*09/21/22 08:18*	*09/23/22 18:27*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*09/21/22 08:18*	*09/23/22 18:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.8**		4.99		mg/Kg			09/23/22 18:59	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-246, 2

Date Collected: 09/19/22 12:50
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-17

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:52	10/02/22 23:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:52	10/02/22 23:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:52	10/02/22 23:53	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		10/01/22 09:52	10/02/22 23:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:52	10/02/22 23:53	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/01/22 09:52	10/02/22 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*10/01/22 09:52*	*10/02/22 23:53*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*10/01/22 09:52*	*10/02/22 23:53*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 18:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 18:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*09/21/22 08:18*	*09/23/22 18:48*	*1*
o-Terphenyl (Surr)	*75*		*70 - 130*	*09/21/22 08:18*	*09/23/22 18:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		5.03		mg/Kg			09/23/22 19:04	1

Client Sample ID: C-247, 2

Date Collected: 09/19/22 12:52
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-18

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 00:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 00:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 00:13	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/01/22 09:52	10/03/22 00:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 00:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/01/22 09:52	10/03/22 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*10/01/22 09:52*	*10/03/22 00:13*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*10/01/22 09:52*	*10/03/22 00:13*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-247, 2

Date Collected: 09/19/22 12:52
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-18

Matrix: Solid

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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 19:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 19:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*09/21/22 08:18*	*09/23/22 19:10*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/21/22 08:18*	*09/23/22 19:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**124**		4.98		mg/Kg			09/23/22 19:08	1

Client Sample ID: C-248, 2

Date Collected: 09/19/22 12:54
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-19

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 00:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 00:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 00:33	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/01/22 09:52	10/03/22 00:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 00:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/01/22 09:52	10/03/22 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*10/01/22 09:52*	*10/03/22 00:33*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*10/01/22 09:52*	*10/03/22 00:33*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 19:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 19:31	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-248, 2

Lab Sample ID: 880-19424-19
Matrix: Solid
Date Collected: 09/19/22 12:54
Date Received: 09/20/22 09:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*09/21/22 08:18*	*09/23/22 19:31*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*09/21/22 08:18*	*09/23/22 19:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**148**		4.95		mg/Kg			09/23/22 19:13	1

Client Sample ID: C-249, 2

Lab Sample ID: 880-19424-20
Matrix: Solid
Date Collected: 09/19/22 12:58
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:52	10/03/22 00:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:52	10/03/22 00:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:52	10/03/22 00:54	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/01/22 09:52	10/03/22 00:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:52	10/03/22 00:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/01/22 09:52	10/03/22 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*10/01/22 09:52*	*10/03/22 00:54*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*10/01/22 09:52*	*10/03/22 00:54*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:18	09/23/22 19:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 19:53	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:18	09/23/22 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*09/21/22 08:18*	*09/23/22 19:53*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*09/21/22 08:18*	*09/23/22 19:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		5.04		mg/Kg			09/23/22 19:18	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-250, 2

Date Collected: 09/19/22 13:02
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-21

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		10/01/22 09:52	10/02/22 21:50	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		10/01/22 09:52	10/02/22 21:50	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		10/01/22 09:52	10/02/22 21:50	1
m,p-Xylenes	<0.00399	U F1	0.00399		mg/Kg		10/01/22 09:52	10/02/22 21:50	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		10/01/22 09:52	10/02/22 21:50	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		10/01/22 09:52	10/02/22 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*10/01/22 09:52*	*10/02/22 21:50*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/01/22 09:52*	*10/02/22 21:50*	*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			10/01/22 19:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**196**		49.9		mg/Kg			09/22/22 10:29	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		09/21/22 08:21	09/23/22 21:40	1
Diesel Range Organics (Over C10-C28)	**196**		49.9		mg/Kg		09/21/22 08:21	09/23/22 21:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/23/22 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*09/21/22 08:21*	*09/23/22 21:40*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*09/21/22 08:21*	*09/23/22 21:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**246**		4.97		mg/Kg			09/23/22 16:32	1

Client Sample ID: C-251, 2

Date Collected: 09/19/22 13:05
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-22

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:52	10/03/22 02:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:52	10/03/22 02:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:52	10/03/22 02:27	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		10/01/22 09:52	10/03/22 02:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:52	10/03/22 02:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/01/22 09:52	10/03/22 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*10/01/22 09:52*	*10/03/22 02:27*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*10/01/22 09:52*	*10/03/22 02:27*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-251, 2

Date Collected: 09/19/22 13:05
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-22

Matrix: Solid

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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/23/22 22:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/23/22 22:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/23/22 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*09/21/22 08:21*	*09/23/22 22:45*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*09/21/22 08:21*	*09/23/22 22:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.5**		4.95		mg/Kg			09/23/22 16:48	1

Client Sample ID: C-252, 2

Date Collected: 09/19/22 13:10
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-23

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 02:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 02:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 02:48	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/01/22 09:52	10/03/22 02:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 02:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/01/22 09:52	10/03/22 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*10/01/22 09:52*	*10/03/22 02:48*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*10/01/22 09:52*	*10/03/22 02:48*	*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			10/01/22 19:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**117**		50.0		mg/Kg			09/22/22 10:29	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		09/21/22 08:21	09/23/22 23:07	1
Diesel Range Organics (Over C10-C28)	**117**		50.0		mg/Kg		09/21/22 08:21	09/23/22 23:07	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-252, 2

Lab Sample ID: 880-19424-23
Matrix: Solid
Date Collected: 09/19/22 13:10
Date Received: 09/20/22 09:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/23/22 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*09/21/22 08:21*	*09/23/22 23:07*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*09/21/22 08:21*	*09/23/22 23:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**357**		5.02		mg/Kg			09/23/22 16:54	1

Client Sample ID: C-253, 2

Lab Sample ID: 880-19424-24
Matrix: Solid
Date Collected: 09/19/22 13:14
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 03:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 03:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 03:08	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/01/22 09:52	10/03/22 03:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 03:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/01/22 09:52	10/03/22 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*10/01/22 09:52*	*10/03/22 03:08*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/01/22 09:52*	*10/03/22 03:08*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/23/22 23:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/23/22 23:28	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/23/22 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*09/21/22 08:21*	*09/23/22 23:28*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*09/21/22 08:21*	*09/23/22 23:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.4**		5.01		mg/Kg			09/23/22 16:59	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-254, 2

Date Collected: 09/19/22 13:40
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-25

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 03:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 03:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 03:29	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/01/22 09:52	10/03/22 03:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 03:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/01/22 09:52	10/03/22 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*10/01/22 09:52*	*10/03/22 03:29*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/01/22 09:52*	*10/03/22 03:29*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/23/22 23:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/23/22 23:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/23/22 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*09/21/22 08:21*	*09/23/22 23:50*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*09/21/22 08:21*	*09/23/22 23:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1190**		5.01		mg/Kg			09/23/22 17:05	1

Client Sample ID: C-255, 4.1

Date Collected: 09/19/22 13:42
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-26

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 03:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 03:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 03:49	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/01/22 09:52	10/03/22 03:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 03:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/01/22 09:52	10/03/22 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*10/01/22 09:52*	*10/03/22 03:49*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/01/22 09:52*	*10/03/22 03:49*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19424-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-255, 4.1 Lab Sample ID: 880-19424-26

Date Collected: 09/19/22 13:42 **Matrix: Solid**
Date Received: 09/20/22 09:30

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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 00:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 00:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*124*		*70 - 130*	*09/21/22 08:21*	*09/24/22 00:12*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/21/22 08:21*	*09/24/22 00:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**659**		4.99		mg/Kg			09/23/22 17:21	1

Client Sample ID: C-256, 4.1 Lab Sample ID: 880-19424-27

Date Collected: 09/19/22 13:44 **Matrix: Solid**
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:52	10/03/22 04:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:52	10/03/22 04:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:52	10/03/22 04:10	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		10/01/22 09:52	10/03/22 04:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:52	10/03/22 04:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/01/22 09:52	10/03/22 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*10/01/22 09:52*	*10/03/22 04:10*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*10/01/22 09:52*	*10/03/22 04:10*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 00:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/21/22 08:21	09/24/22 00:33	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-256, 4.1

Date Collected: 09/19/22 13:44
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-27

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/21/22 08:21	09/24/22 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*09/21/22 08:21*	*09/24/22 00:33*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*09/21/22 08:21*	*09/24/22 00:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**127**		5.03		mg/Kg			09/23/22 17:26	1

Client Sample ID: C-257, 4.1

Date Collected: 09/19/22 13:47
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-28

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 04:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 04:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 04:30	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/01/22 09:52	10/03/22 04:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 04:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/01/22 09:52	10/03/22 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*10/01/22 09:52*	*10/03/22 04:30*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*10/01/22 09:52*	*10/03/22 04:30*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 00:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 00:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*09/21/22 08:21*	*09/24/22 00:55*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*09/21/22 08:21*	*09/24/22 00:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**177**		5.05		mg/Kg			09/23/22 17:32	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-258, 4.1

Date Collected: 09/19/22 13:49
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-29

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 04:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 04:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 04:51	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/01/22 09:52	10/03/22 04:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 04:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/01/22 09:52	10/03/22 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*10/01/22 09:52*	*10/03/22 04:51*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*10/01/22 09:52*	*10/03/22 04:51*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 01:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 01:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*09/21/22 08:21*	*09/24/22 01:17*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*09/21/22 08:21*	*09/24/22 01:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.2**		4.98		mg/Kg			09/23/22 17:37	1

Client Sample ID: C-259, 4.1

Date Collected: 09/19/22 13:51
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-30

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 05:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 05:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 05:11	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/01/22 09:52	10/03/22 05:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:52	10/03/22 05:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/01/22 09:52	10/03/22 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*10/01/22 09:52*	*10/03/22 05:11*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/01/22 09:52*	*10/03/22 05:11*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-259, 4.1

Date Collected: 09/19/22 13:51
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-30

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 01:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 01:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*09/21/22 08:21*	*09/24/22 01:38*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/21/22 08:21*	*09/24/22 01:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.4**		4.95		mg/Kg			09/23/22 17:42	1

Client Sample ID: C-260, 4.1

Date Collected: 09/19/22 13:59
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-31

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		10/01/22 09:58	10/03/22 08:15	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		10/01/22 09:58	10/03/22 08:15	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		10/01/22 09:58	10/03/22 08:15	1
m,p-Xylenes	<0.00398	U F1	0.00398		mg/Kg		10/01/22 09:58	10/03/22 08:15	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		10/01/22 09:58	10/03/22 08:15	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		10/01/22 09:58	10/03/22 08:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*10/01/22 09:58*	*10/03/22 08:15*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*10/01/22 09:58*	*10/03/22 08:15*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 02:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 02:21	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-260, 4.1

Lab Sample ID: 880-19424-31
Matrix: Solid
Date Collected: 09/19/22 13:59
Date Received: 09/20/22 09:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*126*		*70 - 130*	*09/21/22 08:21*	*09/24/22 02:21*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*09/21/22 08:21*	*09/24/22 02:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		5.02		mg/Kg			09/23/22 17:48	1

Client Sample ID: C-261, 4.1

Lab Sample ID: 880-19424-32
Matrix: Solid
Date Collected: 09/19/22 14:00
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:58	10/03/22 08:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:58	10/03/22 08:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:58	10/03/22 08:35	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/01/22 09:58	10/03/22 08:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:58	10/03/22 08:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/01/22 09:58	10/03/22 08:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*10/01/22 09:58*	*10/03/22 08:35*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*10/01/22 09:58*	*10/03/22 08:35*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 02:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 02:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*125*		*70 - 130*	*09/21/22 08:21*	*09/24/22 02:43*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*09/21/22 08:21*	*09/24/22 02:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.1**		4.99		mg/Kg			09/23/22 18:04	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-262, 4.1

Date Collected: 09/19/22 14:04
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-33

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:58	10/03/22 08:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:58	10/03/22 08:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:58	10/03/22 08:55	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		10/01/22 09:58	10/03/22 08:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:58	10/03/22 08:55	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/01/22 09:58	10/03/22 08:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*10/01/22 09:58*	*10/03/22 08:55*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*10/01/22 09:58*	*10/03/22 08:55*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 03:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 03:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*09/21/22 08:21*	*09/24/22 03:04*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*09/21/22 08:21*	*09/24/22 03:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.8**		5.00		mg/Kg			09/23/22 18:09	1

Client Sample ID: C-263, 4.1

Date Collected: 09/19/22 14:06
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-34

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 09:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 09:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 09:16	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/01/22 09:58	10/03/22 09:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 09:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/01/22 09:58	10/03/22 09:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*10/01/22 09:58*	*10/03/22 09:16*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*10/01/22 09:58*	*10/03/22 09:16*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-263, 4.1

Date Collected: 09/19/22 14:06
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-34

Matrix: Solid

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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 03:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 03:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*09/21/22 08:21*	*09/24/22 03:26*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/21/22 08:21*	*09/24/22 03:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**212**		5.00		mg/Kg			09/23/22 18:25	1

Client Sample ID: C-264, 4.1

Date Collected: 09/19/22 14:08
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-35

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 09:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 09:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 09:36	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/01/22 09:58	10/03/22 09:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 09:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/01/22 09:58	10/03/22 09:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*10/01/22 09:58*	*10/03/22 09:36*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*10/01/22 09:58*	*10/03/22 09:36*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 03:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 03:48	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19424-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-264, 4.1 Lab Sample ID: 880-19424-35

Date Collected: 09/19/22 14:08 **Matrix: Solid**
Date Received: 09/20/22 09:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*126*		*70 - 130*	*09/21/22 08:21*	*09/24/22 03:48*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*09/21/22 08:21*	*09/24/22 03:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**265**		4.98		mg/Kg			09/23/22 18:31	1

Client Sample ID: C-265, 4.1 Lab Sample ID: 880-19424-36

Date Collected: 09/19/22 14:10 **Matrix: Solid**
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 09:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 09:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 09:57	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/01/22 09:58	10/03/22 09:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 09:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/01/22 09:58	10/03/22 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*10/01/22 09:58*	*10/03/22 09:57*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*10/01/22 09:58*	*10/03/22 09:57*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 04:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 04:09	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*09/21/22 08:21*	*09/24/22 04:09*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*09/21/22 08:21*	*09/24/22 04:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.8**		5.02		mg/Kg			09/23/22 18:36	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-267, 4.1

Date Collected: 09/19/22 14:12
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-37

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 10:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 10:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 10:17	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/01/22 09:58	10/03/22 10:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 10:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/01/22 09:58	10/03/22 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*10/01/22 09:58*	*10/03/22 10:17*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*10/01/22 09:58*	*10/03/22 10:17*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 04:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 04:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*09/21/22 08:21*	*09/24/22 04:31*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*09/21/22 08:21*	*09/24/22 04:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.7**		5.01		mg/Kg			09/23/22 18:42	1

Client Sample ID: C-268, 4.1

Date Collected: 09/19/22 14:13
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-38

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 10:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 10:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 10:38	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/01/22 09:58	10/03/22 10:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 10:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/01/22 09:58	10/03/22 10:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*10/01/22 09:58*	*10/03/22 10:38*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*10/01/22 09:58*	*10/03/22 10:38*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-268, 4.1

Lab Sample ID: 880-19424-38
Matrix: Solid
Date Collected: 09/19/22 14:13
Date Received: 09/20/22 09:30

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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 04:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 04:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*09/21/22 08:21*	*09/24/22 04:53*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*09/21/22 08:21*	*09/24/22 04:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.5**		5.02		mg/Kg			09/23/22 18:47	1

Client Sample ID: C-269, 4.1

Lab Sample ID: 880-19424-39
Matrix: Solid
Date Collected: 09/19/22 14:15
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:58	10/03/22 10:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:58	10/03/22 10:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:58	10/03/22 10:58	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		10/01/22 09:58	10/03/22 10:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:58	10/03/22 10:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/01/22 09:58	10/03/22 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*10/01/22 09:58*	*10/03/22 10:58*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*10/01/22 09:58*	*10/03/22 10:58*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 05:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 05:14	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-269, 4.1

Date Collected: 09/19/22 14:15
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-39

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/24/22 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/21/22 08:21*	*09/24/22 05:14*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*09/21/22 08:21*	*09/24/22 05:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.3**		5.05		mg/Kg			09/23/22 18:52	1

Client Sample ID: C-270, 4.1

Date Collected: 09/19/22 14:16
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-40

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:58	10/03/22 11:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:58	10/03/22 11:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:58	10/03/22 11:19	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		10/01/22 09:58	10/03/22 11:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/01/22 09:58	10/03/22 11:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/01/22 09:58	10/03/22 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*10/01/22 09:58*	*10/03/22 11:19*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*10/01/22 09:58*	*10/03/22 11:19*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:21	09/24/22 05:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 05:36	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:21	09/24/22 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*09/21/22 08:21*	*09/24/22 05:36*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*09/21/22 08:21*	*09/24/22 05:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**347**		5.04		mg/Kg			09/23/22 18:58	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-271, 4.1

Date Collected: 09/19/22 14:18
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-41

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:52	10/01/22 07:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:52	10/01/22 07:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:52	10/01/22 07:55	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/28/22 14:52	10/01/22 07:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:52	10/01/22 07:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/28/22 14:52	10/01/22 07:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/28/22 14:52*	*10/01/22 07:55*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*09/28/22 14:52*	*10/01/22 07:55*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/20/22 15:30	09/21/22 14:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 15:30	09/21/22 14:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 15:30	09/21/22 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*80*		*70 - 130*	*09/20/22 15:30*	*09/21/22 14:46*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*09/20/22 15:30*	*09/21/22 14:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.3**		4.98		mg/Kg			09/23/22 14:17	1

Client Sample ID: C-272, 4.1

Date Collected: 09/19/22 14:20
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-42

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 08:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 08:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 08:15	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		09/28/22 14:52	10/01/22 08:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 08:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/28/22 14:52	10/01/22 08:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*09/28/22 14:52*	*10/01/22 08:15*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*09/28/22 14:52*	*10/01/22 08:15*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-272, 4.1

Date Collected: 09/19/22 14:20
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-42

Matrix: Solid

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			10/01/22 19:44	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			09/22/22 10:29	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		09/20/22 15:30	09/21/22 15:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 15:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*09/20/22 15:30*	*09/21/22 15:07*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*09/20/22 15:30*	*09/21/22 15:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.4**		4.95		mg/Kg			09/23/22 14:32	1

Client Sample ID: C-273, 4.1

Date Collected: 09/19/22 14:21
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-43

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 08:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 08:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 08:36	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/28/22 14:52	10/01/22 08:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 08:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/28/22 14:52	10/01/22 08:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/28/22 14:52*	*10/01/22 08:36*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*09/28/22 14:52*	*10/01/22 08:36*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/20/22 15:30	09/21/22 15:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 15:30	09/21/22 15:49	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-273, 4.1

Lab Sample ID: 880-19424-43
Matrix: Solid
Date Collected: 09/19/22 14:21
Date Received: 09/20/22 09:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 15:30	09/21/22 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*09/20/22 15:30*	*09/21/22 15:49*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*09/20/22 15:30*	*09/21/22 15:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.9**		4.96		mg/Kg			09/23/22 14:36	1

Client Sample ID: C-274, 4.1

Lab Sample ID: 880-19424-44
Matrix: Solid
Date Collected: 09/19/22 14:24
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:52	10/01/22 08:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:52	10/01/22 08:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:52	10/01/22 08:56	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/28/22 14:52	10/01/22 08:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:52	10/01/22 08:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/28/22 14:52	10/01/22 08:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*09/28/22 14:52*	*10/01/22 08:56*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*09/28/22 14:52*	*10/01/22 08:56*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/20/22 15:30	09/21/22 16:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 16:09	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*09/20/22 15:30*	*09/21/22 16:09*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/20/22 15:30*	*09/21/22 16:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**106**		5.04		mg/Kg			09/23/22 14:41	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-275, 4.1

Date Collected: 09/19/22 14:26
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-45

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 09:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 09:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 09:37	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/28/22 14:52	10/01/22 09:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 09:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/28/22 14:52	10/01/22 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*09/28/22 14:52*	*10/01/22 09:37*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*09/28/22 14:52*	*10/01/22 09:37*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/20/22 15:30	09/21/22 16:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 16:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*09/20/22 15:30*	*09/21/22 16:31*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*09/20/22 15:30*	*09/21/22 16:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2270**		24.9		mg/Kg			09/23/22 14:46	5

Client Sample ID: C-266, 4.1

Date Collected: 09/19/22 14:11
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-46

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 09:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 09:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 09:57	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		09/28/22 14:52	10/01/22 09:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 09:57	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/28/22 14:52	10/01/22 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*09/28/22 14:52*	*10/01/22 09:57*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*09/28/22 14:52*	*10/01/22 09:57*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19424-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-266, 4.1 Lab Sample ID: 880-19424-46

Date Collected: 09/19/22 14:11 **Matrix: Solid**
Date Received: 09/20/22 09:30

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			10/01/22 19:44	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			09/22/22 10:29	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		09/20/22 15:30	09/21/22 16:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 16:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*09/20/22 15:30*	*09/21/22 16:52*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*09/20/22 15:30*	*09/21/22 16:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1240**		24.9		mg/Kg			09/23/22 15:01	5

Client Sample ID: C-276, 4.1 Lab Sample ID: 880-19424-47

Date Collected: 09/19/22 14:32 **Matrix: Solid**
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:52	10/01/22 10:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:52	10/01/22 10:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:52	10/01/22 10:18	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/28/22 14:52	10/01/22 10:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:52	10/01/22 10:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 14:52	10/01/22 10:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*09/28/22 14:52*	*10/01/22 10:18*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*09/28/22 14:52*	*10/01/22 10:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/22 19:44	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			09/22/22 10:29	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		09/20/22 15:30	09/21/22 17:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 15:30	09/21/22 17:13	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-276, 4.1

Lab Sample ID: 880-19424-47
Matrix: Solid
Date Collected: 09/19/22 14:32
Date Received: 09/20/22 09:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 15:30	09/21/22 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*09/20/22 15:30*	*09/21/22 17:13*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*09/20/22 15:30*	*09/21/22 17:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2530**		25.0		mg/Kg			09/23/22 15:06	5

Client Sample ID: C-277 4.1

Lab Sample ID: 880-19424-48
Matrix: Solid
Date Collected: 09/19/22 14:33
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:52	10/01/22 10:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:52	10/01/22 10:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:52	10/01/22 10:38	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/28/22 14:52	10/01/22 10:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:52	10/01/22 10:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 14:52	10/01/22 10:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*09/28/22 14:52*	*10/01/22 10:38*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/28/22 14:52*	*10/01/22 10:38*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/20/22 15:30	09/21/22 17:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 15:30	09/21/22 17:34	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 15:30	09/21/22 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*09/20/22 15:30*	*09/21/22 17:34*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*09/20/22 15:30*	*09/21/22 17:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**207**		4.95		mg/Kg			09/23/22 15:10	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-278, 4.1

Date Collected: 09/19/22 14:35
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-49

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 10:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 10:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 10:59	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 10:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 10:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 10:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*09/28/22 14:52*	*10/01/22 10:59*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/28/22 14:52*	*10/01/22 10:59*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/20/22 15:30	09/21/22 17:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 17:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*09/20/22 15:30*	*09/21/22 17:55*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*09/20/22 15:30*	*09/21/22 17:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.7**		4.98		mg/Kg			09/23/22 15:15	1

Client Sample ID: C-279, 4.1

Date Collected: 09/19/22 14:38
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-50

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 11:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 11:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 11:20	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		09/28/22 14:52	10/01/22 11:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 11:20	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/28/22 14:52	10/01/22 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/28/22 14:52*	*10/01/22 11:20*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*09/28/22 14:52*	*10/01/22 11:20*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19424-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-279, 4.1 Lab Sample ID: 880-19424-50
Date Collected: 09/19/22 14:38 **Matrix: Solid**
Date Received: 09/20/22 09:30

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			10/01/22 19:44	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			09/22/22 10:29	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		09/20/22 15:30	09/21/22 18:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 15:30	09/21/22 18:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 15:30	09/21/22 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*09/20/22 15:30*	*09/21/22 18:17*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*09/20/22 15:30*	*09/21/22 18:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1330**		24.8		mg/Kg			09/23/22 15:20	5

Client Sample ID: C-280, 4.1 Lab Sample ID: 880-19424-51
Date Collected: 09/19/22 14:40 **Matrix: Solid**
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 12:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 12:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 12:43	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		09/28/22 14:52	10/01/22 12:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:52	10/01/22 12:43	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/28/22 14:52	10/01/22 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*09/28/22 14:52*	*10/01/22 12:43*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*09/28/22 14:52*	*10/01/22 12:43*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/20/22 15:30	09/21/22 18:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 18:38	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19424-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-280, 4.1 Lab Sample ID: 880-19424-51
Date Collected: 09/19/22 14:40 **Matrix: Solid**
Date Received: 09/20/22 09:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*09/20/22 15:30*	*09/21/22 18:38*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*09/20/22 15:30*	*09/21/22 18:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**624**		5.05		mg/Kg			09/23/22 15:25	1

Client Sample ID: C-281, 4.1 Lab Sample ID: 880-19424-52
Date Collected: 09/19/22 14:42 **Matrix: Solid**
Date Received: 09/20/22 09:30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:03	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 13:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*09/28/22 14:52*	*10/01/22 13:03*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*09/28/22 14:52*	*10/01/22 13:03*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/20/22 15:30	09/21/22 18:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/22 15:30	09/21/22 18:59	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/22 15:30	09/21/22 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*09/20/22 15:30*	*09/21/22 18:59*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*09/20/22 15:30*	*09/21/22 18:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94.4**		4.95		mg/Kg			09/23/22 15:39	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-282, 4.1

Date Collected: 09/19/22 14:43
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-53

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:24	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/28/22 14:52	10/01/22 13:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/28/22 14:52	10/01/22 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*09/28/22 14:52*	*10/01/22 13:24*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*09/28/22 14:52*	*10/01/22 13:24*	*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			10/01/22 19:44	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			09/22/22 10:29	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		09/21/22 08:32	09/22/22 20:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 08:32	09/22/22 20:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 08:32	09/22/22 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*09/21/22 08:32*	*09/22/22 20:34*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*09/21/22 08:32*	*09/22/22 20:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**141**		4.98		mg/Kg			09/23/22 15:44	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

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)
880-19424-1	C-230, 1.5	94	83
880-19424-1 MS	C-230, 1.5	94	90
880-19424-1 MSD	C-230, 1.5	99	93
880-19424-2	C-231, 1.5	125	87
880-19424-3	C-232, 1.5	125	86
880-19424-4	C-233, 1.5	121	83
880-19424-5	C-234, 1.5	125	88
880-19424-6	C-235, 1.5	131 S1+	87
880-19424-7	C-236, 1.5	124	89
880-19424-8	C-237, 1.5	111	76
880-19424-9	C-238, 1.5	125	88
880-19424-10	C-239, 1.5	115	81
880-19424-11	C-240, 1.5	121	86
880-19424-12	C-241, 1.5	133 S1+	89
880-19424-13	C-242, 1.5	121	85
880-19424-14	C-243, 0-1.5	120	84
880-19424-15	C-244, 0-1.5	118	82
880-19424-16	C-245, 2	114	71
880-19424-17	C-246, 2	120	83
880-19424-18	C-247, 2	122	86
880-19424-19	C-248, 2	122	85
880-19424-20	C-249, 2	121	82
880-19424-21	C-250, 2	120	91
880-19424-21 MS	C-250, 2	130	106
880-19424-21 MSD	C-250, 2	122	100
880-19424-22	C-251, 2	123	88
880-19424-23	C-252, 2	120	85
880-19424-24	C-253, 2	119	87
880-19424-25	C-254, 2	121	87
880-19424-26	C-255, 4.1	122	87
880-19424-27	C-256, 4.1	120	78
880-19424-28	C-257, 4.1	122	82
880-19424-29	C-258, 4.1	121	82
880-19424-30	C-259, 4.1	124	87
880-19424-31	C-260, 4.1	125	89
880-19424-31 MS	C-260, 4.1	134 S1+	101
880-19424-31 MSD	C-260, 4.1	137 S1+	101
880-19424-32	C-261, 4.1	130	88
880-19424-33	C-262, 4.1	118	79
880-19424-34	C-263, 4.1	124	88
880-19424-35	C-264, 4.1	125	89
880-19424-36	C-265, 4.1	125	88
880-19424-37	C-267, 4.1	124	90
880-19424-38	C-268, 4.1	127	86
880-19424-39	C-269, 4.1	128	81
880-19424-40	C-270, 4.1	127	90
880-19424-41	C-271, 4.1	112	88
880-19424-41 MS	C-271, 4.1	131 S1+	108
880-19424-41 MSD	C-271, 4.1	136 S1+	109

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-19424-1
Project/Site: Limestone 1H SDG: 21-0100-24

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)
880-19424-42	C-272, 4.1	117	85
880-19424-43	C-273, 4.1	107	77
880-19424-44	C-274, 4.1	123	86
880-19424-45	C-275, 4.1	117	85
880-19424-46	C-266, 4.1	116	89
880-19424-47	C-276, 4.1	117	89
880-19424-48	C-277 4.1	115	91
880-19424-49	C-278, 4.1	118	91
880-19424-50	C-279, 4.1	111	84
880-19424-51	C-280, 4.1	115	93
880-19424-52	C-281, 4.1	115	85
880-19424-53	C-282, 4.1	119	90
LCS 880-35620/1-A	Lab Control Sample	127	104
LCS 880-35872/1-A	Lab Control Sample	83	91
LCS 880-35872/2-A	Lab Control Sample	86	89
LCS 880-35874/1-A	Lab Control Sample	147 S1+	98
LCS 880-35875/1-A	Lab Control Sample	131 S1+	100
LCSD 880-35620/2-A	Lab Control Sample Dup	140 S1+	106
LCSD 880-35874/2-A	Lab Control Sample Dup	123	104
LCSD 880-35875/2-A	Lab Control Sample Dup	149 S1+	100
MB 880-35620/5-A	Method Blank	107	86
MB 880-35630/5-A	Method Blank	101	89
MB 880-35872/5-A	Method Blank	81	73
MB 880-35874/5-A	Method Blank	106	84
MB 880-35875/5-A	Method Blank	107	82
MB 880-35889/7	Method Blank	109	87

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)
880-19424-1	C-230, 1.5	89	79
880-19424-1 MS	C-230, 1.5	100	71
880-19424-1 MSD	C-230, 1.5	87	62 S1-
880-19424-2	C-231, 1.5	98	84
880-19424-3	C-232, 1.5	118	98
880-19424-4	C-233, 1.5	94	80
880-19424-5	C-234, 1.5	93	79
880-19424-6	C-235, 1.5	99	86
880-19424-7	C-236, 1.5	98	86
880-19424-8	C-237, 1.5	116	101
880-19424-9	C-238, 1.5	100	85
880-19424-10	C-239, 1.5	100	85
880-19424-11	C-240, 1.5	99	86
880-19424-12	C-241, 1.5	98	86

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-19424-1
Project/Site: Limestone 1H SDG: 21-0100-24

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)								
880-19424-13	C-242, 1.5	112	98								
880-19424-14	C-243, 0-1.5	102	88								
880-19424-15	C-244, 0-1.5	118	102								
880-19424-16	C-245, 2	113	95								
880-19424-17	C-246, 2	89	75								
880-19424-18	C-247, 2	116	98								
880-19424-19	C-248, 2	95	83								
880-19424-20	C-249, 2	118	100								
880-19424-21	C-250, 2	106	92								
880-19424-21 MS	C-250, 2	110	80								
880-19424-21 MSD	C-250, 2	90	81								
880-19424-22	C-251, 2	106	93								
880-19424-23	C-252, 2	99	88								
880-19424-24	C-253, 2	114	100								
880-19424-25	C-254, 2	119	106								
880-19424-26	C-255, 4.1	124	108								
880-19424-27	C-256, 4.1	111	95								
880-19424-28	C-257, 4.1	97	87								
880-19424-29	C-258, 4.1	105	95								
880-19424-30	C-259, 4.1	122	108								
880-19424-31	C-260, 4.1	126	116								
880-19424-32	C-261, 4.1	125	112								
880-19424-33	C-262, 4.1	103	95								
880-19424-34	C-263, 4.1	121	108								
880-19424-35	C-264, 4.1	126	111								
880-19424-36	C-265, 4.1	112	97								
880-19424-37	C-267, 4.1	117	99								
880-19424-38	C-268, 4.1	94	84								
880-19424-39	C-269, 4.1	98	87								
880-19424-40	C-270, 4.1	97	86								
880-19424-41	C-271, 4.1	80	89								
880-19424-42	C-272, 4.1	88	97								
880-19424-43	C-273, 4.1	92	103								
880-19424-44	C-274, 4.1	93	104								
880-19424-45	C-275, 4.1	91	102								
880-19424-46	C-266, 4.1	88	100								
880-19424-47	C-276, 4.1	90	103								
880-19424-48	C-277 4.1	89	97								
880-19424-49	C-278, 4.1	90	101								
880-19424-50	C-279, 4.1	90	101								
880-19424-51	C-280, 4.1	82	92								
880-19424-52	C-281, 4.1	95	106								
880-19424-53	C-282, 4.1	97	92								
880-19424-53 MS	C-282, 4.1	85	76								
880-19424-53 MSD	C-282, 4.1	82	74								
LCS 880-34983/2-A	Lab Control Sample	174 S1+	196 S1+								
LCS 880-35015/2-A	Lab Control Sample	113	107								
LCS 880-35016/2-A	Lab Control Sample	98	91								
LCS 880-35018/2-A	Lab Control Sample	113	105								
LCSD 880-34983/3-A	Lab Control Sample Dup	177 S1+	203 S1+								

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-19424-1
Project/Site: Limestone 1H SDG: 21-0100-24

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)								
LCSD 880-35015/3-A	Lab Control Sample Dup	110	96								
LCSD 880-35016/3-A	Lab Control Sample Dup	96	88								
LCSD 880-35018/3-A	Lab Control Sample Dup	98	86								
MB 880-34983/1-A	Method Blank	85	100								
MB 880-35015/1-A	Method Blank	121	108								
MB 880-35016/1-A	Method Blank	118	111								
MB 880-35018/1-A	Method Blank	105	103								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35620/5-A
Matrix: Solid
Analysis Batch: 35744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35620

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 07:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 07:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/28/22 14:52*	*10/01/22 07:33*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*09/28/22 14:52*	*10/01/22 07:33*	*1*

Lab Sample ID: LCS 880-35620/1-A
Matrix: Solid
Analysis Batch: 35744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35620

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09300		mg/Kg		93	70 - 130		
Toluene			0.100	0.08450		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.09159		mg/Kg		92	70 - 130		
m,p-Xylenes			0.200	0.1871		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.1192		mg/Kg		119	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-35620/2-A
Matrix: Solid
Analysis Batch: 35744

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35620

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08642		mg/Kg		86	70 - 130	7	35
Toluene			0.100	0.08244		mg/Kg		82	70 - 130	2	35
Ethylbenzene			0.100	0.09331		mg/Kg		93	70 - 130	2	35
m,p-Xylenes			0.200	0.1962		mg/Kg		98	70 - 130	5	35
o-Xylene			0.100	0.1206		mg/Kg		121	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-19424-41 MS
Matrix: Solid
Analysis Batch: 35744

Client Sample ID: C-271, 4.1
Prep Type: Total/NA
Prep Batch: 35620

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.101	0.09638		mg/Kg		96	70 - 130		
Toluene	<0.00201	U	0.101	0.08691		mg/Kg		86	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

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

Lab Sample ID: 880-19424-41 MS
Matrix: Solid
Analysis Batch: 35744

Client Sample ID: C-271, 4.1
Prep Type: Total/NA
Prep Batch: 35620

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.101	0.09656		mg/Kg		96	70 - 130
m,p-Xylenes	<0.00402	U	0.202	0.1955		mg/Kg		97	70 - 130
o-Xylene	<0.00201	U	0.101	0.1131		mg/Kg		112	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-19424-41 MSD
Matrix: Solid
Analysis Batch: 35744

Client Sample ID: C-271, 4.1
Prep Type: Total/NA
Prep Batch: 35620

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0994	0.1013		mg/Kg		102	70 - 130	5	35
Toluene	<0.00201	U	0.0994	0.09069		mg/Kg		91	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.0994	0.1024		mg/Kg		103	70 - 130	6	35
m,p-Xylenes	<0.00402	U	0.199	0.2076		mg/Kg		104	70 - 130	6	35
o-Xylene	<0.00201	U	0.0994	0.1207		mg/Kg		121	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: MB 880-35630/5-A
Matrix: Solid
Analysis Batch: 35744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35630

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 16:29	09/30/22 20:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/28/22 16:29*	*09/30/22 20:58*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*09/28/22 16:29*	*09/30/22 20:58*	*1*

Lab Sample ID: MB 880-35872/5-A
Matrix: Solid
Analysis Batch: 35873

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35872

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:43	10/01/22 11:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:43	10/01/22 11:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:43	10/01/22 11:46	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		10/01/22 09:43	10/01/22 11:46	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-35872/5-A
Matrix: Solid
Analysis Batch: 35873

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35872

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/01/22 09:43	10/01/22 11:46	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/01/22 09:43	10/01/22 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*10/01/22 09:43*	*10/01/22 11:46*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*10/01/22 09:43*	*10/01/22 11:46*	*1*

Lab Sample ID: LCS 880-35872/1-A
Matrix: Solid
Analysis Batch: 35873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35872

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0992	0.1075		mg/Kg		108	70 - 130		
Toluene			0.0992	0.08595		mg/Kg		87	70 - 130		
Ethylbenzene			0.0992	0.08026		mg/Kg		81	70 - 130		
m,p-Xylenes			0.198	0.1632		mg/Kg		82	70 - 130		
o-Xylene			0.0992	0.08000		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCS 880-35872/2-A
Matrix: Solid
Analysis Batch: 35873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35872

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0998	0.1130		mg/Kg		113	70 - 130		
Toluene			0.0998	0.09192		mg/Kg		92	70 - 130		
Ethylbenzene			0.0998	0.08592		mg/Kg		86	70 - 130		
m,p-Xylenes			0.200	0.1718		mg/Kg		86	70 - 130		
o-Xylene			0.0998	0.08346		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-19424-1 MS
Matrix: Solid
Analysis Batch: 35873

Client Sample ID: C-230, 1.5
Prep Type: Total/NA
Prep Batch: 35872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F1 F2	0.100	0.08798		mg/Kg		88	70 - 130		
Toluene	<0.00199	U F1 F2	0.100	0.08008		mg/Kg		80	70 - 130		
Ethylbenzene	<0.00199	U F1 F2	0.100	0.07730		mg/Kg		77	70 - 130		
m,p-Xylenes	<0.00398	U F1 F2	0.200	0.1596		mg/Kg		80	70 - 130		
o-Xylene	<0.00199	U F1 F2	0.100	0.07839		mg/Kg		78	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

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

Lab Sample ID: 880-19424-1 MS
Matrix: Solid
Analysis Batch: 35873

Client Sample ID: C-230, 1.5
Prep Type: Total/NA
Prep Batch: 35872

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-19424-1 MSD
Matrix: Solid
Analysis Batch: 35873

Client Sample ID: C-230, 1.5
Prep Type: Total/NA
Prep Batch: 35872

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.100	0.02363	F1 F2	mg/Kg		24	70 - 130	115	35
Toluene	<0.00199	U F1 F2	0.100	0.02150	F1 F2	mg/Kg		21	70 - 130	115	35
Ethylbenzene	<0.00199	U F1 F2	0.100	0.01611	F1 F2	mg/Kg		16	70 - 130	131	35
m,p-Xylenes	<0.00398	U F1 F2	0.200	0.01537	F1 F2	mg/Kg		8	70 - 130	165	35
o-Xylene	<0.00199	U F1 F2	0.100	0.01660	F1 F2	mg/Kg		17	70 - 130	130	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-35874/5-A
Matrix: Solid
Analysis Batch: 35889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35874

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:52	10/02/22 21:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:52	10/02/22 21:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:52	10/02/22 21:28	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/01/22 09:52	10/02/22 21:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/01/22 09:52	10/02/22 21:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/01/22 09:52	10/02/22 21:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	10/01/22 09:52	10/02/22 21:28	1
1,4-Difluorobenzene (Surr)	84		70 - 130	10/01/22 09:52	10/02/22 21:28	1

Lab Sample ID: LCS 880-35874/1-A
Matrix: Solid
Analysis Batch: 35889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35874

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0998	0.08694		mg/Kg		87	70 - 130		
Toluene			0.0998	0.08856		mg/Kg		89	70 - 130		
Ethylbenzene			0.0998	0.1024		mg/Kg		103	70 - 130		
m,p-Xylenes			0.200	0.2203		mg/Kg		110	70 - 130		
o-Xylene			0.0998	0.1293		mg/Kg		130	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-35874/1-A
Matrix: Solid
Analysis Batch: 35889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35874

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

Lab Sample ID: LCSD 880-35874/2-A
Matrix: Solid
Analysis Batch: 35889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35874

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-19424-21 MS
Matrix: Solid
Analysis Batch: 35889

Client Sample ID: C-250, 2
Prep Type: Total/NA
Prep Batch: 35874

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.100	0.06039	F1	mg/Kg		60	70 - 130
Toluene	<0.00200	U F1	0.100	0.04450	F1	mg/Kg		44	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.03609	F1	mg/Kg		36	70 - 130
m,p-Xylenes	<0.00399	U F1	0.200	0.07306	F1	mg/Kg		36	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.04576	F1	mg/Kg		46	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	130		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-19424-21 MSD
Matrix: Solid
Analysis Batch: 35889

Client Sample ID: C-250, 2
Prep Type: Total/NA
Prep Batch: 35874

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.05307	F1	mg/Kg		53	70 - 130	13	35
Toluene	<0.00200	U F1	0.100	0.03684	F1	mg/Kg		37	70 - 130	19	35
Ethylbenzene	<0.00200	U F1	0.100	0.02708	F1	mg/Kg		27	70 - 130	29	35
m,p-Xylenes	<0.00399	U F1	0.201	0.05382	F1	mg/Kg		27	70 - 130	30	35
o-Xylene	<0.00200	U F1	0.100	0.03499	F1	mg/Kg		35	70 - 130	27	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-35875/5-A
Matrix: Solid
Analysis Batch: 35889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35875

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 07:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 07:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 07:53	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-35875/5-A
Matrix: Solid
Analysis Batch: 35889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35875

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/01/22 09:58	10/03/22 07:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/01/22 09:58	10/03/22 07:53	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/01/22 09:58	10/03/22 07:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*10/01/22 09:58*	*10/03/22 07:53*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*10/01/22 09:58*	*10/03/22 07:53*	*1*

Lab Sample ID: LCS 880-35875/1-A
Matrix: Solid
Analysis Batch: 35889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35875

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08041		mg/Kg		80	70 - 130		
Toluene			0.100	0.08154		mg/Kg		81	70 - 130		
Ethylbenzene			0.100	0.08733		mg/Kg		87	70 - 130		
m,p-Xylenes			0.200	0.1818		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.1070		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-35875/2-A
Matrix: Solid
Analysis Batch: 35889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35875

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08007		mg/Kg		80	70 - 130	0	35
Toluene			0.100	0.08139		mg/Kg		81	70 - 130	0	35
Ethylbenzene			0.100	0.09776		mg/Kg		97	70 - 130	11	35
m,p-Xylenes			0.201	0.2029		mg/Kg		101	70 - 130	11	35
o-Xylene			0.100	0.1194		mg/Kg		119	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-19424-31 MS
Matrix: Solid
Analysis Batch: 35889

Client Sample ID: C-260, 4.1
Prep Type: Total/NA
Prep Batch: 35875

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F1	0.0996	0.04473	F1	mg/Kg		45	70 - 130		
Toluene	<0.00199	U F1	0.0996	0.03015	F1	mg/Kg		30	70 - 130		
Ethylbenzene	<0.00199	U F1	0.0996	0.02667	F1	mg/Kg		27	70 - 130		
m,p-Xylenes	<0.00398	U F1	0.199	0.04640	F1	mg/Kg		23	70 - 130		
o-Xylene	<0.00199	U F1	0.0996	0.03373	F1	mg/Kg		34	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

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

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-19424-31 MSD — **Client Sample ID: C-260, 4.1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35889 — **Prep Batch: 35875**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0998	0.03811	F1	mg/Kg		38	70 - 130	16	35
Toluene	<0.00199	U F1	0.0998	0.02654	F1	mg/Kg		27	70 - 130	13	35
Ethylbenzene	<0.00199	U F1	0.0998	0.02328	F1	mg/Kg		23	70 - 130	14	35
m,p-Xylenes	<0.00398	U F1	0.200	0.04241	F1	mg/Kg		21	70 - 130	9	35
o-Xylene	<0.00199	U F1	0.0998	0.02989	F1	mg/Kg		30	70 - 130	12	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-35889/7 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35889

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			10/02/22 15:19	1
Toluene	<0.00200	U	0.00200		mg/Kg			10/02/22 15:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			10/02/22 15:19	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg			10/02/22 15:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			10/02/22 15:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			10/02/22 15:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130		10/02/22 15:19	1
1,4-Difluorobenzene (Surr)	87		70 - 130		10/02/22 15:19	1

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

Lab Sample ID: MB 880-34983/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35011 — **Prep Batch: 34983**

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		09/20/22 15:30	09/21/22 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 10:03	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/22 15:30	09/21/22 10:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130	09/20/22 15:30	09/21/22 10:03	1
o-Terphenyl (Surr)	100		70 - 130	09/20/22 15:30	09/21/22 10:03	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-34983/2-A
Matrix: Solid
Analysis Batch: 35011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34983

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1033		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	912.4		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*174*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*196*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-34983/3-A
Matrix: Solid
Analysis Batch: 35011

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34983

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	944.1		mg/Kg		94	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	955.3		mg/Kg		96	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*177*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*203*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-35015/1-A
Matrix: Solid
Analysis Batch: 35218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35015

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		09/21/22 08:18	09/23/22 10:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 10:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:18	09/23/22 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*09/21/22 08:18*	*09/23/22 10:55*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/21/22 08:18*	*09/23/22 10:55*	*1*

Lab Sample ID: LCS 880-35015/2-A
Matrix: Solid
Analysis Batch: 35218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35015

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1180		mg/Kg		118	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1099		mg/Kg		110	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-35015/2-A
Matrix: Solid
Analysis Batch: 35218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35015

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-35015/3-A
Matrix: Solid
Analysis Batch: 35218

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35015

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	931.8	*1	mg/Kg		93	70 - 130	24	20
Diesel Range Organics (Over C10-C28)			1000	981.2		mg/Kg		98	70 - 130	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	96		70 - 130

Lab Sample ID: 880-19424-1 MS
Matrix: Solid
Analysis Batch: 35218

Client Sample ID: C-230, 1.5
Prep Type: Total/NA
Prep Batch: 35015

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 *1	996	804.2		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	909.3		mg/Kg		90	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	71		70 - 130

Lab Sample ID: 880-19424-1 MSD
Matrix: Solid
Analysis Batch: 35218

Client Sample ID: C-230, 1.5
Prep Type: Total/NA
Prep Batch: 35015

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 *1	999	769.5		mg/Kg		77	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	801.0		mg/Kg		79	70 - 130	13	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	87		70 - 130
o-Terphenyl (Surr)	62	S1-	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

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

Lab Sample ID: MB 880-35016/1-A
Matrix: Solid
Analysis Batch: 35218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35016

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		09/21/22 08:21	09/23/22 20:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/23/22 20:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:21	09/23/22 20:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*09/21/22 08:21*	*09/23/22 20:35*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*09/21/22 08:21*	*09/23/22 20:35*	*1*

Lab Sample ID: LCS 880-35016/2-A
Matrix: Solid
Analysis Batch: 35218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35016

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	845.4		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	934.4		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*98*		*70 - 130*
o-Terphenyl (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 880-35016/3-A
Matrix: Solid
Analysis Batch: 35218

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35016

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	851.1		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	898.8		mg/Kg		90	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*96*		*70 - 130*
o-Terphenyl (Surr)	*88*		*70 - 130*

Lab Sample ID: 880-19424-21 MS
Matrix: Solid
Analysis Batch: 35218

Client Sample ID: C-250, 2
Prep Type: Total/NA
Prep Batch: 35016

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	996	822.4		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)	196		996	1027		mg/Kg		83	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

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

Lab Sample ID: 880-19424-21 MS
Matrix: Solid
Analysis Batch: 35218

Client Sample ID: C-250, 2
Prep Type: Total/NA
Prep Batch: 35016

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	80		70 - 130

Lab Sample ID: 880-19424-21 MSD
Matrix: Solid
Analysis Batch: 35218

Client Sample ID: C-250, 2
Prep Type: Total/NA
Prep Batch: 35016

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	961.5		mg/Kg		96	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	196		999	1047		mg/Kg		85	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	90		70 - 130
o-Terphenyl (Surr)	81		70 - 130

Lab Sample ID: MB 880-35018/1-A
Matrix: Solid
Analysis Batch: 35120

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35018

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		09/21/22 08:32	09/22/22 19:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 08:32	09/22/22 19:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 08:32	09/22/22 19:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	09/21/22 08:32	09/22/22 19:31	1
o-Terphenyl (Surr)	103		70 - 130	09/21/22 08:32	09/22/22 19:31	1

Lab Sample ID: LCS 880-35018/2-A
Matrix: Solid
Analysis Batch: 35120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35018

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1066		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1068		mg/Kg		107	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	105		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-35018/3-A
Matrix: Solid
Analysis Batch: 35120

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35018

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	821.3	*1	mg/Kg		82	70 - 130	26	20
Diesel Range Organics (Over C10-C28)			1000	889.0		mg/Kg		89	70 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*98*		*70 - 130*
o-Terphenyl (Surr)	*86*		*70 - 130*

Lab Sample ID: 880-19424-53 MS
Matrix: Solid
Analysis Batch: 35120

Client Sample ID: C-282, 4.1
Prep Type: Total/NA
Prep Batch: 35018

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 *1	996	826.0		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	868.7		mg/Kg		87	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*85*		*70 - 130*
o-Terphenyl (Surr)	*76*		*70 - 130*

Lab Sample ID: 880-19424-53 MSD
Matrix: Solid
Analysis Batch: 35120

Client Sample ID: C-282, 4.1
Prep Type: Total/NA
Prep Batch: 35018

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 *1	999	786.3		mg/Kg		79	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	872.5		mg/Kg		87	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*82*		*70 - 130*
o-Terphenyl (Surr)	*74*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34992/1-A
Matrix: Solid
Analysis Batch: 35275

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			09/23/22 14:02	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-34992/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35275

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	245.7		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-34992/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35275

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	246.7		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-19424-41 MS — **Client Sample ID: C-271, 4.1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35275

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	31.3		249	274.8		mg/Kg		98	90 - 110		

Lab Sample ID: 880-19424-41 MSD — **Client Sample ID: C-271, 4.1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35275

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	31.3		249	275.1		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-19424-51 MS — **Client Sample ID: C-280, 4.1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35275

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	624		253	854.7		mg/Kg		91	90 - 110		

Lab Sample ID: 880-19424-51 MSD — **Client Sample ID: C-280, 4.1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35275

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	624		253	854.0		mg/Kg		91	90 - 110	0	20

Lab Sample ID: MB 880-34993/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35305

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/23/22 16:16	1

Lab Sample ID: LCS 880-34993/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35305

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.0		mg/Kg		98	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-34993/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35305

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	261.8		mg/Kg		105	90 - 110	6	20

Lab Sample ID: 880-19424-21 MS — **Client Sample ID: C-250, 2**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	246		249	515.6		mg/Kg		109	90 - 110		

Lab Sample ID: 880-19424-21 MSD — **Client Sample ID: C-250, 2**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	246		249	481.6		mg/Kg		95	90 - 110	7	20

Lab Sample ID: 880-19424-31 MS — **Client Sample ID: C-260, 4.1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	220		251	492.7		mg/Kg		109	90 - 110		

Lab Sample ID: 880-19424-31 MSD — **Client Sample ID: C-260, 4.1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	220		251	461.7		mg/Kg		96	90 - 110	6	20

Lab Sample ID: MB 880-34994/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35311

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/23/22 16:53	1

Lab Sample ID: LCS 880-34994/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35311

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.2		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-34994/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35311

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	246.6		mg/Kg		99	90 - 110	0	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-19424-1 MS
Matrix: Solid
Analysis Batch: 35311

Client Sample ID: C-230, 1.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2040		1260	3290		mg/Kg		99	90 - 110

Lab Sample ID: 880-19424-1 MSD
Matrix: Solid
Analysis Batch: 35311

Client Sample ID: C-230, 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	2040		1260	3316		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 880-19424-11 MS
Matrix: Solid
Analysis Batch: 35311

Client Sample ID: C-240, 1.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	80.3		251	332.9		mg/Kg		101	90 - 110

Lab Sample ID: 880-19424-11 MSD
Matrix: Solid
Analysis Batch: 35311

Client Sample ID: C-240, 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	80.3		251	332.5		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

GC VOA

Prep Batch: 35620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-41	C-271, 4.1	Total/NA	Solid	5035	
880-19424-42	C-272, 4.1	Total/NA	Solid	5035	
880-19424-43	C-273, 4.1	Total/NA	Solid	5035	
880-19424-44	C-274, 4.1	Total/NA	Solid	5035	
880-19424-45	C-275, 4.1	Total/NA	Solid	5035	
880-19424-46	C-266, 4.1	Total/NA	Solid	5035	
880-19424-47	C-276, 4.1	Total/NA	Solid	5035	
880-19424-48	C-277 4.1	Total/NA	Solid	5035	
880-19424-49	C-278, 4.1	Total/NA	Solid	5035	
880-19424-50	C-279, 4.1	Total/NA	Solid	5035	
880-19424-51	C-280, 4.1	Total/NA	Solid	5035	
880-19424-52	C-281, 4.1	Total/NA	Solid	5035	
880-19424-53	C-282, 4.1	Total/NA	Solid	5035	
MB 880-35620/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35620/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35620/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19424-41 MS	C-271, 4.1	Total/NA	Solid	5035	
880-19424-41 MSD	C-271, 4.1	Total/NA	Solid	5035	

Prep Batch: 35630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35630/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 35744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-41	C-271, 4.1	Total/NA	Solid	8021B	35620
880-19424-42	C-272, 4.1	Total/NA	Solid	8021B	35620
880-19424-43	C-273, 4.1	Total/NA	Solid	8021B	35620
880-19424-44	C-274, 4.1	Total/NA	Solid	8021B	35620
880-19424-45	C-275, 4.1	Total/NA	Solid	8021B	35620
880-19424-46	C-266, 4.1	Total/NA	Solid	8021B	35620
880-19424-47	C-276, 4.1	Total/NA	Solid	8021B	35620
880-19424-48	C-277 4.1	Total/NA	Solid	8021B	35620
880-19424-49	C-278, 4.1	Total/NA	Solid	8021B	35620
880-19424-50	C-279, 4.1	Total/NA	Solid	8021B	35620
880-19424-51	C-280, 4.1	Total/NA	Solid	8021B	35620
880-19424-52	C-281, 4.1	Total/NA	Solid	8021B	35620
880-19424-53	C-282, 4.1	Total/NA	Solid	8021B	35620
MB 880-35620/5-A	Method Blank	Total/NA	Solid	8021B	35620
MB 880-35630/5-A	Method Blank	Total/NA	Solid	8021B	35630
LCS 880-35620/1-A	Lab Control Sample	Total/NA	Solid	8021B	35620
LCSD 880-35620/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35620
880-19424-41 MS	C-271, 4.1	Total/NA	Solid	8021B	35620
880-19424-41 MSD	C-271, 4.1	Total/NA	Solid	8021B	35620

Prep Batch: 35872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-1	C-230, 1.5	Total/NA	Solid	5035	
MB 880-35872/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35872/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-35872/2-A	Lab Control Sample	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

GC VOA (Continued)

Prep Batch: 35872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-1 MS	C-230, 1.5	Total/NA	Solid	5035	
880-19424-1 MSD	C-230, 1.5	Total/NA	Solid	5035	

Analysis Batch: 35873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-1	C-230, 1.5	Total/NA	Solid	8021B	35872
MB 880-35872/5-A	Method Blank	Total/NA	Solid	8021B	35872
LCS 880-35872/1-A	Lab Control Sample	Total/NA	Solid	8021B	35872
LCS 880-35872/2-A	Lab Control Sample	Total/NA	Solid	8021B	35872
880-19424-1 MS	C-230, 1.5	Total/NA	Solid	8021B	35872
880-19424-1 MSD	C-230, 1.5	Total/NA	Solid	8021B	35872

Prep Batch: 35874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-11	C-240, 1.5	Total/NA	Solid	5035	
880-19424-12	C-241, 1.5	Total/NA	Solid	5035	
880-19424-13	C-242, 1.5	Total/NA	Solid	5035	
880-19424-14	C-243, 0-1.5	Total/NA	Solid	5035	
880-19424-15	C-244, 0-1.5	Total/NA	Solid	5035	
880-19424-16	C-245, 2	Total/NA	Solid	5035	
880-19424-17	C-246, 2	Total/NA	Solid	5035	
880-19424-18	C-247, 2	Total/NA	Solid	5035	
880-19424-19	C-248, 2	Total/NA	Solid	5035	
880-19424-20	C-249, 2	Total/NA	Solid	5035	
880-19424-21	C-250, 2	Total/NA	Solid	5035	
880-19424-22	C-251, 2	Total/NA	Solid	5035	
880-19424-23	C-252, 2	Total/NA	Solid	5035	
880-19424-24	C-253, 2	Total/NA	Solid	5035	
880-19424-25	C-254, 2	Total/NA	Solid	5035	
880-19424-26	C-255, 4.1	Total/NA	Solid	5035	
880-19424-27	C-256, 4.1	Total/NA	Solid	5035	
880-19424-28	C-257, 4.1	Total/NA	Solid	5035	
880-19424-29	C-258, 4.1	Total/NA	Solid	5035	
880-19424-30	C-259, 4.1	Total/NA	Solid	5035	
MB 880-35874/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35874/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35874/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19424-21 MS	C-250, 2	Total/NA	Solid	5035	
880-19424-21 MSD	C-250, 2	Total/NA	Solid	5035	

Prep Batch: 35875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-2	C-231, 1.5	Total/NA	Solid	5035	
880-19424-3	C-232, 1.5	Total/NA	Solid	5035	
880-19424-4	C-233, 1.5	Total/NA	Solid	5035	
880-19424-5	C-234, 1.5	Total/NA	Solid	5035	
880-19424-6	C-235, 1.5	Total/NA	Solid	5035	
880-19424-7	C-236, 1.5	Total/NA	Solid	5035	
880-19424-8	C-237, 1.5	Total/NA	Solid	5035	
880-19424-9	C-238, 1.5	Total/NA	Solid	5035	
880-19424-10	C-239, 1.5	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

GC VOA (Continued)

Prep Batch: 35875 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-31	C-260, 4.1	Total/NA	Solid	5035	
880-19424-32	C-261, 4.1	Total/NA	Solid	5035	
880-19424-33	C-262, 4.1	Total/NA	Solid	5035	
880-19424-34	C-263, 4.1	Total/NA	Solid	5035	
880-19424-35	C-264, 4.1	Total/NA	Solid	5035	
880-19424-36	C-265, 4.1	Total/NA	Solid	5035	
880-19424-37	C-267, 4.1	Total/NA	Solid	5035	
880-19424-38	C-268, 4.1	Total/NA	Solid	5035	
880-19424-39	C-269, 4.1	Total/NA	Solid	5035	
880-19424-40	C-270, 4.1	Total/NA	Solid	5035	
MB 880-35875/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35875/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35875/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19424-31 MS	C-260, 4.1	Total/NA	Solid	5035	
880-19424-31 MSD	C-260, 4.1	Total/NA	Solid	5035	

Analysis Batch: 35876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-1	C-230, 1.5	Total/NA	Solid	Total BTEX	
880-19424-2	C-231, 1.5	Total/NA	Solid	Total BTEX	
880-19424-3	C-232, 1.5	Total/NA	Solid	Total BTEX	
880-19424-4	C-233, 1.5	Total/NA	Solid	Total BTEX	
880-19424-5	C-234, 1.5	Total/NA	Solid	Total BTEX	
880-19424-6	C-235, 1.5	Total/NA	Solid	Total BTEX	
880-19424-7	C-236, 1.5	Total/NA	Solid	Total BTEX	
880-19424-8	C-237, 1.5	Total/NA	Solid	Total BTEX	
880-19424-9	C-238, 1.5	Total/NA	Solid	Total BTEX	
880-19424-10	C-239, 1.5	Total/NA	Solid	Total BTEX	
880-19424-11	C-240, 1.5	Total/NA	Solid	Total BTEX	
880-19424-12	C-241, 1.5	Total/NA	Solid	Total BTEX	
880-19424-13	C-242, 1.5	Total/NA	Solid	Total BTEX	
880-19424-14	C-243, 0-1.5	Total/NA	Solid	Total BTEX	
880-19424-15	C-244, 0-1.5	Total/NA	Solid	Total BTEX	
880-19424-16	C-245, 2	Total/NA	Solid	Total BTEX	
880-19424-17	C-246, 2	Total/NA	Solid	Total BTEX	
880-19424-18	C-247, 2	Total/NA	Solid	Total BTEX	
880-19424-19	C-248, 2	Total/NA	Solid	Total BTEX	
880-19424-20	C-249, 2	Total/NA	Solid	Total BTEX	
880-19424-21	C-250, 2	Total/NA	Solid	Total BTEX	
880-19424-22	C-251, 2	Total/NA	Solid	Total BTEX	
880-19424-23	C-252, 2	Total/NA	Solid	Total BTEX	
880-19424-24	C-253, 2	Total/NA	Solid	Total BTEX	
880-19424-25	C-254, 2	Total/NA	Solid	Total BTEX	
880-19424-26	C-255, 4.1	Total/NA	Solid	Total BTEX	
880-19424-27	C-256, 4.1	Total/NA	Solid	Total BTEX	
880-19424-28	C-257, 4.1	Total/NA	Solid	Total BTEX	
880-19424-29	C-258, 4.1	Total/NA	Solid	Total BTEX	
880-19424-30	C-259, 4.1	Total/NA	Solid	Total BTEX	
880-19424-31	C-260, 4.1	Total/NA	Solid	Total BTEX	
880-19424-32	C-261, 4.1	Total/NA	Solid	Total BTEX	
880-19424-33	C-262, 4.1	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

GC VOA (Continued)

Analysis Batch: 35876 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-34	C-263, 4.1	Total/NA	Solid	Total BTEX	
880-19424-35	C-264, 4.1	Total/NA	Solid	Total BTEX	
880-19424-36	C-265, 4.1	Total/NA	Solid	Total BTEX	
880-19424-37	C-267, 4.1	Total/NA	Solid	Total BTEX	
880-19424-38	C-268, 4.1	Total/NA	Solid	Total BTEX	
880-19424-39	C-269, 4.1	Total/NA	Solid	Total BTEX	
880-19424-40	C-270, 4.1	Total/NA	Solid	Total BTEX	
880-19424-41	C-271, 4.1	Total/NA	Solid	Total BTEX	
880-19424-42	C-272, 4.1	Total/NA	Solid	Total BTEX	
880-19424-43	C-273, 4.1	Total/NA	Solid	Total BTEX	
880-19424-44	C-274, 4.1	Total/NA	Solid	Total BTEX	
880-19424-45	C-275, 4.1	Total/NA	Solid	Total BTEX	
880-19424-46	C-266, 4.1	Total/NA	Solid	Total BTEX	
880-19424-47	C-276, 4.1	Total/NA	Solid	Total BTEX	
880-19424-48	C-277 4.1	Total/NA	Solid	Total BTEX	
880-19424-49	C-278, 4.1	Total/NA	Solid	Total BTEX	
880-19424-50	C-279, 4.1	Total/NA	Solid	Total BTEX	
880-19424-51	C-280, 4.1	Total/NA	Solid	Total BTEX	
880-19424-52	C-281, 4.1	Total/NA	Solid	Total BTEX	
880-19424-53	C-282, 4.1	Total/NA	Solid	Total BTEX	

Analysis Batch: 35889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-2	C-231, 1.5	Total/NA	Solid	8021B	35875
880-19424-3	C-232, 1.5	Total/NA	Solid	8021B	35875
880-19424-4	C-233, 1.5	Total/NA	Solid	8021B	35875
880-19424-5	C-234, 1.5	Total/NA	Solid	8021B	35875
880-19424-6	C-235, 1.5	Total/NA	Solid	8021B	35875
880-19424-7	C-236, 1.5	Total/NA	Solid	8021B	35875
880-19424-8	C-237, 1.5	Total/NA	Solid	8021B	35875
880-19424-9	C-238, 1.5	Total/NA	Solid	8021B	35875
880-19424-10	C-239, 1.5	Total/NA	Solid	8021B	35875
880-19424-11	C-240, 1.5	Total/NA	Solid	8021B	35874
880-19424-12	C-241, 1.5	Total/NA	Solid	8021B	35874
880-19424-13	C-242, 1.5	Total/NA	Solid	8021B	35874
880-19424-14	C-243, 0-1.5	Total/NA	Solid	8021B	35874
880-19424-15	C-244, 0-1.5	Total/NA	Solid	8021B	35874
880-19424-16	C-245, 2	Total/NA	Solid	8021B	35874
880-19424-17	C-246, 2	Total/NA	Solid	8021B	35874
880-19424-18	C-247, 2	Total/NA	Solid	8021B	35874
880-19424-19	C-248, 2	Total/NA	Solid	8021B	35874
880-19424-20	C-249, 2	Total/NA	Solid	8021B	35874
880-19424-21	C-250, 2	Total/NA	Solid	8021B	35874
880-19424-22	C-251, 2	Total/NA	Solid	8021B	35874
880-19424-23	C-252, 2	Total/NA	Solid	8021B	35874
880-19424-24	C-253, 2	Total/NA	Solid	8021B	35874
880-19424-25	C-254, 2	Total/NA	Solid	8021B	35874
880-19424-26	C-255, 4.1	Total/NA	Solid	8021B	35874
880-19424-27	C-256, 4.1	Total/NA	Solid	8021B	35874
880-19424-28	C-257, 4.1	Total/NA	Solid	8021B	35874
880-19424-29	C-258, 4.1	Total/NA	Solid	8021B	35874

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

GC VOA (Continued)

Analysis Batch: 35889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-30	C-259, 4.1	Total/NA	Solid	8021B	35874
880-19424-31	C-260, 4.1	Total/NA	Solid	8021B	35875
880-19424-32	C-261, 4.1	Total/NA	Solid	8021B	35875
880-19424-33	C-262, 4.1	Total/NA	Solid	8021B	35875
880-19424-34	C-263, 4.1	Total/NA	Solid	8021B	35875
880-19424-35	C-264, 4.1	Total/NA	Solid	8021B	35875
880-19424-36	C-265, 4.1	Total/NA	Solid	8021B	35875
880-19424-37	C-267, 4.1	Total/NA	Solid	8021B	35875
880-19424-38	C-268, 4.1	Total/NA	Solid	8021B	35875
880-19424-39	C-269, 4.1	Total/NA	Solid	8021B	35875
880-19424-40	C-270, 4.1	Total/NA	Solid	8021B	35875
MB 880-35874/5-A	Method Blank	Total/NA	Solid	8021B	35874
MB 880-35875/5-A	Method Blank	Total/NA	Solid	8021B	35875
MB 880-35889/7	Method Blank	Total/NA	Solid	8021B	
LCS 880-35874/1-A	Lab Control Sample	Total/NA	Solid	8021B	35874
LCS 880-35875/1-A	Lab Control Sample	Total/NA	Solid	8021B	35875
LCSD 880-35874/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35874
LCSD 880-35875/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35875
880-19424-21 MS	C-250, 2	Total/NA	Solid	8021B	35874
880-19424-21 MSD	C-250, 2	Total/NA	Solid	8021B	35874
880-19424-31 MS	C-260, 4.1	Total/NA	Solid	8021B	35875
880-19424-31 MSD	C-260, 4.1	Total/NA	Solid	8021B	35875

GC Semi VOA

Prep Batch: 34983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-41	C-271, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-42	C-272, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-43	C-273, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-44	C-274, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-45	C-275, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-46	C-266, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-47	C-276, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-48	C-277 4.1	Total/NA	Solid	8015NM Prep	
880-19424-49	C-278, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-50	C-279, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-51	C-280, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-52	C-281, 4.1	Total/NA	Solid	8015NM Prep	
MB 880-34983/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34983/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34983/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-41	C-271, 4.1	Total/NA	Solid	8015B NM	34983
880-19424-42	C-272, 4.1	Total/NA	Solid	8015B NM	34983
880-19424-43	C-273, 4.1	Total/NA	Solid	8015B NM	34983
880-19424-44	C-274, 4.1	Total/NA	Solid	8015B NM	34983
880-19424-45	C-275, 4.1	Total/NA	Solid	8015B NM	34983
880-19424-46	C-266, 4.1	Total/NA	Solid	8015B NM	34983

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 35011 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-47	C-276, 4.1	Total/NA	Solid	8015B NM	34983
880-19424-48	C-277 4.1	Total/NA	Solid	8015B NM	34983
880-19424-49	C-278, 4.1	Total/NA	Solid	8015B NM	34983
880-19424-50	C-279, 4.1	Total/NA	Solid	8015B NM	34983
880-19424-51	C-280, 4.1	Total/NA	Solid	8015B NM	34983
880-19424-52	C-281, 4.1	Total/NA	Solid	8015B NM	34983
MB 880-34983/1-A	Method Blank	Total/NA	Solid	8015B NM	34983
LCS 880-34983/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34983
LCSD 880-34983/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34983

Prep Batch: 35015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-1	C-230, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-2	C-231, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-3	C-232, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-4	C-233, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-5	C-234, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-6	C-235, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-7	C-236, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-8	C-237, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-9	C-238, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-10	C-239, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-11	C-240, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-12	C-241, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-13	C-242, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-14	C-243, 0-1.5	Total/NA	Solid	8015NM Prep	
880-19424-15	C-244, 0-1.5	Total/NA	Solid	8015NM Prep	
880-19424-16	C-245, 2	Total/NA	Solid	8015NM Prep	
880-19424-17	C-246, 2	Total/NA	Solid	8015NM Prep	
880-19424-18	C-247, 2	Total/NA	Solid	8015NM Prep	
880-19424-19	C-248, 2	Total/NA	Solid	8015NM Prep	
880-19424-20	C-249, 2	Total/NA	Solid	8015NM Prep	
MB 880-35015/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35015/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35015/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19424-1 MS	C-230, 1.5	Total/NA	Solid	8015NM Prep	
880-19424-1 MSD	C-230, 1.5	Total/NA	Solid	8015NM Prep	

Prep Batch: 35016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-21	C-250, 2	Total/NA	Solid	8015NM Prep	
880-19424-22	C-251, 2	Total/NA	Solid	8015NM Prep	
880-19424-23	C-252, 2	Total/NA	Solid	8015NM Prep	
880-19424-24	C-253, 2	Total/NA	Solid	8015NM Prep	
880-19424-25	C-254, 2	Total/NA	Solid	8015NM Prep	
880-19424-26	C-255, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-27	C-256, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-28	C-257, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-29	C-258, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-30	C-259, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-31	C-260, 4.1	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Prep Batch: 35016 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-32	C-261, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-33	C-262, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-34	C-263, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-35	C-264, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-36	C-265, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-37	C-267, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-38	C-268, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-39	C-269, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-40	C-270, 4.1	Total/NA	Solid	8015NM Prep	
MB 880-35016/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35016/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35016/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19424-21 MS	C-250, 2	Total/NA	Solid	8015NM Prep	
880-19424-21 MSD	C-250, 2	Total/NA	Solid	8015NM Prep	

Prep Batch: 35018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-53	C-282, 4.1	Total/NA	Solid	8015NM Prep	
MB 880-35018/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35018/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35018/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19424-53 MS	C-282, 4.1	Total/NA	Solid	8015NM Prep	
880-19424-53 MSD	C-282, 4.1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-53	C-282, 4.1	Total/NA	Solid	8015B NM	35018
MB 880-35018/1-A	Method Blank	Total/NA	Solid	8015B NM	35018
LCS 880-35018/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35018
LCSD 880-35018/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35018
880-19424-53 MS	C-282, 4.1	Total/NA	Solid	8015B NM	35018
880-19424-53 MSD	C-282, 4.1	Total/NA	Solid	8015B NM	35018

Analysis Batch: 35159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-1	C-230, 1.5	Total/NA	Solid	8015 NM	
880-19424-2	C-231, 1.5	Total/NA	Solid	8015 NM	
880-19424-3	C-232, 1.5	Total/NA	Solid	8015 NM	
880-19424-4	C-233, 1.5	Total/NA	Solid	8015 NM	
880-19424-5	C-234, 1.5	Total/NA	Solid	8015 NM	
880-19424-6	C-235, 1.5	Total/NA	Solid	8015 NM	
880-19424-7	C-236, 1.5	Total/NA	Solid	8015 NM	
880-19424-8	C-237, 1.5	Total/NA	Solid	8015 NM	
880-19424-9	C-238, 1.5	Total/NA	Solid	8015 NM	
880-19424-10	C-239, 1.5	Total/NA	Solid	8015 NM	
880-19424-11	C-240, 1.5	Total/NA	Solid	8015 NM	
880-19424-12	C-241, 1.5	Total/NA	Solid	8015 NM	
880-19424-13	C-242, 1.5	Total/NA	Solid	8015 NM	
880-19424-14	C-243, 0-1.5	Total/NA	Solid	8015 NM	
880-19424-15	C-244, 0-1.5	Total/NA	Solid	8015 NM	
880-19424-16	C-245, 2	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 35159 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-17	C-246, 2	Total/NA	Solid	8015 NM	
880-19424-18	C-247, 2	Total/NA	Solid	8015 NM	
880-19424-19	C-248, 2	Total/NA	Solid	8015 NM	
880-19424-20	C-249, 2	Total/NA	Solid	8015 NM	
880-19424-21	C-250, 2	Total/NA	Solid	8015 NM	
880-19424-22	C-251, 2	Total/NA	Solid	8015 NM	
880-19424-23	C-252, 2	Total/NA	Solid	8015 NM	
880-19424-24	C-253, 2	Total/NA	Solid	8015 NM	
880-19424-25	C-254, 2	Total/NA	Solid	8015 NM	
880-19424-26	C-255, 4.1	Total/NA	Solid	8015 NM	
880-19424-27	C-256, 4.1	Total/NA	Solid	8015 NM	
880-19424-28	C-257, 4.1	Total/NA	Solid	8015 NM	
880-19424-29	C-258, 4.1	Total/NA	Solid	8015 NM	
880-19424-30	C-259, 4.1	Total/NA	Solid	8015 NM	
880-19424-31	C-260, 4.1	Total/NA	Solid	8015 NM	
880-19424-32	C-261, 4.1	Total/NA	Solid	8015 NM	
880-19424-33	C-262, 4.1	Total/NA	Solid	8015 NM	
880-19424-34	C-263, 4.1	Total/NA	Solid	8015 NM	
880-19424-35	C-264, 4.1	Total/NA	Solid	8015 NM	
880-19424-36	C-265, 4.1	Total/NA	Solid	8015 NM	
880-19424-37	C-267, 4.1	Total/NA	Solid	8015 NM	
880-19424-38	C-268, 4.1	Total/NA	Solid	8015 NM	
880-19424-39	C-269, 4.1	Total/NA	Solid	8015 NM	
880-19424-40	C-270, 4.1	Total/NA	Solid	8015 NM	
880-19424-41	C-271, 4.1	Total/NA	Solid	8015 NM	
880-19424-42	C-272, 4.1	Total/NA	Solid	8015 NM	
880-19424-43	C-273, 4.1	Total/NA	Solid	8015 NM	
880-19424-44	C-274, 4.1	Total/NA	Solid	8015 NM	
880-19424-45	C-275, 4.1	Total/NA	Solid	8015 NM	
880-19424-46	C-266, 4.1	Total/NA	Solid	8015 NM	
880-19424-47	C-276, 4.1	Total/NA	Solid	8015 NM	
880-19424-48	C-277 4.1	Total/NA	Solid	8015 NM	
880-19424-49	C-278, 4.1	Total/NA	Solid	8015 NM	
880-19424-50	C-279, 4.1	Total/NA	Solid	8015 NM	
880-19424-51	C-280, 4.1	Total/NA	Solid	8015 NM	
880-19424-52	C-281, 4.1	Total/NA	Solid	8015 NM	
880-19424-53	C-282, 4.1	Total/NA	Solid	8015 NM	

Analysis Batch: 35218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-1	C-230, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-2	C-231, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-3	C-232, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-4	C-233, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-5	C-234, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-6	C-235, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-7	C-236, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-8	C-237, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-9	C-238, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-10	C-239, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-11	C-240, 1.5	Total/NA	Solid	8015B NM	35015

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 35218 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-12	C-241, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-13	C-242, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-14	C-243, 0-1.5	Total/NA	Solid	8015B NM	35015
880-19424-15	C-244, 0-1.5	Total/NA	Solid	8015B NM	35015
880-19424-16	C-245, 2	Total/NA	Solid	8015B NM	35015
880-19424-17	C-246, 2	Total/NA	Solid	8015B NM	35015
880-19424-18	C-247, 2	Total/NA	Solid	8015B NM	35015
880-19424-19	C-248, 2	Total/NA	Solid	8015B NM	35015
880-19424-20	C-249, 2	Total/NA	Solid	8015B NM	35015
880-19424-21	C-250, 2	Total/NA	Solid	8015B NM	35016
880-19424-22	C-251, 2	Total/NA	Solid	8015B NM	35016
880-19424-23	C-252, 2	Total/NA	Solid	8015B NM	35016
880-19424-24	C-253, 2	Total/NA	Solid	8015B NM	35016
880-19424-25	C-254, 2	Total/NA	Solid	8015B NM	35016
880-19424-26	C-255, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-27	C-256, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-28	C-257, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-29	C-258, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-30	C-259, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-31	C-260, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-32	C-261, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-33	C-262, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-34	C-263, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-35	C-264, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-36	C-265, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-37	C-267, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-38	C-268, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-39	C-269, 4.1	Total/NA	Solid	8015B NM	35016
880-19424-40	C-270, 4.1	Total/NA	Solid	8015B NM	35016
MB 880-35015/1-A	Method Blank	Total/NA	Solid	8015B NM	35015
MB 880-35016/1-A	Method Blank	Total/NA	Solid	8015B NM	35016
LCS 880-35015/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35015
LCS 880-35016/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35016
LCSD 880-35015/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35015
LCSD 880-35016/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35016
880-19424-1 MS	C-230, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-1 MSD	C-230, 1.5	Total/NA	Solid	8015B NM	35015
880-19424-21 MS	C-250, 2	Total/NA	Solid	8015B NM	35016
880-19424-21 MSD	C-250, 2	Total/NA	Solid	8015B NM	35016

HPLC/IC

Leach Batch: 34992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-41	C-271, 4.1	Soluble	Solid	DI Leach	
880-19424-42	C-272, 4.1	Soluble	Solid	DI Leach	
880-19424-43	C-273, 4.1	Soluble	Solid	DI Leach	
880-19424-44	C-274, 4.1	Soluble	Solid	DI Leach	
880-19424-45	C-275, 4.1	Soluble	Solid	DI Leach	
880-19424-46	C-266, 4.1	Soluble	Solid	DI Leach	
880-19424-47	C-276, 4.1	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

HPLC/IC (Continued)

Leach Batch: 34992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-48	C-277 4.1	Soluble	Solid	DI Leach	
880-19424-49	C-278, 4.1	Soluble	Solid	DI Leach	
880-19424-50	C-279, 4.1	Soluble	Solid	DI Leach	
880-19424-51	C-280, 4.1	Soluble	Solid	DI Leach	
880-19424-52	C-281, 4.1	Soluble	Solid	DI Leach	
880-19424-53	C-282, 4.1	Soluble	Solid	DI Leach	
MB 880-34992/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34992/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34992/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19424-41 MS	C-271, 4.1	Soluble	Solid	DI Leach	
880-19424-41 MSD	C-271, 4.1	Soluble	Solid	DI Leach	
880-19424-51 MS	C-280, 4.1	Soluble	Solid	DI Leach	
880-19424-51 MSD	C-280, 4.1	Soluble	Solid	DI Leach	

Leach Batch: 34993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-21	C-250, 2	Soluble	Solid	DI Leach	
880-19424-22	C-251, 2	Soluble	Solid	DI Leach	
880-19424-23	C-252, 2	Soluble	Solid	DI Leach	
880-19424-24	C-253, 2	Soluble	Solid	DI Leach	
880-19424-25	C-254, 2	Soluble	Solid	DI Leach	
880-19424-26	C-255, 4.1	Soluble	Solid	DI Leach	
880-19424-27	C-256, 4.1	Soluble	Solid	DI Leach	
880-19424-28	C-257, 4.1	Soluble	Solid	DI Leach	
880-19424-29	C-258, 4.1	Soluble	Solid	DI Leach	
880-19424-30	C-259, 4.1	Soluble	Solid	DI Leach	
880-19424-31	C-260, 4.1	Soluble	Solid	DI Leach	
880-19424-32	C-261, 4.1	Soluble	Solid	DI Leach	
880-19424-33	C-262, 4.1	Soluble	Solid	DI Leach	
880-19424-34	C-263, 4.1	Soluble	Solid	DI Leach	
880-19424-35	C-264, 4.1	Soluble	Solid	DI Leach	
880-19424-36	C-265, 4.1	Soluble	Solid	DI Leach	
880-19424-37	C-267, 4.1	Soluble	Solid	DI Leach	
880-19424-38	C-268, 4.1	Soluble	Solid	DI Leach	
880-19424-39	C-269, 4.1	Soluble	Solid	DI Leach	
880-19424-40	C-270, 4.1	Soluble	Solid	DI Leach	
MB 880-34993/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34993/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34993/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19424-21 MS	C-250, 2	Soluble	Solid	DI Leach	
880-19424-21 MSD	C-250, 2	Soluble	Solid	DI Leach	
880-19424-31 MS	C-260, 4.1	Soluble	Solid	DI Leach	
880-19424-31 MSD	C-260, 4.1	Soluble	Solid	DI Leach	

Leach Batch: 34994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-1	C-230, 1.5	Soluble	Solid	DI Leach	
880-19424-2	C-231, 1.5	Soluble	Solid	DI Leach	
880-19424-3	C-232, 1.5	Soluble	Solid	DI Leach	
880-19424-4	C-233, 1.5	Soluble	Solid	DI Leach	
880-19424-5	C-234, 1.5	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

HPLC/IC (Continued)

Leach Batch: 34994 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-6	C-235, 1.5	Soluble	Solid	DI Leach	
880-19424-7	C-236, 1.5	Soluble	Solid	DI Leach	
880-19424-8	C-237, 1.5	Soluble	Solid	DI Leach	
880-19424-9	C-238, 1.5	Soluble	Solid	DI Leach	
880-19424-10	C-239, 1.5	Soluble	Solid	DI Leach	
880-19424-11	C-240, 1.5	Soluble	Solid	DI Leach	
880-19424-12	C-241, 1.5	Soluble	Solid	DI Leach	
880-19424-13	C-242, 1.5	Soluble	Solid	DI Leach	
880-19424-14	C-243, 0-1.5	Soluble	Solid	DI Leach	
880-19424-15	C-244, 0-1.5	Soluble	Solid	DI Leach	
880-19424-16	C-245, 2	Soluble	Solid	DI Leach	
880-19424-17	C-246, 2	Soluble	Solid	DI Leach	
880-19424-18	C-247, 2	Soluble	Solid	DI Leach	
880-19424-19	C-248, 2	Soluble	Solid	DI Leach	
880-19424-20	C-249, 2	Soluble	Solid	DI Leach	
MB 880-34994/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34994/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34994/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19424-1 MS	C-230, 1.5	Soluble	Solid	DI Leach	
880-19424-1 MSD	C-230, 1.5	Soluble	Solid	DI Leach	
880-19424-11 MS	C-240, 1.5	Soluble	Solid	DI Leach	
880-19424-11 MSD	C-240, 1.5	Soluble	Solid	DI Leach	

Analysis Batch: 35275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-41	C-271, 4.1	Soluble	Solid	300.0	34992
880-19424-42	C-272, 4.1	Soluble	Solid	300.0	34992
880-19424-43	C-273, 4.1	Soluble	Solid	300.0	34992
880-19424-44	C-274, 4.1	Soluble	Solid	300.0	34992
880-19424-45	C-275, 4.1	Soluble	Solid	300.0	34992
880-19424-46	C-266, 4.1	Soluble	Solid	300.0	34992
880-19424-47	C-276, 4.1	Soluble	Solid	300.0	34992
880-19424-48	C-277 4.1	Soluble	Solid	300.0	34992
880-19424-49	C-278, 4.1	Soluble	Solid	300.0	34992
880-19424-50	C-279, 4.1	Soluble	Solid	300.0	34992
880-19424-51	C-280, 4.1	Soluble	Solid	300.0	34992
880-19424-52	C-281, 4.1	Soluble	Solid	300.0	34992
880-19424-53	C-282, 4.1	Soluble	Solid	300.0	34992
MB 880-34992/1-A	Method Blank	Soluble	Solid	300.0	34992
LCS 880-34992/2-A	Lab Control Sample	Soluble	Solid	300.0	34992
LCSD 880-34992/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34992
880-19424-41 MS	C-271, 4.1	Soluble	Solid	300.0	34992
880-19424-41 MSD	C-271, 4.1	Soluble	Solid	300.0	34992
880-19424-51 MS	C-280, 4.1	Soluble	Solid	300.0	34992
880-19424-51 MSD	C-280, 4.1	Soluble	Solid	300.0	34992

Analysis Batch: 35305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-21	C-250, 2	Soluble	Solid	300.0	34993
880-19424-22	C-251, 2	Soluble	Solid	300.0	34993
880-19424-23	C-252, 2	Soluble	Solid	300.0	34993

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

HPLC/IC (Continued)

Analysis Batch: 35305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-24	C-253, 2	Soluble	Solid	300.0	34993
880-19424-25	C-254, 2	Soluble	Solid	300.0	34993
880-19424-26	C-255, 4.1	Soluble	Solid	300.0	34993
880-19424-27	C-256, 4.1	Soluble	Solid	300.0	34993
880-19424-28	C-257, 4.1	Soluble	Solid	300.0	34993
880-19424-29	C-258, 4.1	Soluble	Solid	300.0	34993
880-19424-30	C-259, 4.1	Soluble	Solid	300.0	34993
880-19424-31	C-260, 4.1	Soluble	Solid	300.0	34993
880-19424-32	C-261, 4.1	Soluble	Solid	300.0	34993
880-19424-33	C-262, 4.1	Soluble	Solid	300.0	34993
880-19424-34	C-263, 4.1	Soluble	Solid	300.0	34993
880-19424-35	C-264, 4.1	Soluble	Solid	300.0	34993
880-19424-36	C-265, 4.1	Soluble	Solid	300.0	34993
880-19424-37	C-267, 4.1	Soluble	Solid	300.0	34993
880-19424-38	C-268, 4.1	Soluble	Solid	300.0	34993
880-19424-39	C-269, 4.1	Soluble	Solid	300.0	34993
880-19424-40	C-270, 4.1	Soluble	Solid	300.0	34993
MB 880-34993/1-A	Method Blank	Soluble	Solid	300.0	34993
LCS 880-34993/2-A	Lab Control Sample	Soluble	Solid	300.0	34993
LCSD 880-34993/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34993
880-19424-21 MS	C-250, 2	Soluble	Solid	300.0	34993
880-19424-21 MSD	C-250, 2	Soluble	Solid	300.0	34993
880-19424-31 MS	C-260, 4.1	Soluble	Solid	300.0	34993
880-19424-31 MSD	C-260, 4.1	Soluble	Solid	300.0	34993

Analysis Batch: 35311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-1	C-230, 1.5	Soluble	Solid	300.0	34994
880-19424-2	C-231, 1.5	Soluble	Solid	300.0	34994
880-19424-3	C-232, 1.5	Soluble	Solid	300.0	34994
880-19424-4	C-233, 1.5	Soluble	Solid	300.0	34994
880-19424-5	C-234, 1.5	Soluble	Solid	300.0	34994
880-19424-6	C-235, 1.5	Soluble	Solid	300.0	34994
880-19424-7	C-236, 1.5	Soluble	Solid	300.0	34994
880-19424-8	C-237, 1.5	Soluble	Solid	300.0	34994
880-19424-9	C-238, 1.5	Soluble	Solid	300.0	34994
880-19424-10	C-239, 1.5	Soluble	Solid	300.0	34994
880-19424-11	C-240, 1.5	Soluble	Solid	300.0	34994
880-19424-12	C-241, 1.5	Soluble	Solid	300.0	34994
880-19424-13	C-242, 1.5	Soluble	Solid	300.0	34994
880-19424-14	C-243, 0-1.5	Soluble	Solid	300.0	34994
880-19424-15	C-244, 0-1.5	Soluble	Solid	300.0	34994
880-19424-16	C-245, 2	Soluble	Solid	300.0	34994
880-19424-17	C-246, 2	Soluble	Solid	300.0	34994
880-19424-18	C-247, 2	Soluble	Solid	300.0	34994
880-19424-19	C-248, 2	Soluble	Solid	300.0	34994
880-19424-20	C-249, 2	Soluble	Solid	300.0	34994
MB 880-34994/1-A	Method Blank	Soluble	Solid	300.0	34994
LCS 880-34994/2-A	Lab Control Sample	Soluble	Solid	300.0	34994
LCSD 880-34994/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34994
880-19424-1 MS	C-230, 1.5	Soluble	Solid	300.0	34994

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

HPLC/IC (Continued)

Analysis Batch: 35311 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19424-1 MSD	C-230, 1.5	Soluble	Solid	300.0	34994
880-19424-11 MS	C-240, 1.5	Soluble	Solid	300.0	34994
880-19424-11 MSD	C-240, 1.5	Soluble	Solid	300.0	34994

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-230, 1.5
Date Collected: 09/19/22 11:00
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35872	10/01/22 09:43	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35873	10/01/22 12:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 11:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		5			35311	09/23/22 17:07	CH	EET MID

Client Sample ID: C-231, 1.5
Date Collected: 09/19/22 11:02
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 13:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 13:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 17:22	CH	EET MID

Client Sample ID: C-232, 1.5
Date Collected: 09/19/22 11:04
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 13:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 13:25	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 17:27	CH	EET MID

Client Sample ID: C-233, 1.5
Date Collected: 09/19/22 11:07
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 13:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-233, 1.5
Date Collected: 09/19/22 11:07
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-4
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			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 13:47	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 17:31	CH	EET MID

Client Sample ID: C-234, 1.5
Date Collected: 09/19/22 11:10
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 14:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 14:08	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 17:36	CH	EET MID

Client Sample ID: C-235, 1.5
Date Collected: 09/19/22 11:12
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 14:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 14:30	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 17:51	CH	EET MID

Client Sample ID: C-236, 1.5
Date Collected: 09/19/22 11:15
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 14:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 14:51	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-236, 1.5
Date Collected: 09/19/22 11:15
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		5			35311	09/23/22 17:56	CH	EET MID

Client Sample ID: C-237, 1.5
Date Collected: 09/19/22 11:20
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 15:05	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 15:13	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 18:01	CH	EET MID

Client Sample ID: C-238, 1.5
Date Collected: 09/19/22 11:25
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 15:25	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 15:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 18:05	CH	EET MID

Client Sample ID: C-239, 1.5
Date Collected: 09/19/22 11:26
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 15:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 15:56	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 18:10	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-240, 1.5
Date Collected: 09/19/22 11:30
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 02:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 16:39	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 18:15	CH	EET MID

Client Sample ID: C-241, 1.5
Date Collected: 09/19/22 11:33
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/02/22 22:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 17:01	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		5			35311	09/23/22 18:30	CH	EET MID

Client Sample ID: C-242, 1.5
Date Collected: 09/19/22 11:36
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/02/22 22:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 17:22	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 18:34	CH	EET MID

Client Sample ID: C-243, 0-1.5
Date Collected: 09/19/22 11:38
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/02/22 22:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-243, 0-1.5

Lab Sample ID: 880-19424-14
Matrix: Solid
Date Collected: 09/19/22 11:38
Date Received: 09/20/22 09:30

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			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 17:44	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 18:49	CH	EET MID

Client Sample ID: C-244, 0-1.5

Lab Sample ID: 880-19424-15
Matrix: Solid
Date Collected: 09/19/22 11:40
Date Received: 09/20/22 09:30

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	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/02/22 23:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 18:05	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 18:54	CH	EET MID

Client Sample ID: C-245, 2

Lab Sample ID: 880-19424-16
Matrix: Solid
Date Collected: 09/19/22 12:48
Date Received: 09/20/22 09:30

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	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/02/22 23:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 18:27	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 18:59	CH	EET MID

Client Sample ID: C-246, 2

Lab Sample ID: 880-19424-17
Matrix: Solid
Date Collected: 09/19/22 12:50
Date Received: 09/20/22 09:30

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	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/02/22 23:53	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 18:48	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-246, 2
Date Collected: 09/19/22 12:50
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 19:04	CH	EET MID

Client Sample ID: C-247, 2
Date Collected: 09/19/22 12:52
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 00:13	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 19:10	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 19:08	CH	EET MID

Client Sample ID: C-248, 2
Date Collected: 09/19/22 12:54
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 00:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 19:31	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 19:13	CH	EET MID

Client Sample ID: C-249, 2
Date Collected: 09/19/22 12:58
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 00:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35015	09/21/22 08:18	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 19:53	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34994	09/20/22 16:00	KS	EET MID
Soluble	Analysis	300.0		1			35311	09/23/22 19:18	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-250, 2
Date Collected: 09/19/22 13:02
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/02/22 21:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 21:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 16:32	CH	EET MID

Client Sample ID: C-251, 2
Date Collected: 09/19/22 13:05
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 02:27	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 22:45	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 16:48	CH	EET MID

Client Sample ID: C-252, 2
Date Collected: 09/19/22 13:10
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 02:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 23:07	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 16:54	CH	EET MID

Client Sample ID: C-253, 2
Date Collected: 09/19/22 13:14
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 03:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-253, 2
Date Collected: 09/19/22 13:14
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 23:28	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 16:59	CH	EET MID

Client Sample ID: C-254, 2
Date Collected: 09/19/22 13:40
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 03:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/23/22 23:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 17:05	CH	EET MID

Client Sample ID: C-255, 4.1
Date Collected: 09/19/22 13:42
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 03:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 00:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 17:21	CH	EET MID

Client Sample ID: C-256, 4.1
Date Collected: 09/19/22 13:44
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 04:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 00:33	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-256, 4.1
Date Collected: 09/19/22 13:44
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 17:26	CH	EET MID

Client Sample ID: C-257, 4.1
Date Collected: 09/19/22 13:47
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 04:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 00:55	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 17:32	CH	EET MID

Client Sample ID: C-258, 4.1
Date Collected: 09/19/22 13:49
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 04:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 01:17	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 17:37	CH	EET MID

Client Sample ID: C-259, 4.1
Date Collected: 09/19/22 13:51
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 mL	35874	10/01/22 09:52	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 05:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 01:38	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 17:42	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-260, 4.1
Date Collected: 09/19/22 13:59
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 08:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 02:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 17:48	CH	EET MID

Client Sample ID: C-261, 4.1
Date Collected: 09/19/22 14:00
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 08:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 02:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 18:04	CH	EET MID

Client Sample ID: C-262, 4.1
Date Collected: 09/19/22 14:04
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 08:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 03:04	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 18:09	CH	EET MID

Client Sample ID: C-263, 4.1
Date Collected: 09/19/22 14:06
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 09:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-263, 4.1
Date Collected: 09/19/22 14:06
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-34
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			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 03:26	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 18:25	CH	EET MID

Client Sample ID: C-264, 4.1
Date Collected: 09/19/22 14:08
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 09:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 03:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 18:31	CH	EET MID

Client Sample ID: C-265, 4.1
Date Collected: 09/19/22 14:10
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 09:57	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 04:09	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 18:36	CH	EET MID

Client Sample ID: C-267, 4.1
Date Collected: 09/19/22 14:12
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 10:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 04:31	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-267, 4.1
Date Collected: 09/19/22 14:12
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-37
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			4.99 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 18:42	CH	EET MID

Client Sample ID: C-268, 4.1
Date Collected: 09/19/22 14:13
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 10:38	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 04:53	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 18:47	CH	EET MID

Client Sample ID: C-269, 4.1
Date Collected: 09/19/22 14:15
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 10:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 05:14	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 18:52	CH	EET MID

Client Sample ID: C-270, 4.1
Date Collected: 09/19/22 14:16
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35875	10/01/22 09:58	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35889	10/03/22 11:19	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35016	09/21/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35218	09/24/22 05:36	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34993	09/20/22 15:57	KS	EET MID
Soluble	Analysis	300.0		1			35305	09/23/22 18:58	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-271, 4.1
Date Collected: 09/19/22 14:18
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 07:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34983	09/20/22 15:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35011	09/21/22 14:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34992	09/20/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35275	09/23/22 14:17	CH	EET MID

Client Sample ID: C-272, 4.1
Date Collected: 09/19/22 14:20
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 08:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34983	09/20/22 15:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35011	09/21/22 15:07	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34992	09/20/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35275	09/23/22 14:32	CH	EET MID

Client Sample ID: C-273, 4.1
Date Collected: 09/19/22 14:21
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 08:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34983	09/20/22 15:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35011	09/21/22 15:49	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34992	09/20/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35275	09/23/22 14:36	CH	EET MID

Client Sample ID: C-274, 4.1
Date Collected: 09/19/22 14:24
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 08:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-274, 4.1
Date Collected: 09/19/22 14:24
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-44
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			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34983	09/20/22 15:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35011	09/21/22 16:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34992	09/20/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35275	09/23/22 14:41	CH	EET MID

Client Sample ID: C-275, 4.1
Date Collected: 09/19/22 14:26
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 09:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34983	09/20/22 15:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35011	09/21/22 16:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34992	09/20/22 15:54	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35275	09/23/22 14:46	CH	EET MID

Client Sample ID: C-266, 4.1
Date Collected: 09/19/22 14:11
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 09:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34983	09/20/22 15:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35011	09/21/22 16:52	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34992	09/20/22 15:54	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35275	09/23/22 15:01	CH	EET MID

Client Sample ID: C-276, 4.1
Date Collected: 09/19/22 14:32
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 10:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34983	09/20/22 15:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35011	09/21/22 17:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-276, 4.1
Date Collected: 09/19/22 14:32
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	34992	09/20/22 15:54	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35275	09/23/22 15:06	CH	EET MID

Client Sample ID: C-277 4.1
Date Collected: 09/19/22 14:33
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 10:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34983	09/20/22 15:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35011	09/21/22 17:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34992	09/20/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35275	09/23/22 15:10	CH	EET MID

Client Sample ID: C-278, 4.1
Date Collected: 09/19/22 14:35
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 10:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34983	09/20/22 15:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35011	09/21/22 17:55	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34992	09/20/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35275	09/23/22 15:15	CH	EET MID

Client Sample ID: C-279, 4.1
Date Collected: 09/19/22 14:38
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-50
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 11:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34983	09/20/22 15:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35011	09/21/22 18:17	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34992	09/20/22 15:54	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	35275	09/23/22 15:20	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Client Sample ID: C-280, 4.1

Date Collected: 09/19/22 14:40
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-51

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 12:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34983	09/20/22 15:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35011	09/21/22 18:38	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34992	09/20/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35275	09/23/22 15:25	CH	EET MID

Client Sample ID: C-281, 4.1

Date Collected: 09/19/22 14:42
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-52

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 13:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34983	09/20/22 15:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35011	09/21/22 18:59	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34992	09/20/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35275	09/23/22 15:39	CH	EET MID

Client Sample ID: C-282, 4.1

Date Collected: 09/19/22 14:43
Date Received: 09/20/22 09:30

Lab Sample ID: 880-19424-53

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 13:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35876	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35159	09/22/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35018	09/21/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/22/22 20:34	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34992	09/20/22 15:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35275	09/23/22 15:44	CH	EET MID

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-19424-1
Project/Site: Limestone 1H SDG: 21-0100-24

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	T104704400-22-24	06-30-23

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: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-19424-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-19424-1	C-230, 1.5	Solid	09/19/22 11:00	09/20/22 09:30
880-19424-2	C-231, 1.5	Solid	09/19/22 11:02	09/20/22 09:30
880-19424-3	C-232, 1.5	Solid	09/19/22 11:04	09/20/22 09:30
880-19424-4	C-233, 1.5	Solid	09/19/22 11:07	09/20/22 09:30
880-19424-5	C-234, 1.5	Solid	09/19/22 11:10	09/20/22 09:30
880-19424-6	C-235, 1.5	Solid	09/19/22 11:12	09/20/22 09:30
880-19424-7	C-236, 1.5	Solid	09/19/22 11:15	09/20/22 09:30
880-19424-8	C-237, 1.5	Solid	09/19/22 11:20	09/20/22 09:30
880-19424-9	C-238, 1.5	Solid	09/19/22 11:25	09/20/22 09:30
880-19424-10	C-239, 1.5	Solid	09/19/22 11:26	09/20/22 09:30
880-19424-11	C-240, 1.5	Solid	09/19/22 11:30	09/20/22 09:30
880-19424-12	C-241, 1.5	Solid	09/19/22 11:33	09/20/22 09:30
880-19424-13	C-242, 1.5	Solid	09/19/22 11:36	09/20/22 09:30
880-19424-14	C-243, 0-1.5	Solid	09/19/22 11:38	09/20/22 09:30
880-19424-15	C-244, 0-1.5	Solid	09/19/22 11:40	09/20/22 09:30
880-19424-16	C-245, 2	Solid	09/19/22 12:48	09/20/22 09:30
880-19424-17	C-246, 2	Solid	09/19/22 12:50	09/20/22 09:30
880-19424-18	C-247, 2	Solid	09/19/22 12:52	09/20/22 09:30
880-19424-19	C-248, 2	Solid	09/19/22 12:54	09/20/22 09:30
880-19424-20	C-249, 2	Solid	09/19/22 12:58	09/20/22 09:30
880-19424-21	C-250, 2	Solid	09/19/22 13:02	09/20/22 09:30
880-19424-22	C-251, 2	Solid	09/19/22 13:05	09/20/22 09:30
880-19424-23	C-252, 2	Solid	09/19/22 13:10	09/20/22 09:30
880-19424-24	C-253, 2	Solid	09/19/22 13:14	09/20/22 09:30
880-19424-25	C-254, 2	Solid	09/19/22 13:40	09/20/22 09:30
880-19424-26	C-255, 4.1	Solid	09/19/22 13:42	09/20/22 09:30
880-19424-27	C-256, 4.1	Solid	09/19/22 13:44	09/20/22 09:30
880-19424-28	C-257, 4.1	Solid	09/19/22 13:47	09/20/22 09:30
880-19424-29	C-258, 4.1	Solid	09/19/22 13:49	09/20/22 09:30
880-19424-30	C-259, 4.1	Solid	09/19/22 13:51	09/20/22 09:30
880-19424-31	C-260, 4.1	Solid	09/19/22 13:59	09/20/22 09:30
880-19424-32	C-261, 4.1	Solid	09/19/22 14:00	09/20/22 09:30
880-19424-33	C-262, 4.1	Solid	09/19/22 14:04	09/20/22 09:30
880-19424-34	C-263, 4.1	Solid	09/19/22 14:06	09/20/22 09:30
880-19424-35	C-264, 4.1	Solid	09/19/22 14:08	09/20/22 09:30
880-19424-36	C-265, 4.1	Solid	09/19/22 14:10	09/20/22 09:30
880-19424-37	C-267, 4.1	Solid	09/19/22 14:12	09/20/22 09:30
880-19424-38	C-268, 4.1	Solid	09/19/22 14:13	09/20/22 09:30
880-19424-39	C-269, 4.1	Solid	09/19/22 14:15	09/20/22 09:30
880-19424-40	C-270, 4.1	Solid	09/19/22 14:16	09/20/22 09:30
880-19424-41	C-271, 4.1	Solid	09/19/22 14:18	09/20/22 09:30
880-19424-42	C-272, 4.1	Solid	09/19/22 14:20	09/20/22 09:30
880-19424-43	C-273, 4.1	Solid	09/19/22 14:21	09/20/22 09:30
880-19424-44	C-274, 4.1	Solid	09/19/22 14:24	09/20/22 09:30
880-19424-45	C-275, 4.1	Solid	09/19/22 14:26	09/20/22 09:30
880-19424-46	C-266, 4.1	Solid	09/19/22 14:11	09/20/22 09:30
880-19424-47	C-276, 4.1	Solid	09/19/22 14:32	09/20/22 09:30
880-19424-48	C-277 4.1	Solid	09/19/22 14:33	09/20/22 09:30
880-19424-49	C-278, 4.1	Solid	09/19/22 14:35	09/20/22 09:30
880-19424-50	C-279, 4.1	Solid	09/19/22 14:38	09/20/22 09:30
880-19424-51	C-280, 4.1	Solid	09/19/22 14:40	09/20/22 09:30
880-19424-52	C-281, 4.1	Solid	09/19/22 14:42	09/20/22 09:30
880-19424-53	C-282, 4.1	Solid	09/19/22 14:43	09/20/22 09:30

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19424 No. 2735

CHAIN-OF-CUSTODY

10/3/2022

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

DATE 9/20/2022 PAGE 1 OF 4

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT # 21-0100-24 COLLECTOR: AM

Data Reported to

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST / NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-230, 1.5		9/19/22	1100	S	1				X		X		X	X	X													X		
C-231, 1.5			1102																											
C-232, 1.5			1109																											
C-233, 1.5			1107																											
C-234, 1.5			1110																											
C-235, 1.5			1112																											
C-236, 1.5			1115																											
C-237, 1.5			1120																											
C-238, 1.5			1125																											
C-239, 1.5			1126																											
C-240, 1.5			1130																											
C-241, 1.5			1133																											
C-242, 1.5			1136																											
C-243, 0-1.5			1138																											
C-244, 0-1.5			1140																											

TOTAL

RELINQUISHED BY (Signature) DATE/TIME 9/20 930 RECEIVED BY (Signature)

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 4.6 THERM# IR8.20
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

880-19424 Chain of Custody

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19424 No. 2736

CHAIN-OF-CUSTODY

10/3/2022

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

DATE 9/20/2022 PAGE 2 OF 4

PO#. LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT # 21-6100-24 COLLECTOR: RM

Data Reported to

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST/NM

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

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-245, 2		9/19/22	1248	S	1				X		X			X	X	X													X		
C-246, 2			1250																												
C-247, 2			1252																												
C-248, 2			1254																												
C-249, 2			1258																												
C-250, 2			1302																												
C-251, 2			1305																												
C-252, 2'			1310																												
C-253, 2			1314																												
C-254, 2'			1340																												
C-255, 4.1			1342																												
C-256, 4.1			1344																												
C-257, 4.1			1347																												
C-258, 4.1			1349																												
C-259, 4.1			1351																												
TOTAL																															

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 41.6 THERM# IR8 26
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

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19424 No. 2737

CHAIN-OF-CUSTODY

10/3/2022

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 9/20/2022 PAGE 3 OF 4

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT #: 21-0100-24 COLLECTOR: PM

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX 4 ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 3	DIESEL - MOD 8015 4	OIL - MOD 8015 4	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP - PEST ☐	HERB ☐	TCLP VOC ☐	TOTAL METALS (RCRA) ☐	LEAD - TOTAL ☐	Semi-VOC ☐	D W 200 8 ☐	OTHER LIST ☐	TOX ☐	TCLP ☐	TDS ☐	TSS ☐	FLASHPOINT ☐	pH ☐	% MOISTURE ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE 4	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-260, 4.1		9/19/22	1359	S	1				X		X		X	X	X																												
C-261, 4.1		↓	1400	↓	↓				↓		↓		↓	↓	↓																												
C-262, 4.1			1404																																						
C-263, 4.1			1406																																						
C-264, 4.1			1408																																						
C-265, 4.1			1410																																						
C-267, 4.1			1412																																						
C-268, 4.1			1413																																						
C-269, 4.1			1415																																						
C-270, 4.1			1416																																						
C-271, 4.1			1418																																						
C-272, 4.1			1420																																						
C-273, 4.1			1421																																						
C-274, 4.1			1424																																						
C-275, 4.1		↓	1426	↓	↓				↓		↓		↓	↓	↓																												
TOTAL																																											

RELINQUISHED BY (Signature) DATE/TIME 9/20 930 RECEIVED BY (Signature)

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 4.1.6 THERM# IR8 -20
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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No. 2738

19424

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

DATE: 9/20/2022 PAGE 4 OF 4

PO# _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT #: 21-0100-24 COLLECTOR: pm

Data Reported to

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-266, 4.1		9/19/22	1411	S	1				X		X		X	X	X													X	
C-274, 4.1			1432																										
C-277, 4.1			1433																										
C-278, 4.1			1435																										
C-279, 4.1			1438																										
C-280, 4.1			1440																										
C-281, 4.1			1442																										
C-282, 4.1			1443																										
TOTAL																													

Loc: 880
19424

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	9/20 930	[signature]
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 4/.6 THERM# IR8 .20
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

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10/3/2022
Received by OCD: 4/10/2023 5:31:08 PM
Released to Imaging: 5/12/2023 11:29:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-19424-1
SDG Number: 21-0100-24

Login Number: 19424
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 12/20/2022 3:39:30 PM Revision 2

JOB DESCRIPTION

Limestone 1H
SDG NUMBER 21-0100-24

JOB NUMBER

880-21793-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

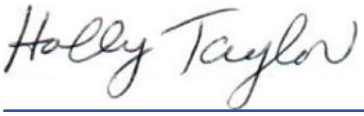
Released to Imaging: 5/12/2023 11:29:26 AM

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/20/2022 3:39:30 PM
Revision 2

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

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QC Sample Results 23
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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-21793-1
Project/Site: Limestone 1H SDG: 21-0100-24

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Job ID: 880-21793-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-21793-1

Revision
The report being provided is a revision of the original report sent on 11/22/2022. The report (revision 2) is being revised to change sample ID for sample 16 from C315 to C215 per Robert Nelson (email).

Report revision history
Revision 1 - 12/12/2022 - Reason - to change the sample ID from C-49 4' to C-48 4' per Robert Nelson (email).

Receipt
The samples were received on 11/21/2022 8:55 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 -2.2º C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C29 4' (880-21793-1), C34 4' (880-21793-2), C35 4' (880-21793-3), C44 4' (880-21793-4), C45 4' (880-21793-5), C43 4' (880-21793-6), C42 4' (880-21793-7), C38 4' (880-21793-8), C39 4' (880-21793-9), C40 4' (880-21793-10), C48 4' (880-21793-11), C36 4' (880-21793-12), C37 4' (880-21793-13), C33 4' (880-21793-14), C209 2.5 (880-21793-15), C215 2.5 (880-21793-16), C252 2.5 (880-21793-17), C250 2.5 (880-21793-18), C236 4 (880-21793-19) and C241 4 (880-21793-20).

The following samples were found to be frozen solid upon receipt by the laboratory. The samples and containers appeared to be intact. C29 4' (880-21793-1), C34 4' (880-21793-2), C35 4' (880-21793-3), C44 4' (880-21793-4), C45 4' (880-21793-5), C43 4' (880-21793-6), C42 4' (880-21793-7), C38 4' (880-21793-8), C39 4' (880-21793-9), C40 4' (880-21793-10), C48 4' (880-21793-11), C36 4' (880-21793-12), C37 4' (880-21793-13), C33 4' (880-21793-14), C209 2.5 (880-21793-15), C215 2.5 (880-21793-16), C252 2.5 (880-21793-17), C250 2.5 (880-21793-18), C236 4 (880-21793-19) and C241 4 (880-21793-20)

GC VOA
Method 8021B: The following sample was taken off of hold for analysis outside of holding time: (880-21170-A-1-D).

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: Surrogate recovery for the following samples were outside control limits: (LCS 880-40138/2-A) and (LCSD 880-40138/3-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
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C29 4'

Date Collected: 11/17/22 12:35
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 14:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 14:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 14:06	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/21/22 09:48	11/21/22 14:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 14:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/22 09:48	11/21/22 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/21/22 09:48*	*11/21/22 14:06*	*1*
1,4-Difluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*11/21/22 09:48*	*11/21/22 14:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/21/22 21:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/21/22 21:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/21/22 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*11/21/22 17:49*	*11/21/22 21:40*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*11/21/22 17:49*	*11/21/22 21:40*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**603**		5.01		mg/Kg			11/21/22 14:51	1

Client Sample ID: C34 4'

Date Collected: 11/17/22 12:45
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 14:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 14:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 14:26	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/21/22 09:48	11/21/22 14:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 14:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/22 09:48	11/21/22 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*11/21/22 09:48*	*11/21/22 14:26*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/21/22 09:48*	*11/21/22 14:26*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C34 4'

Date Collected: 11/17/22 12:45
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/21/22 22:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/21/22 22:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/21/22 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*11/21/22 17:49*	*11/21/22 22:44*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*11/21/22 17:49*	*11/21/22 22:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**286**		4.99		mg/Kg			11/21/22 15:08	1

Client Sample ID: C35 4'

Date Collected: 11/17/22 12:55
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 14:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 14:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 14:47	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/21/22 09:48	11/21/22 14:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 14:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/22 09:48	11/21/22 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*11/21/22 09:48*	*11/21/22 14:47*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/21/22 09:48*	*11/21/22 14:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/21/22 23:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/21/22 17:49	11/21/22 23:06	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C35 4'

Date Collected: 11/17/22 12:55
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-3

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/21/22 17:49	11/21/22 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*11/21/22 17:49*	*11/21/22 23:06*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*11/21/22 17:49*	*11/21/22 23:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**547**		4.96		mg/Kg			11/21/22 15:13	1

Client Sample ID: C44 4'

Date Collected: 11/17/22 14:20
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-4

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:48	11/21/22 15:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:48	11/21/22 15:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:48	11/21/22 15:08	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		11/21/22 09:48	11/21/22 15:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:48	11/21/22 15:08	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/21/22 09:48	11/21/22 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*11/21/22 09:48*	*11/21/22 15:08*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/21/22 09:48*	*11/21/22 15:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/21/22 23:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/21/22 23:27	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/21/22 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*11/21/22 17:49*	*11/21/22 23:27*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*11/21/22 17:49*	*11/21/22 23:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**452**		5.04		mg/Kg			11/21/22 15:19	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C45 4'

Date Collected: 11/17/22 14:30
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-5

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 16:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 16:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 16:31	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/21/22 09:48	11/21/22 16:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 16:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/21/22 09:48	11/21/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*11/21/22 09:48*	*11/21/22 16:31*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/21/22 09:48*	*11/21/22 16:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/21/22 23:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/21/22 23:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/21/22 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*11/21/22 17:49*	*11/21/22 23:49*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*11/21/22 17:49*	*11/21/22 23:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**856**		5.00		mg/Kg			11/21/22 15:25	1

Client Sample ID: C43 4'

Date Collected: 11/18/22 10:35
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-6

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 16:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 16:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 16:52	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/21/22 09:48	11/21/22 16:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 16:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/22 09:48	11/21/22 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*11/21/22 09:48*	*11/21/22 16:52*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/21/22 09:48*	*11/21/22 16:52*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C43 4'

Date Collected: 11/18/22 10:35
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 00:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 00:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*11/21/22 17:49*	*11/22/22 00:10*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*11/21/22 17:49*	*11/22/22 00:10*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		4.95		mg/Kg			11/21/22 15:42	1

Client Sample ID: C42 4'

Date Collected: 11/18/22 10:45
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:48	11/21/22 17:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:48	11/21/22 17:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:48	11/21/22 17:12	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/21/22 09:48	11/21/22 17:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:48	11/21/22 17:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/21/22 09:48	11/21/22 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*11/21/22 09:48*	*11/21/22 17:12*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*11/21/22 09:48*	*11/21/22 17:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 00:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 00:32	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C42 4'

Date Collected: 11/18/22 10:45
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-7

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*11/21/22 17:49*	*11/22/22 00:32*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*11/21/22 17:49*	*11/22/22 00:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**725**		5.02		mg/Kg			11/21/22 15:47	1

Client Sample ID: C38 4'

Date Collected: 11/18/22 11:05
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-8

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/21/22 09:48	11/21/22 17:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/21/22 09:48	11/21/22 17:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/21/22 09:48	11/21/22 17:33	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		11/21/22 09:48	11/21/22 17:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/21/22 09:48	11/21/22 17:33	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/21/22 09:48	11/21/22 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*11/21/22 09:48*	*11/21/22 17:33*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/21/22 09:48*	*11/21/22 17:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 00:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 00:53	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*11/21/22 17:49*	*11/22/22 00:53*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*11/21/22 17:49*	*11/22/22 00:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**705**		4.98		mg/Kg			11/21/22 15:53	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C39 4'

Date Collected: 11/18/22 11:15
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-9

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 17:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 17:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 17:54	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/21/22 09:48	11/21/22 17:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 17:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/21/22 09:48	11/21/22 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*11/21/22 09:48*	*11/21/22 17:54*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/21/22 09:48*	*11/21/22 17:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 01:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 01:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*11/21/22 17:49*	*11/22/22 01:15*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*11/21/22 17:49*	*11/22/22 01:15*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**514**		4.95		mg/Kg			11/21/22 15:58	1

Client Sample ID: C40 4'

Date Collected: 11/18/22 11:30
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-10

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:48	11/21/22 18:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:48	11/21/22 18:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:48	11/21/22 18:15	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/21/22 09:48	11/21/22 18:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:48	11/21/22 18:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/21/22 09:48	11/21/22 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*11/21/22 09:48*	*11/21/22 18:15*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/21/22 09:48*	*11/21/22 18:15*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C40 4'

Date Collected: 11/18/22 11:30
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 01:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 01:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*11/21/22 17:49*	*11/22/22 01:37*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*11/21/22 17:49*	*11/22/22 01:37*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**622**		4.99		mg/Kg			11/21/22 16:04	1

Client Sample ID: C48 4'

Date Collected: 11/18/22 11:27
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 18:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 18:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 18:35	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/21/22 09:48	11/21/22 18:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 18:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/22 09:48	11/21/22 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*11/21/22 09:48*	*11/21/22 18:35*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/21/22 09:48*	*11/21/22 18:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 02:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 02:20	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C48 4'

Lab Sample ID: 880-21793-11
Matrix: Solid
Date Collected: 11/18/22 11:27
Date Received: 11/21/22 08:55

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*11/21/22 17:49*	*11/22/22 02:20*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*11/21/22 17:49*	*11/22/22 02:20*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**469**		4.97		mg/Kg			11/21/22 16:10	1

Client Sample ID: C36 4'

Lab Sample ID: 880-21793-12
Matrix: Solid
Date Collected: 11/18/22 11:44
Date Received: 11/21/22 08:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/21/22 09:48	11/21/22 18:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/21/22 09:48	11/21/22 18:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/21/22 09:48	11/21/22 18:56	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		11/21/22 09:48	11/21/22 18:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/21/22 09:48	11/21/22 18:56	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/21/22 09:48	11/21/22 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*11/21/22 09:48*	*11/21/22 18:56*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/21/22 09:48*	*11/21/22 18:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 02:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 02:41	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*11/21/22 17:49*	*11/22/22 02:41*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*11/21/22 17:49*	*11/22/22 02:41*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**689**		4.95		mg/Kg			11/21/22 16:27	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C37 4'

Date Collected: 11/18/22 11:52
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-13
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:48	11/21/22 19:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:48	11/21/22 19:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:48	11/21/22 19:16	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		11/21/22 09:48	11/21/22 19:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:48	11/21/22 19:16	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/21/22 09:48	11/21/22 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*11/21/22 09:48*	*11/21/22 19:16*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/21/22 09:48*	*11/21/22 19:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 03:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 03:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*11/21/22 17:49*	*11/22/22 03:02*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*11/21/22 17:49*	*11/22/22 03:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**506**		4.97		mg/Kg			11/21/22 16:33	1

Client Sample ID: C33 4'

Date Collected: 11/18/22 12:20
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-14
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 19:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 19:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 19:37	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/21/22 09:48	11/21/22 19:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:48	11/21/22 19:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/22 09:48	11/21/22 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*11/21/22 09:48*	*11/21/22 19:37*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/21/22 09:48*	*11/21/22 19:37*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21793-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C33 4'
Lab Sample ID: 880-21793-14
Date Collected: 11/18/22 12:20 **Matrix: Solid**
Date Received: 11/21/22 08:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 03:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 03:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*11/21/22 17:49*	*11/22/22 03:23*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*11/21/22 17:49*	*11/22/22 03:23*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**520**		5.00		mg/Kg			11/21/22 16:50	1

Client Sample ID: C209 2.5
Lab Sample ID: 880-21793-15
Date Collected: 11/15/22 00:00 **Matrix: Solid**
Date Received: 11/21/22 08:55

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/21/22 13:09	11/21/22 22:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/21/22 13:09	11/21/22 22:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/21/22 13:09	11/21/22 22:34	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		11/21/22 13:09	11/21/22 22:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/21/22 13:09	11/21/22 22:34	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/21/22 13:09	11/21/22 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*11/21/22 13:09*	*11/21/22 22:34*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/21/22 13:09*	*11/21/22 22:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/22/22 15:45	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 03:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 03:45	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C209 2.5

Date Collected: 11/15/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-15
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*11/21/22 17:49*	*11/22/22 03:45*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*11/21/22 17:49*	*11/22/22 03:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.2**		5.00		mg/Kg			11/21/22 16:55	1

Client Sample ID: C215 2.5

Date Collected: 11/15/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-16
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/21/22 13:09	11/21/22 22:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/22 13:09	11/21/22 22:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/22 13:09	11/21/22 22:55	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/21/22 13:09	11/21/22 22:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/22 13:09	11/21/22 22:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/22 13:09	11/21/22 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*11/21/22 13:09*	*11/21/22 22:55*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/21/22 13:09*	*11/21/22 22:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:45	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 04:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 04:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*11/21/22 17:49*	*11/22/22 04:07*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*11/21/22 17:49*	*11/22/22 04:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.5**		4.99		mg/Kg			11/21/22 17:01	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C252 2.5

Date Collected: 11/15/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-17

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/21/22 13:09	11/21/22 23:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/22 13:09	11/21/22 23:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/22 13:09	11/21/22 23:15	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/21/22 13:09	11/21/22 23:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/22 13:09	11/21/22 23:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/22 13:09	11/21/22 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/21/22 13:09*	*11/21/22 23:15*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/21/22 13:09*	*11/21/22 23:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:45	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 04:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 04:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*11/21/22 17:49*	*11/22/22 04:29*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*11/21/22 17:49*	*11/22/22 04:29*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.9**		4.95		mg/Kg			11/21/22 17:07	1

Client Sample ID: C250 2.5

Date Collected: 11/15/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-18

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/22 13:09	11/21/22 23:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/22 13:09	11/21/22 23:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/22 13:09	11/21/22 23:35	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/21/22 13:09	11/21/22 23:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/22 13:09	11/21/22 23:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/22 13:09	11/21/22 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/21/22 13:09*	*11/21/22 23:35*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*11/21/22 13:09*	*11/21/22 23:35*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C250 2.5

Date Collected: 11/15/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-18
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/22/22 15:45	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 04:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 04:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*11/21/22 17:49*	*11/22/22 04:50*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*11/21/22 17:49*	*11/22/22 04:50*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.7**		5.05		mg/Kg			11/21/22 17:12	1

Client Sample ID: C236 4

Date Collected: 11/16/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-19
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/21/22 13:09	11/21/22 23:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/21/22 13:09	11/21/22 23:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/21/22 13:09	11/21/22 23:56	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/21/22 13:09	11/21/22 23:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/21/22 13:09	11/21/22 23:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/21/22 13:09	11/21/22 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/21/22 13:09*	*11/21/22 23:56*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*11/21/22 13:09*	*11/21/22 23:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/22/22 15:45	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 05:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 05:12	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C236 4

Date Collected: 11/16/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-19

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/22/22 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*11/21/22 17:49*	*11/22/22 05:12*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*11/21/22 17:49*	*11/22/22 05:12*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**713**		5.00		mg/Kg			11/21/22 17:18	1

Client Sample ID: C241 4

Date Collected: 11/16/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-20

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/21/22 13:09	11/22/22 00:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/22 13:09	11/22/22 00:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/22 13:09	11/22/22 00:16	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/21/22 13:09	11/22/22 00:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/22 13:09	11/22/22 00:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/22 13:09	11/22/22 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*11/21/22 13:09*	*11/22/22 00:16*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/21/22 13:09*	*11/22/22 00:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:45	1

Method: SW846 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			11/22/22 10:48	1

Method: SW846 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		11/21/22 17:49	11/22/22 05:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 05:34	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/22 17:49	11/22/22 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*11/21/22 17:49*	*11/22/22 05:34*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*11/21/22 17:49*	*11/22/22 05:34*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1480**		24.8		mg/Kg			11/21/22 17:24	5

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

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)
880-21793-1	C29 4'	93	61 S1-
880-21793-2	C34 4'	128	106
880-21793-3	C35 4'	121	105
880-21793-4	C44 4'	129	110
880-21793-5	C45 4'	113	95
880-21793-6	C43 4'	124	108
880-21793-7	C42 4'	124	117
880-21793-8	C38 4'	119	105
880-21793-9	C39 4'	129	106
880-21793-10	C40 4'	123	102
880-21793-11	C48 4'	125	103
880-21793-12	C36 4'	132 S1+	105
880-21793-13	C37 4'	138 S1+	102
880-21793-14	C33 4'	134 S1+	102
880-21793-15	C209 2.5	106	100
880-21793-15 MS	C209 2.5	101	112
880-21793-15 MSD	C209 2.5	100	118
880-21793-16	C215 2.5	100	104
880-21793-17	C252 2.5	101	102
880-21793-18	C250 2.5	95	93
880-21793-19	C236 4	98	91
880-21793-20	C241 4	99	103
LCS 880-40068/1-A	Lab Control Sample	86	98
LCS 880-40109/1-A	Lab Control Sample	102	115
LCSD 880-40068/2-A	Lab Control Sample Dup	88	97
LCSD 880-40109/2-A	Lab Control Sample Dup	128	111
MB 880-40066/5-A	Method Blank	80	102
MB 880-40068/5-A	Method Blank	101	92
MB 880-40109/5-A	Method Blank	84	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-21793-1	C29 4'	91	98
880-21793-1 MS	C29 4'	99	96
880-21793-1 MSD	C29 4'	99	96
880-21793-2	C34 4'	89	97
880-21793-3	C35 4'	107	116
880-21793-4	C44 4'	89	97
880-21793-5	C45 4'	101	109
880-21793-6	C43 4'	102	110
880-21793-7	C42 4'	86	94
880-21793-8	C38 4'	98	107

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-21793-1
Project/Site: Limestone 1H SDG: 21-0100-24

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)								
880-21793-9	C39 4'	88	95								
880-21793-10	C40 4'	88	95								
880-21793-11	C48 4'	103	111								
880-21793-12	C36 4'	89	97								
880-21793-13	C37 4'	102	110								
880-21793-14	C33 4'	100	108								
880-21793-15	C209 2.5	87	94								
880-21793-16	C215 2.5	91	98								
880-21793-17	C252 2.5	86	94								
880-21793-18	C250 2.5	87	94								
880-21793-19	C236 4	89	97								
880-21793-20	C241 4	90	98								
LCS 880-40138/2-A	Lab Control Sample	164 S1+	177 S1+								
LCSD 880-40138/3-A	Lab Control Sample Dup	160 S1+	173 S1+								
MB 880-40138/1-A	Method Blank	111	124								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40066/5-A
Matrix: Solid
Analysis Batch: 40035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40066

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:38	11/21/22 11:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:38	11/21/22 11:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:38	11/21/22 11:39	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/21/22 09:38	11/21/22 11:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:38	11/21/22 11:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/22 09:38	11/21/22 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*11/21/22 09:38*	*11/21/22 11:39*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/21/22 09:38*	*11/21/22 11:39*	*1*

Lab Sample ID: MB 880-40068/5-A
Matrix: Solid
Analysis Batch: 40037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40068

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/22 09:48	11/21/22 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/21/22 09:48*	*11/21/22 11:40*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*11/21/22 09:48*	*11/21/22 11:40*	*1*

Lab Sample ID: LCS 880-40068/1-A
Matrix: Solid
Analysis Batch: 40037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40068

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08868		mg/Kg		89	70 - 130		
Toluene			0.100	0.09712		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09550		mg/Kg		96	70 - 130		
m,p-Xylenes			0.200	0.1825		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.1022		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-40068/2-A
Matrix: Solid
Analysis Batch: 40037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40068

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08887		mg/Kg		89	70 - 130	0	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-40068/2-A
Matrix: Solid
Analysis Batch: 40037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40068

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09792		mg/Kg		98	70 - 130	1	35
Ethylbenzene			0.100	0.09610		mg/Kg		96	70 - 130	1	35
m,p-Xylenes			0.200	0.1859		mg/Kg		93	70 - 130	2	35
o-Xylene			0.100	0.1067		mg/Kg		107	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-40109/5-A
Matrix: Solid
Analysis Batch: 40035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40109

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/22 13:09	11/21/22 22:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/22 13:09	11/21/22 22:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/22 13:09	11/21/22 22:13	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/21/22 13:09	11/21/22 22:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/22 13:09	11/21/22 22:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/22 13:09	11/21/22 22:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*11/21/22 13:09*	*11/21/22 22:13*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/21/22 13:09*	*11/21/22 22:13*	*1*

Lab Sample ID: LCS 880-40109/1-A
Matrix: Solid
Analysis Batch: 40035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40109

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	0.09743		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09830		mg/Kg		98	70 - 130		
m,p-Xylenes			0.200	0.1999		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.1042		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: LCSD 880-40109/2-A
Matrix: Solid
Analysis Batch: 40035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40109

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09455		mg/Kg		95	70 - 130	5	35
Toluene			0.100	0.09528		mg/Kg		95	70 - 130	2	35
Ethylbenzene			0.100	0.1147		mg/Kg		115	70 - 130	15	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-40109/2-A
Matrix: Solid
Analysis Batch: 40035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40109

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			0.200	0.2358		mg/Kg		118	70 - 130	16	35
o-Xylene			0.100	0.1218		mg/Kg		122	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 880-21793-15 MS
Matrix: Solid
Analysis Batch: 40035

Client Sample ID: C209 2.5
Prep Type: Total/NA
Prep Batch: 40109

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.101	0.08957		mg/Kg		89	70 - 130
Toluene	<0.00202	U	0.101	0.08473		mg/Kg		83	70 - 130
Ethylbenzene	<0.00202	U	0.101	0.08464		mg/Kg		84	70 - 130
m,p-Xylenes	<0.00404	U	0.202	0.1697		mg/Kg		84	70 - 130
o-Xylene	<0.00202	U	0.101	0.08600		mg/Kg		85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-21793-15 MSD
Matrix: Solid
Analysis Batch: 40035

Client Sample ID: C209 2.5
Prep Type: Total/NA
Prep Batch: 40109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0994	0.09537		mg/Kg		96	70 - 130	6	35
Toluene	<0.00202	U	0.0994	0.08816		mg/Kg		88	70 - 130	4	35
Ethylbenzene	<0.00202	U	0.0994	0.08459		mg/Kg		85	70 - 130	0	35
m,p-Xylenes	<0.00404	U	0.199	0.1740		mg/Kg		88	70 - 130	2	35
o-Xylene	<0.00202	U	0.0994	0.08833		mg/Kg		88	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

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

Lab Sample ID: MB 880-40138/1-A
Matrix: Solid
Analysis Batch: 40026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40138

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		11/21/22 17:49	11/21/22 20:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/21/22 20:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/22 17:49	11/21/22 20:36	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	11/21/22 17:49	11/21/22 20:36	1
o-Terphenyl (Surr)	124		70 - 130	11/21/22 17:49	11/21/22 20:36	1

Lab Sample ID: LCS 880-40138/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40026 — **Prep Batch: 40138**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	842.5		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	928.2		mg/Kg		93	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	164	S1+	70 - 130
o-Terphenyl (Surr)	177	S1+	70 - 130

Lab Sample ID: LCSD 880-40138/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40026 — **Prep Batch: 40138**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	896.8		mg/Kg		90	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	898.7		mg/Kg		90	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	160	S1+	70 - 130
o-Terphenyl (Surr)	173	S1+	70 - 130

Lab Sample ID: 880-21793-1 MS — **Client Sample ID: C29 4'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40026 — **Prep Batch: 40138**

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	998	864.2		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1029		mg/Kg		101	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	96		70 - 130

Lab Sample ID: 880-21793-1 MSD — **Client Sample ID: C29 4'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40026 — **Prep Batch: 40138**

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	997	868.0		mg/Kg		83	70 - 130	0	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

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

Lab Sample ID: 880-21793-1 MSD — **Client Sample ID: C29 4'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40026 — **Prep Batch: 40138**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1040		mg/Kg		102	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*99*		*70 - 130*
o-Terphenyl (Surr)	*96*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40067/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 40112

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/21/22 14:34	1

Lab Sample ID: LCS 880-40067/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 40112

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.4		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-40067/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 40112

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	258.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-21793-1 MS — **Client Sample ID: C29 4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 40112

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	603		251	847.8		mg/Kg		98	90 - 110		

Lab Sample ID: 880-21793-1 MSD — **Client Sample ID: C29 4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 40112

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	603		251	846.1		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-21793-11 MS — **Client Sample ID: C48 4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 40112

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	469		249	726.5		mg/Kg		104	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-21793-11 MSD
Matrix: Solid
Analysis Batch: 40112

Client Sample ID: C48 4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	469		249	720.7		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

GC VOA

Analysis Batch: 40035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21793-15	C209 2.5	Total/NA	Solid	8021B	40109
880-21793-16	C215 2.5	Total/NA	Solid	8021B	40109
880-21793-17	C252 2.5	Total/NA	Solid	8021B	40109
880-21793-18	C250 2.5	Total/NA	Solid	8021B	40109
880-21793-19	C236 4	Total/NA	Solid	8021B	40109
880-21793-20	C241 4	Total/NA	Solid	8021B	40109
MB 880-40066/5-A	Method Blank	Total/NA	Solid	8021B	40066
MB 880-40109/5-A	Method Blank	Total/NA	Solid	8021B	40109
LCS 880-40109/1-A	Lab Control Sample	Total/NA	Solid	8021B	40109
LCSD 880-40109/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40109
880-21793-15 MS	C209 2.5	Total/NA	Solid	8021B	40109
880-21793-15 MSD	C209 2.5	Total/NA	Solid	8021B	40109

Analysis Batch: 40037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21793-1	C29 4'	Total/NA	Solid	8021B	40068
880-21793-2	C34 4'	Total/NA	Solid	8021B	40068
880-21793-3	C35 4'	Total/NA	Solid	8021B	40068
880-21793-4	C44 4'	Total/NA	Solid	8021B	40068
880-21793-5	C45 4'	Total/NA	Solid	8021B	40068
880-21793-6	C43 4'	Total/NA	Solid	8021B	40068
880-21793-7	C42 4'	Total/NA	Solid	8021B	40068
880-21793-8	C38 4'	Total/NA	Solid	8021B	40068
880-21793-9	C39 4'	Total/NA	Solid	8021B	40068
880-21793-10	C40 4'	Total/NA	Solid	8021B	40068
880-21793-11	C48 4'	Total/NA	Solid	8021B	40068
880-21793-12	C36 4'	Total/NA	Solid	8021B	40068
880-21793-13	C37 4'	Total/NA	Solid	8021B	40068
880-21793-14	C33 4'	Total/NA	Solid	8021B	40068
MB 880-40068/5-A	Method Blank	Total/NA	Solid	8021B	40068
LCS 880-40068/1-A	Lab Control Sample	Total/NA	Solid	8021B	40068
LCSD 880-40068/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40068

Prep Batch: 40066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40066/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 40068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21793-1	C29 4'	Total/NA	Solid	5035	
880-21793-2	C34 4'	Total/NA	Solid	5035	
880-21793-3	C35 4'	Total/NA	Solid	5035	
880-21793-4	C44 4'	Total/NA	Solid	5035	
880-21793-5	C45 4'	Total/NA	Solid	5035	
880-21793-6	C43 4'	Total/NA	Solid	5035	
880-21793-7	C42 4'	Total/NA	Solid	5035	
880-21793-8	C38 4'	Total/NA	Solid	5035	
880-21793-9	C39 4'	Total/NA	Solid	5035	
880-21793-10	C40 4'	Total/NA	Solid	5035	
880-21793-11	C48 4'	Total/NA	Solid	5035	
880-21793-12	C36 4'	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

GC VOA (Continued)

Prep Batch: 40068 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21793-13	C37 4'	Total/NA	Solid	5035	
880-21793-14	C33 4'	Total/NA	Solid	5035	
MB 880-40068/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40068/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40068/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 40109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21793-15	C209 2.5	Total/NA	Solid	5035	
880-21793-16	C215 2.5	Total/NA	Solid	5035	
880-21793-17	C252 2.5	Total/NA	Solid	5035	
880-21793-18	C250 2.5	Total/NA	Solid	5035	
880-21793-19	C236 4	Total/NA	Solid	5035	
880-21793-20	C241 4	Total/NA	Solid	5035	
MB 880-40109/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40109/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40109/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21793-15 MS	C209 2.5	Total/NA	Solid	5035	
880-21793-15 MSD	C209 2.5	Total/NA	Solid	5035	

Analysis Batch: 40230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21793-1	C29 4'	Total/NA	Solid	Total BTEX	
880-21793-2	C34 4'	Total/NA	Solid	Total BTEX	
880-21793-3	C35 4'	Total/NA	Solid	Total BTEX	
880-21793-4	C44 4'	Total/NA	Solid	Total BTEX	
880-21793-5	C45 4'	Total/NA	Solid	Total BTEX	
880-21793-6	C43 4'	Total/NA	Solid	Total BTEX	
880-21793-7	C42 4'	Total/NA	Solid	Total BTEX	
880-21793-8	C38 4'	Total/NA	Solid	Total BTEX	
880-21793-9	C39 4'	Total/NA	Solid	Total BTEX	
880-21793-10	C40 4'	Total/NA	Solid	Total BTEX	
880-21793-11	C48 4'	Total/NA	Solid	Total BTEX	
880-21793-12	C36 4'	Total/NA	Solid	Total BTEX	
880-21793-13	C37 4'	Total/NA	Solid	Total BTEX	
880-21793-14	C33 4'	Total/NA	Solid	Total BTEX	
880-21793-15	C209 2.5	Total/NA	Solid	Total BTEX	
880-21793-16	C215 2.5	Total/NA	Solid	Total BTEX	
880-21793-17	C252 2.5	Total/NA	Solid	Total BTEX	
880-21793-18	C250 2.5	Total/NA	Solid	Total BTEX	
880-21793-19	C236 4	Total/NA	Solid	Total BTEX	
880-21793-20	C241 4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 40026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21793-1	C29 4'	Total/NA	Solid	8015B NM	40138
880-21793-2	C34 4'	Total/NA	Solid	8015B NM	40138
880-21793-3	C35 4'	Total/NA	Solid	8015B NM	40138
880-21793-4	C44 4'	Total/NA	Solid	8015B NM	40138

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 40026 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21793-5	C45 4'	Total/NA	Solid	8015B NM	40138
880-21793-6	C43 4'	Total/NA	Solid	8015B NM	40138
880-21793-7	C42 4'	Total/NA	Solid	8015B NM	40138
880-21793-8	C38 4'	Total/NA	Solid	8015B NM	40138
880-21793-9	C39 4'	Total/NA	Solid	8015B NM	40138
880-21793-10	C40 4'	Total/NA	Solid	8015B NM	40138
880-21793-11	C48 4'	Total/NA	Solid	8015B NM	40138
880-21793-12	C36 4'	Total/NA	Solid	8015B NM	40138
880-21793-13	C37 4'	Total/NA	Solid	8015B NM	40138
880-21793-14	C33 4'	Total/NA	Solid	8015B NM	40138
880-21793-15	C209 2.5	Total/NA	Solid	8015B NM	40138
880-21793-16	C215 2.5	Total/NA	Solid	8015B NM	40138
880-21793-17	C252 2.5	Total/NA	Solid	8015B NM	40138
880-21793-18	C250 2.5	Total/NA	Solid	8015B NM	40138
880-21793-19	C236 4	Total/NA	Solid	8015B NM	40138
880-21793-20	C241 4	Total/NA	Solid	8015B NM	40138
MB 880-40138/1-A	Method Blank	Total/NA	Solid	8015B NM	40138
LCS 880-40138/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40138
LCSD 880-40138/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40138
880-21793-1 MS	C29 4'	Total/NA	Solid	8015B NM	40138
880-21793-1 MSD	C29 4'	Total/NA	Solid	8015B NM	40138

Prep Batch: 40138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21793-1	C29 4'	Total/NA	Solid	8015NM Prep	
880-21793-2	C34 4'	Total/NA	Solid	8015NM Prep	
880-21793-3	C35 4'	Total/NA	Solid	8015NM Prep	
880-21793-4	C44 4'	Total/NA	Solid	8015NM Prep	
880-21793-5	C45 4'	Total/NA	Solid	8015NM Prep	
880-21793-6	C43 4'	Total/NA	Solid	8015NM Prep	
880-21793-7	C42 4'	Total/NA	Solid	8015NM Prep	
880-21793-8	C38 4'	Total/NA	Solid	8015NM Prep	
880-21793-9	C39 4'	Total/NA	Solid	8015NM Prep	
880-21793-10	C40 4'	Total/NA	Solid	8015NM Prep	
880-21793-11	C48 4'	Total/NA	Solid	8015NM Prep	
880-21793-12	C36 4'	Total/NA	Solid	8015NM Prep	
880-21793-13	C37 4'	Total/NA	Solid	8015NM Prep	
880-21793-14	C33 4'	Total/NA	Solid	8015NM Prep	
880-21793-15	C209 2.5	Total/NA	Solid	8015NM Prep	
880-21793-16	C215 2.5	Total/NA	Solid	8015NM Prep	
880-21793-17	C252 2.5	Total/NA	Solid	8015NM Prep	
880-21793-18	C250 2.5	Total/NA	Solid	8015NM Prep	
880-21793-19	C236 4	Total/NA	Solid	8015NM Prep	
880-21793-20	C241 4	Total/NA	Solid	8015NM Prep	
MB 880-40138/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40138/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40138/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21793-1 MS	C29 4'	Total/NA	Solid	8015NM Prep	
880-21793-1 MSD	C29 4'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

GC Semi VOA

Analysis Batch: 40208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21793-1	C29 4'	Total/NA	Solid	8015 NM	
880-21793-2	C34 4'	Total/NA	Solid	8015 NM	
880-21793-3	C35 4'	Total/NA	Solid	8015 NM	
880-21793-4	C44 4'	Total/NA	Solid	8015 NM	
880-21793-5	C45 4'	Total/NA	Solid	8015 NM	
880-21793-6	C43 4'	Total/NA	Solid	8015 NM	
880-21793-7	C42 4'	Total/NA	Solid	8015 NM	
880-21793-8	C38 4'	Total/NA	Solid	8015 NM	
880-21793-9	C39 4'	Total/NA	Solid	8015 NM	
880-21793-10	C40 4'	Total/NA	Solid	8015 NM	
880-21793-11	C48 4'	Total/NA	Solid	8015 NM	
880-21793-12	C36 4'	Total/NA	Solid	8015 NM	
880-21793-13	C37 4'	Total/NA	Solid	8015 NM	
880-21793-14	C33 4'	Total/NA	Solid	8015 NM	
880-21793-15	C209 2.5	Total/NA	Solid	8015 NM	
880-21793-16	C215 2.5	Total/NA	Solid	8015 NM	
880-21793-17	C252 2.5	Total/NA	Solid	8015 NM	
880-21793-18	C250 2.5	Total/NA	Solid	8015 NM	
880-21793-19	C236 4	Total/NA	Solid	8015 NM	
880-21793-20	C241 4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21793-1	C29 4'	Soluble	Solid	DI Leach	
880-21793-2	C34 4'	Soluble	Solid	DI Leach	
880-21793-3	C35 4'	Soluble	Solid	DI Leach	
880-21793-4	C44 4'	Soluble	Solid	DI Leach	
880-21793-5	C45 4'	Soluble	Solid	DI Leach	
880-21793-6	C43 4'	Soluble	Solid	DI Leach	
880-21793-7	C42 4'	Soluble	Solid	DI Leach	
880-21793-8	C38 4'	Soluble	Solid	DI Leach	
880-21793-9	C39 4'	Soluble	Solid	DI Leach	
880-21793-10	C40 4'	Soluble	Solid	DI Leach	
880-21793-11	C48 4'	Soluble	Solid	DI Leach	
880-21793-12	C36 4'	Soluble	Solid	DI Leach	
880-21793-13	C37 4'	Soluble	Solid	DI Leach	
880-21793-14	C33 4'	Soluble	Solid	DI Leach	
880-21793-15	C209 2.5	Soluble	Solid	DI Leach	
880-21793-16	C215 2.5	Soluble	Solid	DI Leach	
880-21793-17	C252 2.5	Soluble	Solid	DI Leach	
880-21793-18	C250 2.5	Soluble	Solid	DI Leach	
880-21793-19	C236 4	Soluble	Solid	DI Leach	
880-21793-20	C241 4	Soluble	Solid	DI Leach	
MB 880-40067/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40067/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40067/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21793-1 MS	C29 4'	Soluble	Solid	DI Leach	
880-21793-1 MSD	C29 4'	Soluble	Solid	DI Leach	
880-21793-11 MS	C48 4'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

HPLC/IC (Continued)

Leach Batch: 40067 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21793-11 MSD	C48 4'	Soluble	Solid	DI Leach	

Analysis Batch: 40112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21793-1	C29 4'	Soluble	Solid	300.0	40067
880-21793-2	C34 4'	Soluble	Solid	300.0	40067
880-21793-3	C35 4'	Soluble	Solid	300.0	40067
880-21793-4	C44 4'	Soluble	Solid	300.0	40067
880-21793-5	C45 4'	Soluble	Solid	300.0	40067
880-21793-6	C43 4'	Soluble	Solid	300.0	40067
880-21793-7	C42 4'	Soluble	Solid	300.0	40067
880-21793-8	C38 4'	Soluble	Solid	300.0	40067
880-21793-9	C39 4'	Soluble	Solid	300.0	40067
880-21793-10	C40 4'	Soluble	Solid	300.0	40067
880-21793-11	C48 4'	Soluble	Solid	300.0	40067
880-21793-12	C36 4'	Soluble	Solid	300.0	40067
880-21793-13	C37 4'	Soluble	Solid	300.0	40067
880-21793-14	C33 4'	Soluble	Solid	300.0	40067
880-21793-15	C209 2.5	Soluble	Solid	300.0	40067
880-21793-16	C215 2.5	Soluble	Solid	300.0	40067
880-21793-17	C252 2.5	Soluble	Solid	300.0	40067
880-21793-18	C250 2.5	Soluble	Solid	300.0	40067
880-21793-19	C236 4	Soluble	Solid	300.0	40067
880-21793-20	C241 4	Soluble	Solid	300.0	40067
MB 880-40067/1-A	Method Blank	Soluble	Solid	300.0	40067
LCS 880-40067/2-A	Lab Control Sample	Soluble	Solid	300.0	40067
LCSD 880-40067/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40067
880-21793-1 MS	C29 4'	Soluble	Solid	300.0	40067
880-21793-1 MSD	C29 4'	Soluble	Solid	300.0	40067
880-21793-11 MS	C48 4'	Soluble	Solid	300.0	40067
880-21793-11 MSD	C48 4'	Soluble	Solid	300.0	40067

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C29 4'
Date Collected: 11/17/22 12:35
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 14:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/21/22 21:40	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 14:51	CH	EET MID

Client Sample ID: C34 4'
Date Collected: 11/17/22 12:45
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 14:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/21/22 22:44	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 15:08	CH	EET MID

Client Sample ID: C35 4'
Date Collected: 11/17/22 12:55
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 14:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/21/22 23:06	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 15:13	CH	EET MID

Client Sample ID: C44 4'
Date Collected: 11/17/22 14:20
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 15:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C44 4'
Date Collected: 11/17/22 14:20
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-4
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			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/21/22 23:27	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 15:19	CH	EET MID

Client Sample ID: C45 4'
Date Collected: 11/17/22 14:30
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 16:31	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/21/22 23:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 15:25	CH	EET MID

Client Sample ID: C43 4'
Date Collected: 11/18/22 10:35
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 16:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 00:10	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 15:42	CH	EET MID

Client Sample ID: C42 4'
Date Collected: 11/18/22 10:45
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 17:12	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 00:32	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C42 4'
Date Collected: 11/18/22 10:45
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-7
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			4.98 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 15:47	CH	EET MID

Client Sample ID: C38 4'
Date Collected: 11/18/22 11:05
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 17:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 00:53	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 15:53	CH	EET MID

Client Sample ID: C39 4'
Date Collected: 11/18/22 11:15
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 17:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 01:15	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 15:58	CH	EET MID

Client Sample ID: C40 4'
Date Collected: 11/18/22 11:30
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 18:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 01:37	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 16:04	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C48 4'
Date Collected: 11/18/22 11:27
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 18:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 02:20	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 16:10	CH	EET MID

Client Sample ID: C36 4'
Date Collected: 11/18/22 11:44
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 18:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 02:41	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 16:27	CH	EET MID

Client Sample ID: C37 4'
Date Collected: 11/18/22 11:52
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 19:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 03:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 16:33	CH	EET MID

Client Sample ID: C33 4'
Date Collected: 11/18/22 12:20
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40068	11/21/22 09:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/21/22 19:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:30	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C33 4'

Date Collected: 11/18/22 12:20
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 03:23	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 16:50	CH	EET MID

Client Sample ID: C209 2.5

Date Collected: 11/15/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	40109	11/21/22 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40035	11/21/22 22:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 03:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 16:55	CH	EET MID

Client Sample ID: C215 2.5

Date Collected: 11/15/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40109	11/21/22 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40035	11/21/22 22:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 04:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 17:01	CH	EET MID

Client Sample ID: C252 2.5

Date Collected: 11/15/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40109	11/21/22 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40035	11/21/22 23:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 04:29	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Client Sample ID: C252 2.5

Date Collected: 11/15/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 17:07	CH	EET MID

Client Sample ID: C250 2.5

Date Collected: 11/15/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	40109	11/21/22 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40035	11/21/22 23:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 04:50	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 17:12	CH	EET MID

Client Sample ID: C236 4

Date Collected: 11/16/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40109	11/21/22 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40035	11/21/22 23:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 05:12	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40112	11/21/22 17:18	CH	EET MID

Client Sample ID: C241 4

Date Collected: 11/16/22 00:00
Date Received: 11/21/22 08:55

Lab Sample ID: 880-21793-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40109	11/21/22 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40035	11/22/22 00:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40230	11/22/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40208	11/22/22 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	40138	11/21/22 17:49	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40026	11/22/22 05:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40067	11/21/22 09:38	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40112	11/21/22 17:24	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-21793-1
Project/Site: Limestone 1H SDG: 21-0100-24

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	T104704400-22-24	06-30-23

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: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-21793-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-21793-1	C29 4'	Solid	11/17/22 12:35	11/21/22 08:55
880-21793-2	C34 4'	Solid	11/17/22 12:45	11/21/22 08:55
880-21793-3	C35 4'	Solid	11/17/22 12:55	11/21/22 08:55
880-21793-4	C44 4'	Solid	11/17/22 14:20	11/21/22 08:55
880-21793-5	C45 4'	Solid	11/17/22 14:30	11/21/22 08:55
880-21793-6	C43 4'	Solid	11/18/22 10:35	11/21/22 08:55
880-21793-7	C42 4'	Solid	11/18/22 10:45	11/21/22 08:55
880-21793-8	C38 4'	Solid	11/18/22 11:05	11/21/22 08:55
880-21793-9	C39 4'	Solid	11/18/22 11:15	11/21/22 08:55
880-21793-10	C40 4'	Solid	11/18/22 11:30	11/21/22 08:55
880-21793-11	C48 4'	Solid	11/18/22 11:27	11/21/22 08:55
880-21793-12	C36 4'	Solid	11/18/22 11:44	11/21/22 08:55
880-21793-13	C37 4'	Solid	11/18/22 11:52	11/21/22 08:55
880-21793-14	C33 4'	Solid	11/18/22 12:20	11/21/22 08:55
880-21793-15	C209 2.5	Solid	11/15/22 00:00	11/21/22 08:55
880-21793-16	C215 2.5	Solid	11/15/22 00:00	11/21/22 08:55
880-21793-17	C252 2.5	Solid	11/15/22 00:00	11/21/22 08:55
880-21793-18	C250 2.5	Solid	11/15/22 00:00	11/21/22 08:55
880-21793-19	C236 4	Solid	11/16/22 00:00	11/21/22 08:55
880-21793-20	C241 4	Solid	11/16/22 00:00	11/21/22 08:55

Released to Imaging: 5/12/2023 11:29:26 AM
Received by OCD: 4/10/2023 5:31:08 PM

21793 No. 2829

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE. 11/18/22 PAGE 1 OF 1

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME LIME STONE / 41

LAI PROJECT # 21-0100-24 COLLECTOR STAN BATES

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MNT/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C 29 4'		11/17/22	12:35	S	1				X		X			X	X	X																									X			202
C 34 4'		11/17/22	12:45	S	1				X		X			X	X	X																									X			
C 35 4'		11/17/22	12:55	S	1				X		X			X	X	X																									X			
C 44 4'		11/17/22	14:20	S	1				X		X			X	X	X																									X			
C 45 4'		11/17/22	14:30	S	1				X		X			X	X	X																									X			
C 43 4'		11/18/22	10:35	S	1				X		X			X	X	X																									X			
C 42 4'		11/18/22	10:45	S	1				X		X			X	X	X																									X			
C 38 4'		11/18/22	11:05	S	1				X		X			X	X	X																									X			
C 39 4'		11/18/22	11:15	S	1				X		X			X	X	X																									X			
C 40 4'		11/18/22	11:30	S	1				X		X			X	X	X																									X			
C 49 4'		11/18/22	11:37	S	1				X		X			X	X	X																									X			
C 36 4'		11/18/22	11:44	S	1				X		X			X	X	X																									X			
C 37 4'		11/18/22	11:52	S	1				X		X			X	X	X																									X			
C 33 4'		11/18/22	12:20	S	1				X		X			X	X	X																									X			
TOTAL 15																																													

880-21793 Chain of Custody

RELINQUISHED BY (Signature) Demetrio Ballone	DATE/TIME 11/21 855	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
LABORATORY		

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

LABORATORY USE ONLY:
RECEIVING TEMP -2.5/-2 THERM# ID8 -36
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Released to Imaging: 5/12/2023 11:29:26 AM
Received by OCD: 4/10/2023 5:31:08 PM

21793

No. 2830

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE 11/16/22 PAGE 1 OF 1

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME LITTLE STONE 1H

LAI PROJECT # 210100-24 COLLECTOR _____

Data Reported to

TRRP report? ☐ Yes ☐ No

TIME ZONE
Time zone/State

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

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

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8082 PCBS ☐ | 8151 HERBICIDES ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200 8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐	8082 PCBS ☐	8151 HERBICIDES ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200 8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C 209 2.5		11/15/22		S	1				X		X		X	X	X																X		
C 215 2.5		11/15/22		S	1				X		X		X	X	X																X		
C 252 2.5		11/15/22		S	1				X		X		X	X	X																X		
C 250 2.5		11/15/22		S	1				X		X		X	X	X																X		
C 236 4		11/16/22		S	1				X		X		X	X	X																X		
C 241 4		11/16/22		S	1				X		X		X	X	X																X		

Loc: 880
21793

TOTAL

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Brandi Ballone	11/21	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
LABORATORY		

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

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

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-21793-1
SDG Number: 21-0100-24

Login Number: 21793
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.	False	Cooler temperature outside required temperature criteria.
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 11/28/2022 5:46:17 PM

JOB DESCRIPTION

Limestone
SDG NUMBER 27-0100-24

JOB NUMBER

880-21913-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/12/2023 11:29:26 AM

my EOL

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
11/28/2022 5:46:17 PM

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

Client: Larson & Associates, Inc.
Project/Site: Limestone

Laboratory Job ID: 880-21913-1
SDG: 27-0100-24

Table of Contents

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-21913-1
Project/Site: Limestone SDG: 27-0100-24

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Job ID: 880-21913-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-21913-1

Receipt
The samples were received on 11/23/2022 8:30 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 5.6°C

Receipt Exceptions
The following samples were received and analyzed from a bulk soil jar: C-232 2.5' (880-21913-1), C-240 2.5' (880-21913-2), C-234 2.5' (880-21913-3), C-130 1-4 (880-21913-4), C- 47 1-4 (880-21913-5), C-167 1-4 (880-21913-6) and C-91 1-2 (880-21913-7).

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: The surrogate recovery for the blank associated with preparation batch 880-40275 and analytical batch 880-40262 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-40275/2-A) and (LCSD 880-40275/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: C-240 2.5' (880-21913-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-234 2.5' (880-21913-3), C-130 1-4 (880-21913-4), C- 47 1-4 (880-21913-5), C-167 1-4 (880-21913-6) and C-91 1-2 (880-21913-7). 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.

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: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Client Sample ID: C-232 2.5'

Date Collected: 11/21/22 11:20
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/23/22 10:46	11/23/22 18:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/23/22 10:46	11/23/22 18:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/23/22 10:46	11/23/22 18:35	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/23/22 10:46	11/23/22 18:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/23/22 10:46	11/23/22 18:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/23/22 10:46	11/23/22 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*11/23/22 10:46*	*11/23/22 18:35*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/23/22 10:46*	*11/23/22 18:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/28/22 15:35	1

Method: SW846 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			11/28/22 11:40	1

Method: SW846 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		11/23/22 09:52	11/23/22 15:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/23/22 09:52	11/23/22 15:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/23/22 09:52	11/23/22 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*11/23/22 09:52*	*11/23/22 15:17*	*1*
o-Terphenyl (Surr)	*126*		*70 - 130*	*11/23/22 09:52*	*11/23/22 15:17*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.5**		4.95		mg/Kg			11/23/22 15:00	1

Client Sample ID: C-240 2.5'

Date Collected: 11/21/22 11:40
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 18:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 18:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 18:56	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/23/22 10:46	11/23/22 18:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 18:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/23/22 10:46	11/23/22 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*11/23/22 10:46*	*11/23/22 18:56*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*11/23/22 10:46*	*11/23/22 18:56*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Client Sample ID: C-240 2.5'

Date Collected: 11/21/22 11:40
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/28/22 15:35	1

Method: SW846 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			11/28/22 11:40	1

Method: SW846 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		11/23/22 09:52	11/23/22 15:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/23/22 09:52	11/23/22 15:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/23/22 09:52	11/23/22 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*11/23/22 09:52*	*11/23/22 15:39*	*1*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*	*11/23/22 09:52*	*11/23/22 15:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.8**		4.97		mg/Kg			11/23/22 15:17	1

Client Sample ID: C-234 2.5'

Date Collected: 11/21/22 11:30
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/23/22 10:46	11/23/22 19:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/23/22 10:46	11/23/22 19:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/23/22 10:46	11/23/22 19:16	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/23/22 10:46	11/23/22 19:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/23/22 10:46	11/23/22 19:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/23/22 10:46	11/23/22 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*11/23/22 10:46*	*11/23/22 19:16*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/23/22 10:46*	*11/23/22 19:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/28/22 15:35	1

Method: SW846 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			11/28/22 11:40	1

Method: SW846 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		11/23/22 09:52	11/23/22 16:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/23/22 09:52	11/23/22 16:47	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Client Sample ID: C-234 2.5'

Lab Sample ID: 880-21913-3
Matrix: Solid
Date Collected: 11/21/22 11:30
Date Received: 11/23/22 08:30

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/23/22 09:52	11/23/22 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*11/23/22 09:52*	*11/23/22 16:47*	*1*
o-Terphenyl (Surr)	*141*	*S1+*	*70 - 130*	*11/23/22 09:52*	*11/23/22 16:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**389**		4.96		mg/Kg			11/23/22 15:23	1

Client Sample ID: C-130 1-4

Lab Sample ID: 880-21913-4
Matrix: Solid
Date Collected: 11/21/22 10:55
Date Received: 11/23/22 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 19:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 19:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 19:36	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/23/22 10:46	11/23/22 19:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 19:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/23/22 10:46	11/23/22 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/23/22 10:46*	*11/23/22 19:36*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/23/22 10:46*	*11/23/22 19:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/28/22 15:35	1

Method: SW846 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			11/28/22 11:40	1

Method: SW846 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		11/23/22 09:52	11/23/22 17:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/23/22 09:52	11/23/22 17:09	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/23/22 09:52	11/23/22 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*124*		*70 - 130*	*11/23/22 09:52*	*11/23/22 17:09*	*1*
o-Terphenyl (Surr)	*139*	*S1+*	*70 - 130*	*11/23/22 09:52*	*11/23/22 17:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**418**		5.02		mg/Kg			11/23/22 15:28	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Client Sample ID: C- 47 1-4

Date Collected: 11/21/22 12:30
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-5

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/23/22 10:46	11/23/22 19:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/23/22 10:46	11/23/22 19:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/23/22 10:46	11/23/22 19:57	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/23/22 10:46	11/23/22 19:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/23/22 10:46	11/23/22 19:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/23/22 10:46	11/23/22 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/23/22 10:46*	*11/23/22 19:57*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/23/22 10:46*	*11/23/22 19:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/28/22 15:35	1

Method: SW846 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			11/28/22 11:40	1

Method: SW846 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		11/23/22 09:52	11/23/22 17:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/23/22 09:52	11/23/22 17:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/23/22 09:52	11/23/22 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*11/23/22 09:52*	*11/23/22 17:32*	*1*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*	*11/23/22 09:52*	*11/23/22 17:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**141**		5.05		mg/Kg			11/23/22 15:34	1

Client Sample ID: C-167 1-4

Date Collected: 11/21/22 12:45
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-6

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 20:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 20:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 20:17	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/23/22 10:46	11/23/22 20:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 20:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/23/22 10:46	11/23/22 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*11/23/22 10:46*	*11/23/22 20:17*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/23/22 10:46*	*11/23/22 20:17*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Client Sample ID: C-167 1-4

Lab Sample ID: 880-21913-6
Matrix: Solid
Date Collected: 11/21/22 12:45
Date Received: 11/23/22 08:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/28/22 15:35	1

Method: SW846 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			11/28/22 11:40	1

Method: SW846 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		11/23/22 09:52	11/23/22 17:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/23/22 09:52	11/23/22 17:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/23/22 09:52	11/23/22 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*126*		*70 - 130*	*11/23/22 09:52*	*11/23/22 17:54*	*1*
o-Terphenyl (Surr)	*147*	*S1+*	*70 - 130*	*11/23/22 09:52*	*11/23/22 17:54*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.6**		4.99		mg/Kg			11/23/22 15:51	1

Client Sample ID: C-91 1-2

Lab Sample ID: 880-21913-7
Matrix: Solid
Date Collected: 11/21/22 12:55
Date Received: 11/23/22 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 20:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 20:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 20:38	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/23/22 10:46	11/23/22 20:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 20:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/23/22 10:46	11/23/22 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/23/22 10:46*	*11/23/22 20:38*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*11/23/22 10:46*	*11/23/22 20:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/28/22 15:35	1

Method: SW846 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			11/28/22 11:40	1

Method: SW846 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		11/23/22 09:52	11/23/22 18:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/23/22 09:52	11/23/22 18:15	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Client Sample ID: C-91 1-2

Date Collected: 11/21/22 12:55
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-7

Matrix: Solid

Method: SW846 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		11/23/22 09:52	11/23/22 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*11/23/22 09:52*	*11/23/22 18:15*	*1*
o-Terphenyl (Surr)	*133*	*S1+*	*70 - 130*	*11/23/22 09:52*	*11/23/22 18:15*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**207**		5.00		mg/Kg			11/23/22 15:56	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-21913-1	C-232 2.5'	81	101
880-21913-2	C-240 2.5'	87	113
880-21913-3	C-234 2.5'	81	108
880-21913-4	C-130 1-4	92	103
880-21913-5	C- 47 1-4	93	110
880-21913-6	C-167 1-4	90	110
880-21913-7	C-91 1-2	98	115
LCS 880-40279/1-A	Lab Control Sample	86	112
LCSD 880-40279/2-A	Lab Control Sample Dup	85	101
MB 880-40279/5-A	Method Blank	77	102

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-21913-1	C-232 2.5'	102	126
880-21913-2	C-240 2.5'	121	142 S1+
880-21913-3	C-234 2.5'	122	141 S1+
880-21913-4	C-130 1-4	124	139 S1+
880-21913-5	C- 47 1-4	116	132 S1+
880-21913-6	C-167 1-4	126	147 S1+
880-21913-7	C-91 1-2	107	133 S1+
LCS 880-40275/2-A	Lab Control Sample	206 S1+	246 S1+
LCSD 880-40275/3-A	Lab Control Sample Dup	208 S1+	244 S1+
MB 880-40275/1-A	Method Blank	129	160 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40279/5-A
Matrix: Solid
Analysis Batch: 40266

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40279

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 13:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 13:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 13:13	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/23/22 10:46	11/23/22 13:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/23/22 10:46	11/23/22 13:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/23/22 10:46	11/23/22 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*11/23/22 10:46*	*11/23/22 13:13*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/23/22 10:46*	*11/23/22 13:13*	*1*

Lab Sample ID: LCS 880-40279/1-A
Matrix: Solid
Analysis Batch: 40266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40279

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07796		mg/Kg		78	70 - 130		
Toluene			0.100	0.09316		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.1035		mg/Kg		103	70 - 130		
m,p-Xylenes			0.200	0.2014		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.07886		mg/Kg		79	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-40279/2-A
Matrix: Solid
Analysis Batch: 40266

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40279

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08511		mg/Kg		85	70 - 130	9	35
Toluene			0.100	0.1020		mg/Kg		102	70 - 130	9	35
Ethylbenzene			0.100	0.09992		mg/Kg		100	70 - 130	4	35
m,p-Xylenes			0.200	0.1800		mg/Kg		90	70 - 130	11	35
o-Xylene			0.100	0.08784		mg/Kg		88	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

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

Lab Sample ID: MB 880-40275/1-A
Matrix: Solid
Analysis Batch: 40262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40275

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		11/23/22 08:32	11/23/22 08:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/23/22 08:32	11/23/22 08:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/23/22 08:32	11/23/22 08:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*129*		*70 - 130*	*11/23/22 08:32*	*11/23/22 08:39*	*1*
o-Terphenyl (Surr)	*160*	*S1+*	*70 - 130*	*11/23/22 08:32*	*11/23/22 08:39*	*1*

Lab Sample ID: LCS 880-40275/2-A
Matrix: Solid
Analysis Batch: 40262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40275

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1024		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1217		mg/Kg		122	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*206*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*246*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-40275/3-A
Matrix: Solid
Analysis Batch: 40262

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40275

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	998.9		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1210		mg/Kg		121	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*208*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*244*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40274/1-A
Matrix: Solid
Analysis Batch: 40293

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			11/23/22 14:43	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-40274/2-A
Matrix: Solid
Analysis Batch: 40293

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 880-40274/3-A
Matrix: Solid
Analysis Batch: 40293

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	255.4		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-21913-1 MS
Matrix: Solid
Analysis Batch: 40293

Client Sample ID: C-232 2.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	50.5		248	303.6		mg/Kg		102	90 - 110		

Lab Sample ID: 880-21913-1 MSD
Matrix: Solid
Analysis Batch: 40293

Client Sample ID: C-232 2.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	50.5		248	301.0		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

GC VOA

Analysis Batch: 40266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21913-1	C-232 2.5'	Total/NA	Solid	8021B	40279
880-21913-2	C-240 2.5'	Total/NA	Solid	8021B	40279
880-21913-3	C-234 2.5'	Total/NA	Solid	8021B	40279
880-21913-4	C-130 1-4	Total/NA	Solid	8021B	40279
880-21913-5	C- 47 1-4	Total/NA	Solid	8021B	40279
880-21913-6	C-167 1-4	Total/NA	Solid	8021B	40279
880-21913-7	C-91 1-2	Total/NA	Solid	8021B	40279
MB 880-40279/5-A	Method Blank	Total/NA	Solid	8021B	40279
LCS 880-40279/1-A	Lab Control Sample	Total/NA	Solid	8021B	40279
LCSD 880-40279/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40279

Prep Batch: 40279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21913-1	C-232 2.5'	Total/NA	Solid	5035	
880-21913-2	C-240 2.5'	Total/NA	Solid	5035	
880-21913-3	C-234 2.5'	Total/NA	Solid	5035	
880-21913-4	C-130 1-4	Total/NA	Solid	5035	
880-21913-5	C- 47 1-4	Total/NA	Solid	5035	
880-21913-6	C-167 1-4	Total/NA	Solid	5035	
880-21913-7	C-91 1-2	Total/NA	Solid	5035	
MB 880-40279/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40279/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40279/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 40482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21913-1	C-232 2.5'	Total/NA	Solid	Total BTEX	
880-21913-2	C-240 2.5'	Total/NA	Solid	Total BTEX	
880-21913-3	C-234 2.5'	Total/NA	Solid	Total BTEX	
880-21913-4	C-130 1-4	Total/NA	Solid	Total BTEX	
880-21913-5	C- 47 1-4	Total/NA	Solid	Total BTEX	
880-21913-6	C-167 1-4	Total/NA	Solid	Total BTEX	
880-21913-7	C-91 1-2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 40262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21913-1	C-232 2.5'	Total/NA	Solid	8015B NM	40275
880-21913-2	C-240 2.5'	Total/NA	Solid	8015B NM	40275
880-21913-3	C-234 2.5'	Total/NA	Solid	8015B NM	40275
880-21913-4	C-130 1-4	Total/NA	Solid	8015B NM	40275
880-21913-5	C- 47 1-4	Total/NA	Solid	8015B NM	40275
880-21913-6	C-167 1-4	Total/NA	Solid	8015B NM	40275
880-21913-7	C-91 1-2	Total/NA	Solid	8015B NM	40275
MB 880-40275/1-A	Method Blank	Total/NA	Solid	8015B NM	40275
LCS 880-40275/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40275
LCSD 880-40275/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40275

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

GC Semi VOA

Prep Batch: 40275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21913-1	C-232 2.5'	Total/NA	Solid	8015NM Prep	
880-21913-2	C-240 2.5'	Total/NA	Solid	8015NM Prep	
880-21913-3	C-234 2.5'	Total/NA	Solid	8015NM Prep	
880-21913-4	C-130 1-4	Total/NA	Solid	8015NM Prep	
880-21913-5	C- 47 1-4	Total/NA	Solid	8015NM Prep	
880-21913-6	C-167 1-4	Total/NA	Solid	8015NM Prep	
880-21913-7	C-91 1-2	Total/NA	Solid	8015NM Prep	
MB 880-40275/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40275/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40275/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21913-1	C-232 2.5'	Total/NA	Solid	8015 NM	
880-21913-2	C-240 2.5'	Total/NA	Solid	8015 NM	
880-21913-3	C-234 2.5'	Total/NA	Solid	8015 NM	
880-21913-4	C-130 1-4	Total/NA	Solid	8015 NM	
880-21913-5	C- 47 1-4	Total/NA	Solid	8015 NM	
880-21913-6	C-167 1-4	Total/NA	Solid	8015 NM	
880-21913-7	C-91 1-2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21913-1	C-232 2.5'	Soluble	Solid	DI Leach	
880-21913-2	C-240 2.5'	Soluble	Solid	DI Leach	
880-21913-3	C-234 2.5'	Soluble	Solid	DI Leach	
880-21913-4	C-130 1-4	Soluble	Solid	DI Leach	
880-21913-5	C- 47 1-4	Soluble	Solid	DI Leach	
880-21913-6	C-167 1-4	Soluble	Solid	DI Leach	
880-21913-7	C-91 1-2	Soluble	Solid	DI Leach	
MB 880-40274/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40274/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40274/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21913-1 MS	C-232 2.5'	Soluble	Solid	DI Leach	
880-21913-1 MSD	C-232 2.5'	Soluble	Solid	DI Leach	

Analysis Batch: 40293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21913-1	C-232 2.5'	Soluble	Solid	300.0	40274
880-21913-2	C-240 2.5'	Soluble	Solid	300.0	40274
880-21913-3	C-234 2.5'	Soluble	Solid	300.0	40274
880-21913-4	C-130 1-4	Soluble	Solid	300.0	40274
880-21913-5	C- 47 1-4	Soluble	Solid	300.0	40274
880-21913-6	C-167 1-4	Soluble	Solid	300.0	40274
880-21913-7	C-91 1-2	Soluble	Solid	300.0	40274
MB 880-40274/1-A	Method Blank	Soluble	Solid	300.0	40274
LCS 880-40274/2-A	Lab Control Sample	Soluble	Solid	300.0	40274
LCSD 880-40274/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40274
880-21913-1 MS	C-232 2.5'	Soluble	Solid	300.0	40274

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

HPLC/IC (Continued)

Analysis Batch: 40293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21913-1 MSD	C-232 2.5'	Soluble	Solid	300.0	40274

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Client Sample ID: C-232 2.5'

Date Collected: 11/21/22 11:20
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	40279	11/23/22 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40266	11/23/22 18:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40482	11/28/22 15:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40443	11/28/22 11:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40275	11/23/22 09:52	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40262	11/23/22 15:17	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40274	11/23/22 09:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40293	11/23/22 15:00	SMC	EET MID

Client Sample ID: C-240 2.5'

Date Collected: 11/21/22 11:40
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40279	11/23/22 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40266	11/23/22 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40482	11/28/22 15:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40443	11/28/22 11:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	40275	11/23/22 09:52	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40262	11/23/22 15:39	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40274	11/23/22 09:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40293	11/23/22 15:17	SMC	EET MID

Client Sample ID: C-234 2.5'

Date Collected: 11/21/22 11:30
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40279	11/23/22 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40266	11/23/22 19:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40482	11/28/22 15:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40443	11/28/22 11:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40275	11/23/22 09:52	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40262	11/23/22 16:47	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40274	11/23/22 09:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40293	11/23/22 15:23	SMC	EET MID

Client Sample ID: C-130 1-4

Date Collected: 11/21/22 10:55
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40279	11/23/22 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40266	11/23/22 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40482	11/28/22 15:35	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Client Sample ID: C-130 1-4
Date Collected: 11/21/22 10:55
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-4
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			40443	11/28/22 11:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	40275	11/23/22 09:52	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40262	11/23/22 17:09	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	40274	11/23/22 09:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40293	11/23/22 15:28	SMC	EET MID

Client Sample ID: C- 47 1-4
Date Collected: 11/21/22 12:30
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40279	11/23/22 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40266	11/23/22 19:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40482	11/28/22 15:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40443	11/28/22 11:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40275	11/23/22 09:52	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40262	11/23/22 17:32	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40274	11/23/22 09:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40293	11/23/22 15:34	SMC	EET MID

Client Sample ID: C-167 1-4
Date Collected: 11/21/22 12:45
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40279	11/23/22 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40266	11/23/22 20:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40482	11/28/22 15:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40443	11/28/22 11:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	40275	11/23/22 09:52	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40262	11/23/22 17:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40274	11/23/22 09:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40293	11/23/22 15:51	SMC	EET MID

Client Sample ID: C-91 1-2
Date Collected: 11/21/22 12:55
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40279	11/23/22 10:46	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40266	11/23/22 20:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40482	11/28/22 15:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40443	11/28/22 11:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	40275	11/23/22 09:52	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40262	11/23/22 18:15	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Client Sample ID: C-91 1-2

Date Collected: 11/21/22 12:55
Date Received: 11/23/22 08:30

Lab Sample ID: 880-21913-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	40274	11/23/22 09:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40293	11/23/22 15:56	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-21913-1
Project/Site: Limestone SDG: 27-0100-24

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	T104704400-22-24	06-30-23

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: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone

Job ID: 880-21913-1
SDG: 27-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-21913-1	C-232 2.5'	Solid	11/21/22 11:20	11/23/22 08:30
880-21913-2	C-240 2.5'	Solid	11/21/22 11:40	11/23/22 08:30
880-21913-3	C-234 2.5'	Solid	11/21/22 11:30	11/23/22 08:30
880-21913-4	C-130 1-4	Solid	11/21/22 10:55	11/23/22 08:30
880-21913-5	C- 47 1-4	Solid	11/21/22 12:30	11/23/22 08:30
880-21913-6	C-167 1-4	Solid	11/21/22 12:45	11/23/22 08:30
880-21913-7	C-91 1-2	Solid	11/21/22 12:55	11/23/22 08:30

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21913

No. 2831

CHAIN-OF-CUSTODY

11/28/2022

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE 11/22/22 PAGE 1 OF 1

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME: LIMESTONE

LAI PROJECT # 21-0100-24 COLLECTOR SB

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-232 2.5'		11/21/22	11:20	S	1				X		BTEX ☒ MTBE ☐ TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL - MOD 8015 ☒ OIL - MOD 8015 ☒ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBS ☐ TCLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	207
C-240 2.5'		11/21/22	11:40	S	1							
C-234 2.5'		11/21/22	11:30	S	1							
~~SC~~-130 1-4		11/21/22	10:55	S	1							
C-97 1-4		11/21/22	12:30	S	1							
C-62 1-4		11/21/22	12:45	S	1							
C-91 1-2		11/21/22	11:55	S	1							

TOTAL 7

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Jennifer Bolton	11/23 0830	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
LABORATORY		

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

LABORATORY USE ONLY:
RECEIVING TEMP 5.9/5.6 THERM# IR8 :30
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-21913-1
SDG Number: 27-0100-24

Login Number: 21913
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 12/28/2022 9:54:09 AM

JOB DESCRIPTION

Limestone 1-H
SDG NUMBER 21-0100-24

JOB NUMBER

880-22851-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/12/2023 11:29:26 AM

my EOL

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
12/28/2022 9:54:09 AM

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Laboratory Job ID: 880-22851-1
SDG: 21-0100-24

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-22851-1
Project/Site: Limestone 1-H SDG: 21-0100-24

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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.
¤	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: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Job ID: 880-22851-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-22851-1

Receipt
The samples were received on 12/19/2022 9:44 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 3.2°C

Receipt Exceptions
The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar.

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-42683 and analytical batch 880-42656 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is 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
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 880-42174 and analytical batch 880-42290 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: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Client Sample ID: C-133 0-4'

Lab Sample ID: 880-22851-1
Matrix: Solid
Date Collected: 12/14/22 11:00
Date Received: 12/19/22 09:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:02	12/25/22 11:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:02	12/25/22 11:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:02	12/25/22 11:59	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/22/22 12:02	12/25/22 11:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:02	12/25/22 11:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 12:02	12/25/22 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/22/22 12:02*	*12/25/22 11:59*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/22/22 12:02*	*12/25/22 11:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/26/22 15:59	1

Method: SW846 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			12/20/22 09:48	1

Method: SW846 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		12/19/22 10:00	12/19/22 15:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/19/22 10:00	12/19/22 15:49	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/19/22 10:00	12/19/22 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*12/19/22 10:00*	*12/19/22 15:49*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*12/19/22 10:00*	*12/19/22 15:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**438**		4.95		mg/Kg			12/20/22 09:13	1

Client Sample ID: C-131 0-4'

Lab Sample ID: 880-22851-2
Matrix: Solid
Date Collected: 12/14/22 12:20
Date Received: 12/19/22 09:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/22/22 12:02	12/25/22 12:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/22/22 12:02	12/25/22 12:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/22/22 12:02	12/25/22 12:19	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		12/22/22 12:02	12/25/22 12:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/22/22 12:02	12/25/22 12:19	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/22/22 12:02	12/25/22 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/22/22 12:02*	*12/25/22 12:19*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*12/22/22 12:02*	*12/25/22 12:19*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-22851-1
Project/Site: Limestone 1-H SDG: 21-0100-24

Client Sample ID: C-131 0-4' Lab Sample ID: 880-22851-2

Date Collected: 12/14/22 12:20 **Matrix: Solid**
Date Received: 12/19/22 09:44

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/26/22 15:59	1

Method: SW846 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			12/20/22 09:48	1

Method: SW846 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		12/19/22 10:00	12/19/22 16:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/19/22 10:00	12/19/22 16:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/22 10:00	12/19/22 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*12/19/22 10:00*	*12/19/22 16:10*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*12/19/22 10:00*	*12/19/22 16:10*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**218**		5.03		mg/Kg			12/20/22 09:26	1

Client Sample ID: C-183 4' Lab Sample ID: 880-22851-3

Date Collected: 12/15/22 13:30 **Matrix: Solid**
Date Received: 12/19/22 09:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 14:20	12/27/22 19:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 14:20	12/27/22 19:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 14:20	12/27/22 19:58	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/22/22 14:20	12/27/22 19:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 14:20	12/27/22 19:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 14:20	12/27/22 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*12/22/22 14:20*	*12/27/22 19:58*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/22/22 14:20*	*12/27/22 19:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/28/22 09:31	1

Method: SW846 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			12/20/22 09:48	1

Method: SW846 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		12/19/22 10:00	12/19/22 16:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/19/22 10:00	12/19/22 16:31	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-22851-1
Project/Site: Limestone 1-H SDG: 21-0100-24

Client Sample ID: C-183 4'
Lab Sample ID: 880-22851-3
Date Collected: 12/15/22 13:30 **Matrix: Solid**
Date Received: 12/19/22 09:44

Method: SW846 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		12/19/22 10:00	12/19/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*12/19/22 10:00*	*12/19/22 16:31*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*12/19/22 10:00*	*12/19/22 16:31*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**316**		5.01		mg/Kg			12/20/22 09:31	1

Client Sample ID: C-184 4'
Lab Sample ID: 880-22851-4
Date Collected: 12/15/22 13:40 **Matrix: Solid**
Date Received: 12/19/22 09:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 14:20	12/27/22 20:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 14:20	12/27/22 20:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 14:20	12/27/22 20:18	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/22/22 14:20	12/27/22 20:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 14:20	12/27/22 20:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/22/22 14:20	12/27/22 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/22/22 14:20*	*12/27/22 20:18*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*12/22/22 14:20*	*12/27/22 20:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/28/22 09:31	1

Method: SW846 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			12/20/22 09:48	1

Method: SW846 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		12/19/22 10:00	12/19/22 16:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/19/22 10:00	12/19/22 16:52	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/19/22 10:00	12/19/22 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*12/19/22 10:00*	*12/19/22 16:52*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*12/19/22 10:00*	*12/19/22 16:52*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**443**		5.00		mg/Kg			12/20/22 09:35	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Client Sample ID: C-185 4'

Date Collected: 12/15/22 14:00
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/22/22 14:20	12/27/22 20:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/22/22 14:20	12/27/22 20:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/22/22 14:20	12/27/22 20:38	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/22/22 14:20	12/27/22 20:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/22/22 14:20	12/27/22 20:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/22/22 14:20	12/27/22 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/22/22 14:20*	*12/27/22 20:38*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*12/22/22 14:20*	*12/27/22 20:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/28/22 09:31	1

Method: SW846 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			12/20/22 09:48	1

Method: SW846 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		12/19/22 10:00	12/19/22 17:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/19/22 10:00	12/19/22 17:13	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/19/22 10:00	12/19/22 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*12/19/22 10:00*	*12/19/22 17:13*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*12/19/22 10:00*	*12/19/22 17:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**618**		4.96		mg/Kg			12/20/22 09:40	1

Client Sample ID: C-186 4'

Date Collected: 12/15/22 14:10
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 14:20	12/27/22 20:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 14:20	12/27/22 20:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 14:20	12/27/22 20:59	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/22/22 14:20	12/27/22 20:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 14:20	12/27/22 20:59	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/22/22 14:20	12/27/22 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/22/22 14:20*	*12/27/22 20:59*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/22/22 14:20*	*12/27/22 20:59*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Client Sample ID: C-186 4'

Date Collected: 12/15/22 14:10
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/28/22 09:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**85.8**		49.9		mg/Kg			12/20/22 09:48	1

Method: SW846 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		12/19/22 10:00	12/19/22 17:33	1
Diesel Range Organics (Over C10-C28)	**85.8**		49.9		mg/Kg		12/19/22 10:00	12/19/22 17:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/19/22 10:00	12/19/22 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*12/19/22 10:00*	*12/19/22 17:33*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*12/19/22 10:00*	*12/19/22 17:33*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**836**		4.96		mg/Kg			12/20/22 09:44	1

Client Sample ID: C-48 0-4'

Date Collected: 12/15/22 15:00
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 14:20	12/27/22 21:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 14:20	12/27/22 21:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 14:20	12/27/22 21:19	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/22/22 14:20	12/27/22 21:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 14:20	12/27/22 21:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 14:20	12/27/22 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/22/22 14:20*	*12/27/22 21:19*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/22/22 14:20*	*12/27/22 21:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/28/22 09:31	1

Method: SW846 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			12/20/22 09:48	1

Method: SW846 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		12/19/22 10:00	12/19/22 17:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/19/22 10:00	12/19/22 17:54	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-22851-1
Project/Site: Limestone 1-H SDG: 21-0100-24

Client Sample ID: C-48 0-4' Lab Sample ID: 880-22851-7

Date Collected: 12/15/22 15:00 **Matrix: Solid**
Date Received: 12/19/22 09:44

Method: SW846 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		12/19/22 10:00	12/19/22 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*12/19/22 10:00*	*12/19/22 17:54*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*12/19/22 10:00*	*12/19/22 17:54*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**123**	**F1**	4.95		mg/Kg			12/20/22 09:49	1

Client Sample ID: C-30 0-4' Lab Sample ID: 880-22851-8

Date Collected: 12/16/22 08:10 **Matrix: Solid**
Date Received: 12/19/22 09:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F2 F1	0.00198		mg/Kg		12/27/22 11:01	12/28/22 01:17	1
Toluene	<0.00198	U F1	0.00198		mg/Kg		12/27/22 11:01	12/28/22 01:17	1
Ethylbenzene	<0.00198	U F1	0.00198		mg/Kg		12/27/22 11:01	12/28/22 01:17	1
m,p-Xylenes	<0.00396	U F1	0.00396		mg/Kg		12/27/22 11:01	12/28/22 01:17	1
o-Xylene	<0.00198	U F1	0.00198		mg/Kg		12/27/22 11:01	12/28/22 01:17	1
Xylenes, Total	<0.00396	U F1	0.00396		mg/Kg		12/27/22 11:01	12/28/22 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/27/22 11:01*	*12/28/22 01:17*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/27/22 11:01*	*12/28/22 01:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/28/22 09:31	1

Method: SW846 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			12/20/22 09:50	1

Method: SW846 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		12/19/22 10:00	12/19/22 15:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/19/22 10:00	12/19/22 15:07	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/22 10:00	12/19/22 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*12/19/22 10:00*	*12/19/22 15:07*	*1*
o-Terphenyl (Surr)	*81*		*70 - 130*	*12/19/22 10:00*	*12/19/22 15:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.0**		5.05		mg/Kg			12/20/22 10:02	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Client Sample ID: C-129 0-4'

Lab Sample ID: 880-22851-9
Matrix: Solid
Date Collected: 12/16/22 09:40
Date Received: 12/19/22 09:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/27/22 11:01	12/28/22 01:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/22 11:01	12/28/22 01:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/22 11:01	12/28/22 01:38	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/27/22 11:01	12/28/22 01:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/22 11:01	12/28/22 01:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/22 11:01	12/28/22 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*12/27/22 11:01*	*12/28/22 01:38*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/27/22 11:01*	*12/28/22 01:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/28/22 09:31	1

Method: SW846 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			12/20/22 09:50	1

Method: SW846 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		12/19/22 10:00	12/19/22 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/19/22 10:00	12/19/22 15:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/22 10:00	12/19/22 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*12/19/22 10:00*	*12/19/22 15:49*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*12/19/22 10:00*	*12/19/22 15:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**455**		5.03		mg/Kg			12/20/22 10:07	1

Client Sample ID: C-81 4'

Lab Sample ID: 880-22851-10
Matrix: Solid
Date Collected: 12/16/22 12:30
Date Received: 12/19/22 09:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 01:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 01:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 01:58	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/27/22 11:01	12/28/22 01:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 01:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/22 11:01	12/28/22 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/27/22 11:01*	*12/28/22 01:58*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/27/22 11:01*	*12/28/22 01:58*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Client Sample ID: C-81 4'

Date Collected: 12/16/22 12:30
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/28/22 09:31	1

Method: SW846 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			12/20/22 09:50	1

Method: SW846 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		12/19/22 10:00	12/19/22 16:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/19/22 10:00	12/19/22 16:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/22 10:00	12/19/22 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*12/19/22 10:00*	*12/19/22 16:10*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*12/19/22 10:00*	*12/19/22 16:10*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.5**		5.01		mg/Kg			12/20/22 10:20	1

Client Sample ID: BF-21

Date Collected: 12/16/22 10:00
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 02:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 02:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 02:19	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/27/22 11:01	12/28/22 02:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 02:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/22 11:01	12/28/22 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/27/22 11:01*	*12/28/22 02:19*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/27/22 11:01*	*12/28/22 02:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/28/22 09:31	1

Method: SW846 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			12/20/22 09:50	1

Method: SW846 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		12/19/22 10:00	12/19/22 16:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/19/22 10:00	12/19/22 16:31	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-22851-1
Project/Site: Limestone 1-H SDG: 21-0100-24

Client Sample ID: BF-21 Lab Sample ID: 880-22851-11

Date Collected: 12/16/22 10:00 **Matrix: Solid**
Date Received: 12/19/22 09:44

Method: SW846 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		12/19/22 10:00	12/19/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*12/19/22 10:00*	*12/19/22 16:31*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*12/19/22 10:00*	*12/19/22 16:31*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.29**		5.01		mg/Kg			12/20/22 10:24	1

Client Sample ID: BF-22 Lab Sample ID: 880-22851-12

Date Collected: 12/16/22 10:10 **Matrix: Solid**
Date Received: 12/19/22 09:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/27/22 11:01	12/28/22 02:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/27/22 11:01	12/28/22 02:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/27/22 11:01	12/28/22 02:39	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/27/22 11:01	12/28/22 02:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/27/22 11:01	12/28/22 02:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/27/22 11:01	12/28/22 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*12/27/22 11:01*	*12/28/22 02:39*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*12/27/22 11:01*	*12/28/22 02:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/28/22 09:31	1

Method: SW846 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			12/20/22 09:50	1

Method: SW846 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		12/19/22 10:00	12/19/22 16:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/19/22 10:00	12/19/22 16:52	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/19/22 10:00	12/19/22 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*12/19/22 10:00*	*12/19/22 16:52*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*12/19/22 10:00*	*12/19/22 16:52*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.38**		5.02		mg/Kg			12/20/22 10:29	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-22851-1
Project/Site: Limestone 1-H SDG: 21-0100-24

Client Sample ID: BF-23 Lab Sample ID: 880-22851-13

Date Collected: 12/16/22 10:20 **Matrix: Solid**
Date Received: 12/19/22 09:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 02:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 02:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 02:59	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/27/22 11:01	12/28/22 02:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 02:59	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/27/22 11:01	12/28/22 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*12/27/22 11:01*	*12/28/22 02:59*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*12/27/22 11:01*	*12/28/22 02:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/28/22 09:31	1

Method: SW846 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			12/20/22 09:50	1

Method: SW846 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		12/19/22 10:00	12/19/22 17:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/19/22 10:00	12/19/22 17:13	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/19/22 10:00	12/19/22 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*12/19/22 10:00*	*12/19/22 17:13*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*12/19/22 10:00*	*12/19/22 17:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.2**		5.00		mg/Kg			12/20/22 10:33	1

Client Sample ID: BF-24 Lab Sample ID: 880-22851-14

Date Collected: 12/16/22 10:30 **Matrix: Solid**
Date Received: 12/19/22 09:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/27/22 11:01	12/28/22 03:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/22 11:01	12/28/22 03:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/22 11:01	12/28/22 03:20	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/27/22 11:01	12/28/22 03:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/22 11:01	12/28/22 03:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/22 11:01	12/28/22 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/27/22 11:01*	*12/28/22 03:20*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*12/27/22 11:01*	*12/28/22 03:20*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Client Sample ID: BF-24

Date Collected: 12/16/22 10:30
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-14
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/28/22 09:31	1

Method: SW846 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			12/20/22 09:50	1

Method: SW846 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		12/19/22 10:00	12/19/22 17:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/19/22 10:00	12/19/22 17:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/19/22 10:00	12/19/22 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*12/19/22 10:00*	*12/19/22 17:33*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*12/19/22 10:00*	*12/19/22 17:33*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.84**		5.00		mg/Kg			12/20/22 10:38	1

Client Sample ID: BF-25

Date Collected: 12/16/22 10:40
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-15
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/27/22 11:01	12/28/22 03:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/27/22 11:01	12/28/22 03:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/27/22 11:01	12/28/22 03:40	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		12/27/22 11:01	12/28/22 03:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/27/22 11:01	12/28/22 03:40	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/27/22 11:01	12/28/22 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/27/22 11:01*	*12/28/22 03:40*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/27/22 11:01*	*12/28/22 03:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/28/22 09:31	1

Method: SW846 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			12/20/22 09:50	1

Method: SW846 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		12/19/22 10:00	12/19/22 17:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/19/22 10:00	12/19/22 17:54	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Client Sample ID: BF-25

Date Collected: 12/16/22 10:40
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-15

Matrix: Solid

Method: SW846 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		12/19/22 10:00	12/19/22 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*12/19/22 10:00*	*12/19/22 17:54*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*12/19/22 10:00*	*12/19/22 17:54*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.34**		5.00		mg/Kg			12/20/22 10:42	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

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)										
880-22851-1	C-133 0-4'	108	106										
880-22851-2	C-131 0-4'	112	109										
880-22851-3	C-183 4'	106	110										
880-22851-4	C-184 4'	107	111										
880-22851-5	C-185 4'	105	109										
880-22851-6	C-186 4'	103	104										
880-22851-7	C-48 0-4'	103	106										
880-22851-8	C-30 0-4'	103	104										
880-22851-8 MS	C-30 0-4'	106	105										
880-22851-8 MSD	C-30 0-4'	101	108										
880-22851-9	C-129 0-4'	106	105										
880-22851-10	C-81 4'	105	107										
880-22851-11	BF-21	107	104										
880-22851-12	BF-22	104	111										
880-22851-13	BF-23	104	109										
880-22851-14	BF-24	105	109										
880-22851-15	BF-25	108	108										
LCS 880-42513/1-A	Lab Control Sample	100	107										
LCS 880-42530/1-A	Lab Control Sample	93	106										
LCS 880-42683/1-A	Lab Control Sample	99	107										
LCSD 880-42513/2-A	Lab Control Sample Dup	100	106										
LCSD 880-42530/2-A	Lab Control Sample Dup	98	108										
LCSD 880-42683/2-A	Lab Control Sample Dup	99	109										
MB 880-42504/5-A	Method Blank	95	103										
MB 880-42513/5-A	Method Blank	94	104										
MB 880-42530/5-A	Method Blank	94	105										
MB 880-42683/5-A	Method Blank	95	107										

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)										
880-22851-1	C-133 0-4'	101	106										
880-22851-2	C-131 0-4'	102	105										
880-22851-3	C-183 4'	98	102										
880-22851-4	C-184 4'	98	102										
880-22851-5	C-185 4'	93	96										
880-22851-6	C-186 4'	95	98										
880-22851-7	C-48 0-4'	87	88										
880-22851-8	C-30 0-4'	81	81										
880-22851-9	C-129 0-4'	95	94										
880-22851-10	C-81 4'	87	91										
880-22851-11	BF-21	88	92										
880-22851-12	BF-22	87	90										

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-22851-1
Project/Site: Limestone 1-H SDG: 21-0100-24

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-22851-13	BF-23	87	89										
880-22851-14	BF-24	83	84										
880-22851-15	BF-25	82	84										
LCS 880-42126/2-A	Lab Control Sample	123	121										
LCS 880-42127/2-A	Lab Control Sample	92	100										
LCSD 880-42126/3-A	Lab Control Sample Dup	111	108										
LCSD 880-42127/3-A	Lab Control Sample Dup	83	91										
MB 880-42126/1-A	Method Blank	101	108										
MB 880-42127/1-A	Method Blank	102	109										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42504/5-A
Matrix: Solid
Analysis Batch: 42591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42504

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 11:12	12/24/22 17:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/22/22 11:12	12/24/22 17:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/22/22 11:12*	*12/24/22 17:39*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/22/22 11:12*	*12/24/22 17:39*	*1*

Lab Sample ID: MB 880-42513/5-A
Matrix: Solid
Analysis Batch: 42591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42513

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:02	12/25/22 05:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:02	12/25/22 05:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:02	12/25/22 05:14	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/22/22 12:02	12/25/22 05:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:02	12/25/22 05:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/22/22 12:02	12/25/22 05:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/22/22 12:02*	*12/25/22 05:14*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/22/22 12:02*	*12/25/22 05:14*	*1*

Lab Sample ID: LCS 880-42513/1-A
Matrix: Solid
Analysis Batch: 42591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42513

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09894		mg/Kg		99	70 - 130		
Toluene			0.100	0.09349		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.09337		mg/Kg		93	70 - 130		
m,p-Xylenes			0.200	0.1944		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.09457		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-42513/2-A
Matrix: Solid
Analysis Batch: 42591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42513

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1034		mg/Kg		103	70 - 130	4	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-42513/2-A
Matrix: Solid
Analysis Batch: 42591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42513

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09590		mg/Kg		96	70 - 130	3	35
Ethylbenzene			0.100	0.09557		mg/Kg		96	70 - 130	2	35
m,p-Xylenes			0.200	0.1978		mg/Kg		99	70 - 130	2	35
o-Xylene			0.100	0.09591		mg/Kg		96	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-42530/5-A
Matrix: Solid
Analysis Batch: 42656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42530

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 14:20	12/27/22 13:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 14:20	12/27/22 13:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 14:20	12/27/22 13:14	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/22/22 14:20	12/27/22 13:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 14:20	12/27/22 13:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/22/22 14:20	12/27/22 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/22/22 14:20*	*12/27/22 13:14*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/22/22 14:20*	*12/27/22 13:14*	*1*

Lab Sample ID: LCS 880-42530/1-A
Matrix: Solid
Analysis Batch: 42656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42530

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.09909		mg/Kg		99	70 - 130
Toluene			0.100	0.08980		mg/Kg		90	70 - 130
Ethylbenzene			0.100	0.08708		mg/Kg		87	70 - 130
m,p-Xylenes			0.200	0.1790		mg/Kg		90	70 - 130
o-Xylene			0.100	0.08598		mg/Kg		86	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-42530/2-A
Matrix: Solid
Analysis Batch: 42656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42530

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1022		mg/Kg		102	70 - 130	3	35
Toluene			0.100	0.09701		mg/Kg		97	70 - 130	8	35
Ethylbenzene			0.100	0.09160		mg/Kg		92	70 - 130	5	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-42530/2-A
Matrix: Solid
Analysis Batch: 42656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42530

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			0.200	0.1877		mg/Kg		94	70 - 130	5	35
o-Xylene			0.100	0.09028		mg/Kg		90	70 - 130	5	35

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

Lab Sample ID: MB 880-42683/5-A
Matrix: Solid
Analysis Batch: 42656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42683

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 00:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 00:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 00:49	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/27/22 11:01	12/28/22 00:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/22 11:01	12/28/22 00:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/22 11:01	12/28/22 00:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/27/22 11:01*	*12/28/22 00:49*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/27/22 11:01*	*12/28/22 00:49*	*1*

Lab Sample ID: LCS 880-42683/1-A
Matrix: Solid
Analysis Batch: 42656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42683

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.1001		mg/Kg		100	70 - 130
Toluene			0.100	0.09307		mg/Kg		93	70 - 130
Ethylbenzene			0.100	0.09116		mg/Kg		91	70 - 130
m,p-Xylenes			0.200	0.1889		mg/Kg		94	70 - 130
o-Xylene			0.100	0.09082		mg/Kg		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-42683/2-A
Matrix: Solid
Analysis Batch: 42656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42683

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1005		mg/Kg		101	70 - 130	0	35
Toluene			0.100	0.09383		mg/Kg		94	70 - 130	1	35
Ethylbenzene			0.100	0.09159		mg/Kg		92	70 - 130	0	35
m,p-Xylenes			0.200	0.1890		mg/Kg		94	70 - 130	0	35
o-Xylene			0.100	0.09238		mg/Kg		92	70 - 130	2	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-22851-8 MS — **Client Sample ID: C-30 0-4'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42656 — **Prep Batch: 42683**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U F2 F1	0.100	0.04853	F1	mg/Kg		48	70 - 130
Toluene	<0.00198	U F1	0.100	0.04977	F1	mg/Kg		50	70 - 130
Ethylbenzene	<0.00198	U F1	0.100	0.05237	F1	mg/Kg		52	70 - 130
m,p-Xylenes	<0.00396	U F1	0.200	0.1083	F1	mg/Kg		54	70 - 130
o-Xylene	<0.00198	U F1	0.100	0.05362	F1	mg/Kg		53	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-22851-8 MSD — **Client Sample ID: C-30 0-4'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42656 — **Prep Batch: 42683**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F2 F1	0.0990	0.07189	F2	mg/Kg		73	70 - 130	39	35
Toluene	<0.00198	U F1	0.0990	0.06759	F1	mg/Kg		68	70 - 130	30	35
Ethylbenzene	<0.00198	U F1	0.0990	0.06540	F1	mg/Kg		65	70 - 130	22	35
m,p-Xylenes	<0.00396	U F1	0.198	0.1363	F1	mg/Kg		69	70 - 130	23	35
o-Xylene	<0.00198	U F1	0.0990	0.06671	F1	mg/Kg		67	70 - 130	22	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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

Lab Sample ID: MB 880-42126/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42117 — **Prep Batch: 42126**

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		12/19/22 08:09	12/19/22 08:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/19/22 08:09	12/19/22 08:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/19/22 08:09	12/19/22 08:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	12/19/22 08:09	12/19/22 08:42	1
o-Terphenyl (Surr)	108		70 - 130	12/19/22 08:09	12/19/22 08:42	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-42126/2-A
Matrix: Solid
Analysis Batch: 42117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42126

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1044		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1028		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*123*		*70 - 130*
o-Terphenyl (Surr)	*121*		*70 - 130*

Lab Sample ID: LCSD 880-42126/3-A
Matrix: Solid
Analysis Batch: 42117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42126

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	879.7		mg/Kg		88	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	894.3		mg/Kg		89	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*111*		*70 - 130*
o-Terphenyl (Surr)	*108*		*70 - 130*

Lab Sample ID: MB 880-42127/1-A
Matrix: Solid
Analysis Batch: 42119

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42127

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		12/19/22 08:40	12/19/22 08:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/19/22 08:40	12/19/22 08:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/19/22 08:40	12/19/22 08:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*12/19/22 08:40*	*12/19/22 08:42*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*12/19/22 08:40*	*12/19/22 08:42*	*1*

Lab Sample ID: LCS 880-42127/2-A
Matrix: Solid
Analysis Batch: 42119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42127

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	828.3		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	784.8		mg/Kg		78	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-42127/2-A
Matrix: Solid
Analysis Batch: 42119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-42127/3-A
Matrix: Solid
Analysis Batch: 42119

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42127

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	755.1		mg/Kg		76	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	749.2		mg/Kg		75	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	83		70 - 130
o-Terphenyl (Surr)	91		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-42174/1-A
Matrix: Solid
Analysis Batch: 42290

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			12/20/22 08:33	1

Lab Sample ID: LCS 880-42174/2-A
Matrix: Solid
Analysis Batch: 42290

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	227.4		mg/Kg		91	90 - 110		

Lab Sample ID: LCSD 880-42174/3-A
Matrix: Solid
Analysis Batch: 42290

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	228.6		mg/Kg		91	90 - 110	1	20

Lab Sample ID: 880-22851-7 MS
Matrix: Solid
Analysis Batch: 42290

Client Sample ID: C-48 0-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	123	F1	248	340.1	F1	mg/Kg		88	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-22851-7 MSD
Matrix: Solid
Analysis Batch: 42290

Client Sample ID: C-48 0-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	123	F1	248	341.1	F1	mg/Kg		88	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

GC VOA

Prep Batch: 42504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42504/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 42513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-1	C-133 0-4'	Total/NA	Solid	5035	
880-22851-2	C-131 0-4'	Total/NA	Solid	5035	
MB 880-42513/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42513/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42513/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 42530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-3	C-183 4'	Total/NA	Solid	5035	
880-22851-4	C-184 4'	Total/NA	Solid	5035	
880-22851-5	C-185 4'	Total/NA	Solid	5035	
880-22851-6	C-186 4'	Total/NA	Solid	5035	
880-22851-7	C-48 0-4'	Total/NA	Solid	5035	
MB 880-42530/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42530/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42530/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 42591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-1	C-133 0-4'	Total/NA	Solid	8021B	42513
880-22851-2	C-131 0-4'	Total/NA	Solid	8021B	42513
MB 880-42504/5-A	Method Blank	Total/NA	Solid	8021B	42504
MB 880-42513/5-A	Method Blank	Total/NA	Solid	8021B	42513
LCS 880-42513/1-A	Lab Control Sample	Total/NA	Solid	8021B	42513
LCSD 880-42513/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42513

Analysis Batch: 42604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-1	C-133 0-4'	Total/NA	Solid	Total BTEX	
880-22851-2	C-131 0-4'	Total/NA	Solid	Total BTEX	
880-22851-3	C-183 4'	Total/NA	Solid	Total BTEX	
880-22851-4	C-184 4'	Total/NA	Solid	Total BTEX	
880-22851-5	C-185 4'	Total/NA	Solid	Total BTEX	
880-22851-6	C-186 4'	Total/NA	Solid	Total BTEX	
880-22851-7	C-48 0-4'	Total/NA	Solid	Total BTEX	
880-22851-8	C-30 0-4'	Total/NA	Solid	Total BTEX	
880-22851-9	C-129 0-4'	Total/NA	Solid	Total BTEX	
880-22851-10	C-81 4'	Total/NA	Solid	Total BTEX	
880-22851-11	BF-21	Total/NA	Solid	Total BTEX	
880-22851-12	BF-22	Total/NA	Solid	Total BTEX	
880-22851-13	BF-23	Total/NA	Solid	Total BTEX	
880-22851-14	BF-24	Total/NA	Solid	Total BTEX	
880-22851-15	BF-25	Total/NA	Solid	Total BTEX	

Analysis Batch: 42656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-3	C-183 4'	Total/NA	Solid	8021B	42530

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

GC VOA (Continued)

Analysis Batch: 42656 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-4	C-184 4'	Total/NA	Solid	8021B	42530
880-22851-5	C-185 4'	Total/NA	Solid	8021B	42530
880-22851-6	C-186 4'	Total/NA	Solid	8021B	42530
880-22851-7	C-48 0-4'	Total/NA	Solid	8021B	42530
880-22851-8	C-30 0-4'	Total/NA	Solid	8021B	42683
880-22851-9	C-129 0-4'	Total/NA	Solid	8021B	42683
880-22851-10	C-81 4'	Total/NA	Solid	8021B	42683
880-22851-11	BF-21	Total/NA	Solid	8021B	42683
880-22851-12	BF-22	Total/NA	Solid	8021B	42683
880-22851-13	BF-23	Total/NA	Solid	8021B	42683
880-22851-14	BF-24	Total/NA	Solid	8021B	42683
880-22851-15	BF-25	Total/NA	Solid	8021B	42683
MB 880-42530/5-A	Method Blank	Total/NA	Solid	8021B	42530
MB 880-42683/5-A	Method Blank	Total/NA	Solid	8021B	42683
LCS 880-42530/1-A	Lab Control Sample	Total/NA	Solid	8021B	42530
LCS 880-42683/1-A	Lab Control Sample	Total/NA	Solid	8021B	42683
LCSD 880-42530/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42530
LCSD 880-42683/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42683
880-22851-8 MS	C-30 0-4'	Total/NA	Solid	8021B	42683
880-22851-8 MSD	C-30 0-4'	Total/NA	Solid	8021B	42683

Prep Batch: 42683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-8	C-30 0-4'	Total/NA	Solid	5035	
880-22851-9	C-129 0-4'	Total/NA	Solid	5035	
880-22851-10	C-81 4'	Total/NA	Solid	5035	
880-22851-11	BF-21	Total/NA	Solid	5035	
880-22851-12	BF-22	Total/NA	Solid	5035	
880-22851-13	BF-23	Total/NA	Solid	5035	
880-22851-14	BF-24	Total/NA	Solid	5035	
880-22851-15	BF-25	Total/NA	Solid	5035	
MB 880-42683/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42683/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42683/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22851-8 MS	C-30 0-4'	Total/NA	Solid	5035	
880-22851-8 MSD	C-30 0-4'	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 42117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-1	C-133 0-4'	Total/NA	Solid	8015B NM	42126
880-22851-2	C-131 0-4'	Total/NA	Solid	8015B NM	42126
880-22851-3	C-183 4'	Total/NA	Solid	8015B NM	42126
880-22851-4	C-184 4'	Total/NA	Solid	8015B NM	42126
880-22851-5	C-185 4'	Total/NA	Solid	8015B NM	42126
880-22851-6	C-186 4'	Total/NA	Solid	8015B NM	42126
880-22851-7	C-48 0-4'	Total/NA	Solid	8015B NM	42126
MB 880-42126/1-A	Method Blank	Total/NA	Solid	8015B NM	42126
LCS 880-42126/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42126
LCSD 880-42126/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42126

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

GC Semi VOA

Analysis Batch: 42119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-8	C-30 0-4'	Total/NA	Solid	8015B NM	42127
880-22851-9	C-129 0-4'	Total/NA	Solid	8015B NM	42127
880-22851-10	C-81 4'	Total/NA	Solid	8015B NM	42127
880-22851-11	BF-21	Total/NA	Solid	8015B NM	42127
880-22851-12	BF-22	Total/NA	Solid	8015B NM	42127
880-22851-13	BF-23	Total/NA	Solid	8015B NM	42127
880-22851-14	BF-24	Total/NA	Solid	8015B NM	42127
880-22851-15	BF-25	Total/NA	Solid	8015B NM	42127
MB 880-42127/1-A	Method Blank	Total/NA	Solid	8015B NM	42127
LCS 880-42127/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42127
LCSD 880-42127/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42127

Prep Batch: 42126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-1	C-133 0-4'	Total/NA	Solid	8015NM Prep	
880-22851-2	C-131 0-4'	Total/NA	Solid	8015NM Prep	
880-22851-3	C-183 4'	Total/NA	Solid	8015NM Prep	
880-22851-4	C-184 4'	Total/NA	Solid	8015NM Prep	
880-22851-5	C-185 4'	Total/NA	Solid	8015NM Prep	
880-22851-6	C-186 4'	Total/NA	Solid	8015NM Prep	
880-22851-7	C-48 0-4'	Total/NA	Solid	8015NM Prep	
MB 880-42126/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42126/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42126/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 42127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-8	C-30 0-4'	Total/NA	Solid	8015NM Prep	
880-22851-9	C-129 0-4'	Total/NA	Solid	8015NM Prep	
880-22851-10	C-81 4'	Total/NA	Solid	8015NM Prep	
880-22851-11	BF-21	Total/NA	Solid	8015NM Prep	
880-22851-12	BF-22	Total/NA	Solid	8015NM Prep	
880-22851-13	BF-23	Total/NA	Solid	8015NM Prep	
880-22851-14	BF-24	Total/NA	Solid	8015NM Prep	
880-22851-15	BF-25	Total/NA	Solid	8015NM Prep	
MB 880-42127/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42127/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42127/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-1	C-133 0-4'	Total/NA	Solid	8015 NM	
880-22851-2	C-131 0-4'	Total/NA	Solid	8015 NM	
880-22851-3	C-183 4'	Total/NA	Solid	8015 NM	
880-22851-4	C-184 4'	Total/NA	Solid	8015 NM	
880-22851-5	C-185 4'	Total/NA	Solid	8015 NM	
880-22851-6	C-186 4'	Total/NA	Solid	8015 NM	
880-22851-7	C-48 0-4'	Total/NA	Solid	8015 NM	
880-22851-8	C-30 0-4'	Total/NA	Solid	8015 NM	
880-22851-9	C-129 0-4'	Total/NA	Solid	8015 NM	
880-22851-10	C-81 4'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

GC Semi VOA (Continued)

Analysis Batch: 42291 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-11	BF-21	Total/NA	Solid	8015 NM	
880-22851-12	BF-22	Total/NA	Solid	8015 NM	
880-22851-13	BF-23	Total/NA	Solid	8015 NM	
880-22851-14	BF-24	Total/NA	Solid	8015 NM	
880-22851-15	BF-25	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 42174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-1	C-133 0-4'	Soluble	Solid	DI Leach	
880-22851-2	C-131 0-4'	Soluble	Solid	DI Leach	
880-22851-3	C-183 4'	Soluble	Solid	DI Leach	
880-22851-4	C-184 4'	Soluble	Solid	DI Leach	
880-22851-5	C-185 4'	Soluble	Solid	DI Leach	
880-22851-6	C-186 4'	Soluble	Solid	DI Leach	
880-22851-7	C-48 0-4'	Soluble	Solid	DI Leach	
880-22851-8	C-30 0-4'	Soluble	Solid	DI Leach	
880-22851-9	C-129 0-4'	Soluble	Solid	DI Leach	
880-22851-10	C-81 4'	Soluble	Solid	DI Leach	
880-22851-11	BF-21	Soluble	Solid	DI Leach	
880-22851-12	BF-22	Soluble	Solid	DI Leach	
880-22851-13	BF-23	Soluble	Solid	DI Leach	
880-22851-14	BF-24	Soluble	Solid	DI Leach	
880-22851-15	BF-25	Soluble	Solid	DI Leach	
MB 880-42174/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42174/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-42174/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22851-7 MS	C-48 0-4'	Soluble	Solid	DI Leach	
880-22851-7 MSD	C-48 0-4'	Soluble	Solid	DI Leach	

Analysis Batch: 42290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-1	C-133 0-4'	Soluble	Solid	300.0	42174
880-22851-2	C-131 0-4'	Soluble	Solid	300.0	42174
880-22851-3	C-183 4'	Soluble	Solid	300.0	42174
880-22851-4	C-184 4'	Soluble	Solid	300.0	42174
880-22851-5	C-185 4'	Soluble	Solid	300.0	42174
880-22851-6	C-186 4'	Soluble	Solid	300.0	42174
880-22851-7	C-48 0-4'	Soluble	Solid	300.0	42174
880-22851-8	C-30 0-4'	Soluble	Solid	300.0	42174
880-22851-9	C-129 0-4'	Soluble	Solid	300.0	42174
880-22851-10	C-81 4'	Soluble	Solid	300.0	42174
880-22851-11	BF-21	Soluble	Solid	300.0	42174
880-22851-12	BF-22	Soluble	Solid	300.0	42174
880-22851-13	BF-23	Soluble	Solid	300.0	42174
880-22851-14	BF-24	Soluble	Solid	300.0	42174
880-22851-15	BF-25	Soluble	Solid	300.0	42174
MB 880-42174/1-A	Method Blank	Soluble	Solid	300.0	42174
LCS 880-42174/2-A	Lab Control Sample	Soluble	Solid	300.0	42174
LCSD 880-42174/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42174

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-22851-1
Project/Site: Limestone 1-H SDG: 21-0100-24

HPLC/IC (Continued)

Analysis Batch: 42290 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22851-7 MS	C-48 0-4'	Soluble	Solid	300.0	42174
880-22851-7 MSD	C-48 0-4'	Soluble	Solid	300.0	42174

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Client Sample ID: C-133 0-4'

Lab Sample ID: 880-22851-1
Matrix: Solid
Date Collected: 12/14/22 11:00
Date Received: 12/19/22 09:44

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	42513	12/22/22 12:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/25/22 11:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42126	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42117	12/19/22 15:49	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 09:13	CH	EET MID

Client Sample ID: C-131 0-4'

Lab Sample ID: 880-22851-2
Matrix: Solid
Date Collected: 12/14/22 12:20
Date Received: 12/19/22 09:44

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	42513	12/22/22 12:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42591	12/25/22 12:19	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/26/22 15:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42126	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42117	12/19/22 16:10	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 09:26	CH	EET MID

Client Sample ID: C-183 4'

Lab Sample ID: 880-22851-3
Matrix: Solid
Date Collected: 12/15/22 13:30
Date Received: 12/19/22 09:44

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	42530	12/22/22 14:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/27/22 19:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/28/22 09:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42126	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42117	12/19/22 16:31	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 09:31	CH	EET MID

Client Sample ID: C-184 4'

Lab Sample ID: 880-22851-4
Matrix: Solid
Date Collected: 12/15/22 13:40
Date Received: 12/19/22 09:44

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	42530	12/22/22 14:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/27/22 20:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/28/22 09:31	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Client Sample ID: C-184 4'

Date Collected: 12/15/22 13:40
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-4

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			42291	12/20/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	42126	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42117	12/19/22 16:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 09:35	CH	EET MID

Client Sample ID: C-185 4'

Date Collected: 12/15/22 14:00
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42530	12/22/22 14:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/27/22 20:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/28/22 09:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42126	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42117	12/19/22 17:13	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 09:40	CH	EET MID

Client Sample ID: C-186 4'

Date Collected: 12/15/22 14:10
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42530	12/22/22 14:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/27/22 20:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/28/22 09:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42126	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42117	12/19/22 17:33	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 09:44	CH	EET MID

Client Sample ID: C-48 0-4'

Date Collected: 12/15/22 15:00
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42530	12/22/22 14:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/27/22 21:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/28/22 09:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42126	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42117	12/19/22 17:54	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-22851-1
Project/Site: Limestone 1-H SDG: 21-0100-24

Client Sample ID: C-48 0-4' Lab Sample ID: 880-22851-7

Date Collected: 12/15/22 15:00 **Matrix: Solid**
Date Received: 12/19/22 09:44

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	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 09:49	CH	EET MID

Client Sample ID: C-30 0-4' Lab Sample ID: 880-22851-8

Date Collected: 12/16/22 08:10 **Matrix: Solid**
Date Received: 12/19/22 09:44

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	42683	12/27/22 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/28/22 01:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/28/22 09:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42127	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42119	12/19/22 15:07	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 10:02	CH	EET MID

Client Sample ID: C-129 0-4' Lab Sample ID: 880-22851-9

Date Collected: 12/16/22 09:40 **Matrix: Solid**
Date Received: 12/19/22 09:44

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	42683	12/27/22 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/28/22 01:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/28/22 09:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42127	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42119	12/19/22 15:49	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 10:07	CH	EET MID

Client Sample ID: C-81 4' Lab Sample ID: 880-22851-10

Date Collected: 12/16/22 12:30 **Matrix: Solid**
Date Received: 12/19/22 09:44

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	42683	12/27/22 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/28/22 01:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/28/22 09:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42127	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42119	12/19/22 16:10	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 10:20	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Client Sample ID: BF-21

Date Collected: 12/16/22 10:00
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	42683	12/27/22 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/28/22 02:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/28/22 09:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42127	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42119	12/19/22 16:31	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 10:24	CH	EET MID

Client Sample ID: BF-22

Date Collected: 12/16/22 10:10
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42683	12/27/22 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/28/22 02:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/28/22 09:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42127	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42119	12/19/22 16:52	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 10:29	CH	EET MID

Client Sample ID: BF-23

Date Collected: 12/16/22 10:20
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42683	12/27/22 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/28/22 02:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/28/22 09:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42127	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42119	12/19/22 17:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 10:33	CH	EET MID

Client Sample ID: BF-24

Date Collected: 12/16/22 10:30
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42683	12/27/22 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/28/22 03:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/28/22 09:31	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Client Sample ID: BF-24

Date Collected: 12/16/22 10:30
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42127	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42119	12/19/22 17:33	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 10:38	CH	EET MID

Client Sample ID: BF-25

Date Collected: 12/16/22 10:40
Date Received: 12/19/22 09:44

Lab Sample ID: 880-22851-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	42683	12/27/22 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/28/22 03:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42604	12/28/22 09:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42291	12/20/22 09:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42127	12/19/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42119	12/19/22 17:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42174	12/19/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42290	12/20/22 10:42	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-22851-1
Project/Site: Limestone 1-H SDG: 21-0100-24

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	T104704400-22-25	06-30-23

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. Job ID: 880-22851-1
Project/Site: Limestone 1-H SDG: 21-0100-24

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1-H

Job ID: 880-22851-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22851-1	C-133 0-4'	Solid	12/14/22 11:00	12/19/22 09:44
880-22851-2	C-131 0-4'	Solid	12/14/22 12:20	12/19/22 09:44
880-22851-3	C-183 4'	Solid	12/15/22 13:30	12/19/22 09:44
880-22851-4	C-184 4'	Solid	12/15/22 13:40	12/19/22 09:44
880-22851-5	C-185 4'	Solid	12/15/22 14:00	12/19/22 09:44
880-22851-6	C-186 4'	Solid	12/15/22 14:10	12/19/22 09:44
880-22851-7	C-48 0-4'	Solid	12/15/22 15:00	12/19/22 09:44
880-22851-8	C-30 0-4'	Solid	12/16/22 08:10	12/19/22 09:44
880-22851-9	C-129 0-4'	Solid	12/16/22 09:40	12/19/22 09:44
880-22851-10	C-81 4'	Solid	12/16/22 12:30	12/19/22 09:44
880-22851-11	BF-21	Solid	12/16/22 10:00	12/19/22 09:44
880-22851-12	BF-22	Solid	12/16/22 10:10	12/19/22 09:44
880-22851-13	BF-23	Solid	12/16/22 10:20	12/19/22 09:44
880-22851-14	BF-24	Solid	12/16/22 10:30	12/19/22 09:44
880-22851-15	BF-25	Solid	12/16/22 10:40	12/19/22 09:44

22851

No. 2842

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE 12/19/2022 PAGE 1 OF 1

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME LIMESTONE 1-H

LAI PROJECT # 21-0100-24 COLLECTOR S. BATES

Data Reported to

TRRP report? ☐ Yes ☑ No

TIME ZONE Time zone/State

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

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

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200 8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-133 0-4'		12/14/22	11:00	S	1						X	
C-131 0-4'		12/14/22	13:20								X	
C-183 4'		12/15/22	13:30								X	
C-184 4'		12/15/22	13:40								X	
C-185 4'		12/15/22	14:00								X	
C-186 4'		12/15/22	14:10								X	
C-178 0-4'		12/15/22	15:00								X	
C-30 0-4'		12/16/22	8:10								X	
C-129 0-4'		12/16/22	9:40								X	
C-81 4'		12/16/22	12:30	S	1						X	
BF-21		12/16/22	10:00	S	1						X	
BF-22		12/16/22	10:10								X	
BF-23		12/16/22	10:20								X	
BF-24		12/16/22	10:30								X	
BF-25		12/16/22	10:40								X	
TOTAL												

880-22851 Chain of Custody

RELINQUISHED BY (Signature) _____ DATE/TIME 12/19/22 0944 RECEIVED BY (Signature) _____ 0944

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

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

LABORATORY _____

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

LABORATORY USE ONLY:
RECEIVING TEMP 3.5 3.2 THERM# IR9
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☑ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Page 769 of 840
Received by OCD: 4/10/2023 5:31:08 PM
12/28/2022
Page 40 of 41
Released to Imaging: 5/12/2023 11:29:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-22851-1
SDG Number: 21-0100-24

Login Number: 22851
List Number: 1
Creator: Teel, Brianna

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 1/3/2023 10:12:59 AM

JOB DESCRIPTION

Limestone 1H
SDG NUMBER 21-0100-24

JOB NUMBER

880-23058-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/12/2023 11:29:26 AM

my EOL

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Holly Taylor

Generated
1/3/2023 10:12:59 AM

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Laboratory Job ID: 880-23058-1
SDG: 21-0100-24

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-23058-1
Project/Site: Limestone 1H SDG: 21-0100-24

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high 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, high 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.
¤	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. Job ID: 880-23058-1
Project/Site: Limestone 1H SDG: 21-0100-24

Job ID: 880-23058-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-23058-1

Receipt
The samples were received on 12/27/2022 10:32 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 0.3°C

Receipt Exceptions
The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar

GC VOA
Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-42758 and analytical batch 880-42900 recovered outside control limits for the following analytes: m,p-Xylenes and o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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: (CCV 880-42935/32), (CCV 880-42935/48) and (LCSD 880-42995/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-42995 and analytical batch 880-42935 was outside the upper control limits.

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 880-42865 and 880-42865 and analytical batch 880-42947 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: Limestone 1H

Job ID: 880-23058-1
SDG: 21-0100-24

Client Sample ID: C-157 0-4.1

Lab Sample ID: 880-23058-1
Matrix: Solid
Date Collected: 12/20/22 14:30
Date Received: 12/27/22 10:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/22 16:46	12/30/22 03:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/22 16:46	12/30/22 03:12	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		12/27/22 16:46	12/30/22 03:12	1
m,p-Xylenes	<0.00401	U *+	0.00401		mg/Kg		12/27/22 16:46	12/30/22 03:12	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		12/27/22 16:46	12/30/22 03:12	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		12/27/22 16:46	12/30/22 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*204*	*S1+*	*70 - 130*	*12/27/22 16:46*	*12/30/22 03:12*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*12/27/22 16:46*	*12/30/22 03:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/30/22 12:53	1

Method: SW846 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			12/30/22 12:41	1

Method: SW846 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		12/29/22 08:29	12/29/22 20:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/29/22 08:29	12/29/22 20:17	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/29/22 08:29	12/29/22 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*12/29/22 08:29*	*12/29/22 20:17*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*12/29/22 08:29*	*12/29/22 20:17*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**146**	**F1**	5.03		mg/Kg			12/31/22 00:21	1

Client Sample ID: C-27 0-4.1

Lab Sample ID: 880-23058-2
Matrix: Solid
Date Collected: 12/20/22 15:10
Date Received: 12/27/22 10:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/27/22 16:46	12/30/22 03:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/22 16:46	12/30/22 03:38	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		12/27/22 16:46	12/30/22 03:38	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		12/27/22 16:46	12/30/22 03:38	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		12/27/22 16:46	12/30/22 03:38	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		12/27/22 16:46	12/30/22 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*186*	*S1+*	*70 - 130*	*12/27/22 16:46*	*12/30/22 03:38*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*12/27/22 16:46*	*12/30/22 03:38*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23058-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-27 0-4.1 — Lab Sample ID: 880-23058-2

Date Collected: 12/20/22 15:10 **Matrix: Solid**
Date Received: 12/27/22 10:32

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/30/22 12:53	1

Method: SW846 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			12/30/22 12:41	1

Method: SW846 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		12/29/22 08:29	12/29/22 20:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/29/22 08:29	12/29/22 20:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/29/22 08:29	12/29/22 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*12/29/22 08:29*	*12/29/22 20:38*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*12/29/22 08:29*	*12/29/22 20:38*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.6**		5.00		mg/Kg			12/31/22 00:35	1

Client Sample ID: C-136 4.1' — Lab Sample ID: 880-23058-3

Date Collected: 12/21/22 13:00 **Matrix: Solid**
Date Received: 12/27/22 10:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 07:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 07:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 07:46	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/27/22 14:52	12/30/22 07:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 07:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/22 14:52	12/30/22 07:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/27/22 14:52*	*12/30/22 07:46*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*12/27/22 14:52*	*12/30/22 07:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/30/22 13:19	1

Method: SW846 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			01/03/23 11:01	1

Method: SW846 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		12/30/22 15:02	12/31/22 09:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/30/22 15:02	12/31/22 09:00	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23058-1
Project/Site: Limestone 1H SDG: 21-0100-24

Client Sample ID: C-136 4.1'
Lab Sample ID: 880-23058-3
Date Collected: 12/21/22 13:00 **Matrix: Solid**
Date Received: 12/27/22 10:32

Method: SW846 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		12/30/22 15:02	12/31/22 09:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*125*		*70 - 130*	*12/30/22 15:02*	*12/31/22 09:00*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*12/30/22 15:02*	*12/31/22 09:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**141**		4.97		mg/Kg			12/31/22 00:39	1

Client Sample ID: C-230 4.1'
Lab Sample ID: 880-23058-4
Date Collected: 12/21/22 14:20 **Matrix: Solid**
Date Received: 12/27/22 10:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/27/22 14:52	12/30/22 08:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/22 14:52	12/30/22 08:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/22 14:52	12/30/22 08:06	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/27/22 14:52	12/30/22 08:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/22 14:52	12/30/22 08:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/22 14:52	12/30/22 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/27/22 14:52*	*12/30/22 08:06*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/27/22 14:52*	*12/30/22 08:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/30/22 13:19	1

Method: SW846 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			01/03/23 11:01	1

Method: SW846 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		12/30/22 15:02	12/31/22 09:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/22 15:02	12/31/22 09:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/22 15:02	12/31/22 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*124*		*70 - 130*	*12/30/22 15:02*	*12/31/22 09:24*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*12/30/22 15:02*	*12/31/22 09:24*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**373**		5.05		mg/Kg			12/31/22 00:44	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23058-1
SDG: 21-0100-24

Client Sample ID: C-244 0-4.1

Date Collected: 12/21/22 14:40
Date Received: 12/27/22 10:32

Lab Sample ID: 880-23058-5

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/27/22 14:52	12/30/22 08:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/27/22 14:52	12/30/22 08:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/27/22 14:52	12/30/22 08:26	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		12/27/22 14:52	12/30/22 08:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/27/22 14:52	12/30/22 08:26	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/27/22 14:52	12/30/22 08:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/27/22 14:52*	*12/30/22 08:26*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/27/22 14:52*	*12/30/22 08:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/30/22 13:19	1

Method: SW846 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			01/03/23 11:01	1

Method: SW846 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		12/30/22 15:02	12/31/22 09:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/22 15:02	12/31/22 09:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/22 15:02	12/31/22 09:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*12/30/22 15:02*	*12/31/22 09:47*	*1*
o-Terphenyl (Surr)	*81*		*70 - 130*	*12/30/22 15:02*	*12/31/22 09:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**566**		4.99		mg/Kg			12/31/22 00:49	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23058-1
SDG: 21-0100-24

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)
880-23058-1	C-157 0-4.1	204 S1+	83
880-23058-2	C-27 0-4.1	186 S1+	75
880-23058-3	C-136 4.1'	103	111
880-23058-4	C-230 4.1'	95	104
880-23058-5	C-244 0-4.1	105	110
LCS 880-42736/1-A	Lab Control Sample	94	110
LCS 880-42758/1-A	Lab Control Sample	189 S1+	86
LCSD 880-42736/2-A	Lab Control Sample Dup	95	110
LCSD 880-42758/2-A	Lab Control Sample Dup	197 S1+	80
MB 880-42727/5-A	Method Blank	93	105
MB 880-42736/5-A	Method Blank	97	106
MB 880-42758/5-A	Method Blank	124	72

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)
880-23058-1	C-157 0-4.1	119	115
880-23058-2	C-27 0-4.1	113	109
880-23058-3	C-136 4.1'	125	103
880-23058-4	C-230 4.1'	124	105
880-23058-5	C-244 0-4.1	93	81
LCS 880-42834/2-A	Lab Control Sample	102	115
LCS 880-42995/2-A	Lab Control Sample	120	124
LCSD 880-42834/3-A	Lab Control Sample Dup	110	122
LCSD 880-42995/3-A	Lab Control Sample Dup	142 S1+	145 S1+
MB 880-42834/1-A	Method Blank	113	113
MB 880-42995/1-A	Method Blank	151 S1+	142 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23058-1
SDG: 21-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42727/5-A
Matrix: Solid
Analysis Batch: 42843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42727

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:29	12/29/22 13:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:29	12/29/22 13:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:29	12/29/22 13:27	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/28/22 14:29	12/29/22 13:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:29	12/29/22 13:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/28/22 14:29	12/29/22 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/28/22 14:29*	*12/29/22 13:27*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/28/22 14:29*	*12/29/22 13:27*	*1*

Lab Sample ID: MB 880-42736/5-A
Matrix: Solid
Analysis Batch: 42843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42736

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 01:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 01:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 01:02	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/27/22 14:52	12/30/22 01:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/22 14:52	12/30/22 01:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/22 14:52	12/30/22 01:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/27/22 14:52*	*12/30/22 01:02*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/27/22 14:52*	*12/30/22 01:02*	*1*

Lab Sample ID: LCS 880-42736/1-A
Matrix: Solid
Analysis Batch: 42843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42736

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1017		mg/Kg		102	70 - 130		
Toluene			0.100	0.09127		mg/Kg		91	70 - 130		
Ethylbenzene			0.100	0.08777		mg/Kg		88	70 - 130		
m,p-Xylenes			0.200	0.1797		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.08649		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 880-42736/2-A
Matrix: Solid
Analysis Batch: 42843

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42736

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09400		mg/Kg		94	70 - 130	8	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23058-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-42736/2-A
Matrix: Solid
Analysis Batch: 42843

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42736

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08590		mg/Kg		86	70 - 130	6	35
Ethylbenzene			0.100	0.08224		mg/Kg		82	70 - 130	7	35
m,p-Xylenes			0.200	0.1701		mg/Kg		85	70 - 130	6	35
o-Xylene			0.100	0.08304		mg/Kg		83	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: MB 880-42758/5-A
Matrix: Solid
Analysis Batch: 42900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42758

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/22 16:46	12/29/22 17:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/22 16:46	12/29/22 17:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/22 16:46	12/29/22 17:39	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/27/22 16:46	12/29/22 17:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/22 16:46	12/29/22 17:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/22 16:46	12/29/22 17:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*12/27/22 16:46*	*12/29/22 17:39*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*12/27/22 16:46*	*12/29/22 17:39*	*1*

Lab Sample ID: LCS 880-42758/1-A
Matrix: Solid
Analysis Batch: 42900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42758

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1142		mg/Kg		114	70 - 130		
Toluene			0.100	0.1112		mg/Kg		111	70 - 130		
Ethylbenzene			0.100	0.1288		mg/Kg		129	70 - 130		
m,p-Xylenes			0.200	0.2632	*+	mg/Kg		132	70 - 130		
o-Xylene			0.100	0.1327	*+	mg/Kg		133	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*189*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: LCSD 880-42758/2-A
Matrix: Solid
Analysis Batch: 42900

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42758

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1196		mg/Kg		120	70 - 130	5	35
Toluene			0.100	0.1153		mg/Kg		115	70 - 130	4	35
Ethylbenzene			0.100	0.1402	*+	mg/Kg		140	70 - 130	8	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23058-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-42758/2-A
Matrix: Solid
Analysis Batch: 42900

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42758

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			0.200	0.2850	*+	mg/Kg		142	70 - 130	8	35
o-Xylene			0.100	0.1412	*+	mg/Kg		141	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*197*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

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

Lab Sample ID: MB 880-42834/1-A
Matrix: Solid
Analysis Batch: 42861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42834

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		12/29/22 08:29	12/29/22 13:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/29/22 08:29	12/29/22 13:34	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/29/22 08:29	12/29/22 13:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*12/29/22 08:29*	*12/29/22 13:34*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*12/29/22 08:29*	*12/29/22 13:34*	*1*

Lab Sample ID: LCS 880-42834/2-A
Matrix: Solid
Analysis Batch: 42861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42834

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	918.0		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1002		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*102*		*70 - 130*
o-Terphenyl (Surr)	*115*		*70 - 130*

Lab Sample ID: LCSD 880-42834/3-A
Matrix: Solid
Analysis Batch: 42861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42834

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	824.8		mg/Kg		82	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1088		mg/Kg		109	70 - 130	8	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23058-1
SDG: 21-0100-24

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

Lab Sample ID: LCSD 880-42834/3-A
Matrix: Solid
Analysis Batch: 42861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42834

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	122		70 - 130

Lab Sample ID: MB 880-42995/1-A
Matrix: Solid
Analysis Batch: 42935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42995

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		12/30/22 15:02	12/31/22 00:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/22 15:02	12/31/22 00:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/22 15:02	12/31/22 00:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	151	S1+	70 - 130	12/30/22 15:02	12/31/22 00:12	1
o-Terphenyl (Surr)	142	S1+	70 - 130	12/30/22 15:02	12/31/22 00:12	1

Lab Sample ID: LCS 880-42995/2-A
Matrix: Solid
Analysis Batch: 42935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42995

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1032		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1095		mg/Kg		109	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	120		70 - 130
o-Terphenyl (Surr)	124		70 - 130

Lab Sample ID: LCSD 880-42995/3-A
Matrix: Solid
Analysis Batch: 42935

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42995

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	974.3		mg/Kg		97	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1304		mg/Kg		130	70 - 130	17	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	142	S1+	70 - 130
o-Terphenyl (Surr)	145	S1+	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23058-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-42865/1-A
Matrix: Solid
Analysis Batch: 42947

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			12/31/22 00:07	1

Lab Sample ID: LCS 880-42865/2-A
Matrix: Solid
Analysis Batch: 42947

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.6		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-42865/3-A
Matrix: Solid
Analysis Batch: 42947

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	254.8		mg/Kg		102	90 - 110	3	20

Lab Sample ID: 880-23058-1 MS
Matrix: Solid
Analysis Batch: 42947

Client Sample ID: C-157 0-4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	146	F1	252	424.7	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 880-23058-1 MSD
Matrix: Solid
Analysis Batch: 42947

Client Sample ID: C-157 0-4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	146	F1	252	413.4		mg/Kg		106	90 - 110	3	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23058-1
SDG: 21-0100-24

GC VOA

Prep Batch: 42727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42727/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 42736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23058-3	C-136 4.1'	Total/NA	Solid	5035	
880-23058-4	C-230 4.1'	Total/NA	Solid	5035	
880-23058-5	C-244 0-4.1	Total/NA	Solid	5035	
MB 880-42736/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42736/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42736/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 42758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23058-1	C-157 0-4.1	Total/NA	Solid	5035	
880-23058-2	C-27 0-4.1	Total/NA	Solid	5035	
MB 880-42758/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42758/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42758/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 42843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23058-3	C-136 4.1'	Total/NA	Solid	8021B	42736
880-23058-4	C-230 4.1'	Total/NA	Solid	8021B	42736
880-23058-5	C-244 0-4.1	Total/NA	Solid	8021B	42736
MB 880-42727/5-A	Method Blank	Total/NA	Solid	8021B	42727
MB 880-42736/5-A	Method Blank	Total/NA	Solid	8021B	42736
LCS 880-42736/1-A	Lab Control Sample	Total/NA	Solid	8021B	42736
LCSD 880-42736/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42736

Analysis Batch: 42900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23058-1	C-157 0-4.1	Total/NA	Solid	8021B	42758
880-23058-2	C-27 0-4.1	Total/NA	Solid	8021B	42758
MB 880-42758/5-A	Method Blank	Total/NA	Solid	8021B	42758
LCS 880-42758/1-A	Lab Control Sample	Total/NA	Solid	8021B	42758
LCSD 880-42758/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42758

Analysis Batch: 42966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23058-1	C-157 0-4.1	Total/NA	Solid	Total BTEX	
880-23058-2	C-27 0-4.1	Total/NA	Solid	Total BTEX	
880-23058-3	C-136 4.1'	Total/NA	Solid	Total BTEX	
880-23058-4	C-230 4.1'	Total/NA	Solid	Total BTEX	
880-23058-5	C-244 0-4.1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 42834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23058-1	C-157 0-4.1	Total/NA	Solid	8015NM Prep	
880-23058-2	C-27 0-4.1	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-23058-1
Project/Site: Limestone 1H SDG: 21-0100-24

GC Semi VOA (Continued)

Prep Batch: 42834 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42834/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42834/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23058-1	C-157 0-4.1	Total/NA	Solid	8015B NM	42834
880-23058-2	C-27 0-4.1	Total/NA	Solid	8015B NM	42834
MB 880-42834/1-A	Method Blank	Total/NA	Solid	8015B NM	42834
LCS 880-42834/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42834
LCSD 880-42834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42834

Analysis Batch: 42935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23058-3	C-136 4.1'	Total/NA	Solid	8015B NM	42995
880-23058-4	C-230 4.1'	Total/NA	Solid	8015B NM	42995
880-23058-5	C-244 0-4.1	Total/NA	Solid	8015B NM	42995
MB 880-42995/1-A	Method Blank	Total/NA	Solid	8015B NM	42995
LCS 880-42995/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42995
LCSD 880-42995/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42995

Analysis Batch: 42956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23058-1	C-157 0-4.1	Total/NA	Solid	8015 NM	
880-23058-2	C-27 0-4.1	Total/NA	Solid	8015 NM	
880-23058-3	C-136 4.1'	Total/NA	Solid	8015 NM	
880-23058-4	C-230 4.1'	Total/NA	Solid	8015 NM	
880-23058-5	C-244 0-4.1	Total/NA	Solid	8015 NM	

Prep Batch: 42995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23058-3	C-136 4.1'	Total/NA	Solid	8015NM Prep	
880-23058-4	C-230 4.1'	Total/NA	Solid	8015NM Prep	
880-23058-5	C-244 0-4.1	Total/NA	Solid	8015NM Prep	
MB 880-42995/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42995/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42995/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 42865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23058-1	C-157 0-4.1	Soluble	Solid	DI Leach	
880-23058-2	C-27 0-4.1	Soluble	Solid	DI Leach	
880-23058-3	C-136 4.1'	Soluble	Solid	DI Leach	
880-23058-4	C-230 4.1'	Soluble	Solid	DI Leach	
880-23058-5	C-244 0-4.1	Soluble	Solid	DI Leach	
MB 880-42865/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42865/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-42865/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23058-1 MS	C-157 0-4.1	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-23058-1
Project/Site: Limestone 1H SDG: 21-0100-24

HPLC/IC (Continued)

Leach Batch: 42865 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23058-1 MSD	C-157 0-4.1	Soluble	Solid	DI Leach	

Analysis Batch: 42947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23058-1	C-157 0-4.1	Soluble	Solid	300.0	42865
880-23058-2	C-27 0-4.1	Soluble	Solid	300.0	42865
880-23058-3	C-136 4.1'	Soluble	Solid	300.0	42865
880-23058-4	C-230 4.1'	Soluble	Solid	300.0	42865
880-23058-5	C-244 0-4.1	Soluble	Solid	300.0	42865
MB 880-42865/1-A	Method Blank	Soluble	Solid	300.0	42865
LCS 880-42865/2-A	Lab Control Sample	Soluble	Solid	300.0	42865
LCSD 880-42865/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42865
880-23058-1 MS	C-157 0-4.1	Soluble	Solid	300.0	42865
880-23058-1 MSD	C-157 0-4.1	Soluble	Solid	300.0	42865

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23058-1
SDG: 21-0100-24

Client Sample ID: C-157 0-4.1

Lab Sample ID: 880-23058-1

Date Collected: 12/20/22 14:30
Matrix: Solid
Date Received: 12/27/22 10:32

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	42758	12/27/22 16:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42900	12/30/22 03:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42966	12/30/22 12:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42956	12/30/22 12:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42834	12/29/22 08:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42861	12/29/22 20:17	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42865	12/29/22 10:48	KS	EET MID
Soluble	Analysis	300.0		1			42947	12/31/22 00:21	CH	EET MID

Client Sample ID: C-27 0-4.1

Lab Sample ID: 880-23058-2

Date Collected: 12/20/22 15:10
Matrix: Solid
Date Received: 12/27/22 10:32

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	42758	12/27/22 16:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42900	12/30/22 03:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42966	12/30/22 12:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42956	12/30/22 12:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42834	12/29/22 08:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42861	12/29/22 20:38	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42865	12/29/22 10:48	KS	EET MID
Soluble	Analysis	300.0		1			42947	12/31/22 00:35	CH	EET MID

Client Sample ID: C-136 4.1'

Lab Sample ID: 880-23058-3

Date Collected: 12/21/22 13:00
Matrix: Solid
Date Received: 12/27/22 10:32

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	42736	12/27/22 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42843	12/30/22 07:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42966	12/30/22 13:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42956	01/03/23 11:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42995	12/30/22 15:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42935	12/31/22 09:00	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	42865	12/29/22 10:48	KS	EET MID
Soluble	Analysis	300.0		1			42947	12/31/22 00:39	CH	EET MID

Client Sample ID: C-230 4.1'

Lab Sample ID: 880-23058-4

Date Collected: 12/21/22 14:20
Matrix: Solid
Date Received: 12/27/22 10:32

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	42736	12/27/22 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42843	12/30/22 08:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42966	12/30/22 13:19	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23058-1
SDG: 21-0100-24

Client Sample ID: C-230 4.1'

Lab Sample ID: 880-23058-4
Matrix: Solid
Date Collected: 12/21/22 14:20
Date Received: 12/27/22 10:32

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			42956	01/03/23 11:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42995	12/30/22 15:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42935	12/31/22 09:24	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	42865	12/29/22 10:48	KS	EET MID
Soluble	Analysis	300.0		1			42947	12/31/22 00:44	CH	EET MID

Client Sample ID: C-244 0-4.1

Lab Sample ID: 880-23058-5
Matrix: Solid
Date Collected: 12/21/22 14:40
Date Received: 12/27/22 10:32

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	42736	12/27/22 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42843	12/30/22 08:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42966	12/30/22 13:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42956	01/03/23 11:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42995	12/30/22 15:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42935	12/31/22 09:47	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	42865	12/29/22 10:48	KS	EET MID
Soluble	Analysis	300.0		1			42947	12/31/22 00:49	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-23058-1
Project/Site: Limestone 1H SDG: 21-0100-24

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	T104704400-22-25	06-30-23

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. Job ID: 880-23058-1
Project/Site: Limestone 1H SDG: 21-0100-24

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23058-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23058-1	C-157 0-4.1	Solid	12/20/22 14:30	12/27/22 10:32
880-23058-2	C-27 0-4.1	Solid	12/20/22 15:10	12/27/22 10:32
880-23058-3	C-136 4.1'	Solid	12/21/22 13:00	12/27/22 10:32
880-23058-4	C-230 4.1'	Solid	12/21/22 14:20	12/27/22 10:32
880-23058-5	C-244 0-4.1	Solid	12/21/22 14:40	12/27/22 10:32

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23058

No. 2843 CHAIN-OF-CUSTODY

1/3/2023

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE 12/27/2022 PAGE 1 OF 1

PO#: LAB WORK ORDER#

PROJECT LOCATION OR NAME LIMESTONE 1H

LAI PROJECT # 21-0100-24 COLLECTOR S. BATES

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State MST / NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	CYANIDE ☐	pH ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-157 0-4.1		12/20/22	1430	S	1				X		X				X	X	X																								X				
C-27 0-4.1		12/20/22	1510	S	1				X		X				X	X	X																								X				
C-136 4.1'		12/21/22	1300	S	1				X		X				X	X	X																								X				
C-230 4.1'		12/21/22	14:20	S	1				X		X				X	X	X																								X				
C-244 0-4.1'		12/21/22	14:40	S	1				X		X				X	X	X																								X				

TOTAL 5

880-23058 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	12/27/22 1032	[signature]
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 0.4/0.3 THERM# TR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Received by OCD: 4/10/2023 5:31:08 PM

Released to Imaging: 5/12/2023 11:29:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-23058-1
SDG Number: 21-0100-24

Login Number: 23058
List Number: 1
Creator: Teel, Brianna

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 1/11/2023 2:51:52 PM Revision 1

JOB DESCRIPTION

Limestone 1H
SDG NUMBER 21-0100-24

JOB NUMBER

880-23272-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/12/2023 11:29:26 AM

my EOL

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Holly Taylor

Generated
1/11/2023 2:51:52 PM
Revision 1

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Laboratory Job ID: 880-23272-1
SDG: 21-0100-24

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-23272-1
Project/Site: Limestone 1H SDG: 21-0100-24

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery 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, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

Job ID: 880-23272-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-23272-1

Revision
The report being provided is a revision of the original report sent on 1/5/2023. The report (revision 1) is being revised to change the Project Number per Robert Nelson (email).

Receipt
The samples were received on 1/4/2023 8:26 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 2.9º C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BG-1, 0.5' (880-23272-1), BG-1, 1' (880-23272-2), BG-1, 2' (880-23272-3), BG-2, 0.5' (880-23272-4), BG-2, 1' (880-23272-5) and BG-2, 2' (880-23272-6).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-43162 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m,p-Xylenes and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-43118 and analytical batch 880-43162 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m,p-Xylenes and o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43118 and analytical batch 880-43162 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BG-1, 0.5' (880-23272-1), BG-1, 1' (880-23272-2), BG-1, 2' (880-23272-3), BG-2, 0.5' (880-23272-4), BG-2, 1' (880-23272-5), BG-2, 2' (880-23272-6) and (MB 880-43118/5-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.

GC Semi VOA
Method 8015B NM: Surrogate recovery for the following samples were outside control limits: BG-2, 0.5' (880-23272-4). 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.

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

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

Client Sample ID: BG-1, 0.5'

Date Collected: 01/03/23 12:15
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202		mg/Kg		01/04/23 09:08	01/04/23 17:17	1
Toluene	<0.00202	U *+	0.00202		mg/Kg		01/04/23 09:08	01/04/23 17:17	1
Ethylbenzene	<0.00202	U *+ F1	0.00202		mg/Kg		01/04/23 09:08	01/04/23 17:17	1
m,p-Xylenes	<0.00403	U *+ F1	0.00403		mg/Kg		01/04/23 09:08	01/04/23 17:17	1
o-Xylene	<0.00202	U *+ F1	0.00202		mg/Kg		01/04/23 09:08	01/04/23 17:17	1
Xylenes, Total	<0.00403	U *+ F1	0.00403		mg/Kg		01/04/23 09:08	01/04/23 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*351*	*S1+*	*70 - 130*	*01/04/23 09:08*	*01/04/23 17:17*	*1*
1,4-Difluorobenzene (Surr)	*55*	*S1-*	*70 - 130*	*01/04/23 09:08*	*01/04/23 17:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/05/23 10:08	1

Method: SW846 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			01/05/23 12:50	1

Method: SW846 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		01/04/23 11:55	01/04/23 21:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/04/23 11:55	01/04/23 21:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/04/23 11:55	01/04/23 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*01/04/23 11:55*	*01/04/23 21:40*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*01/04/23 11:55*	*01/04/23 21:40*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			01/04/23 13:10	1

Client Sample ID: BG-1, 1'

Date Collected: 01/03/23 12:17
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		01/04/23 09:08	01/04/23 17:43	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		01/04/23 09:08	01/04/23 17:43	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		01/04/23 09:08	01/04/23 17:43	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		01/04/23 09:08	01/04/23 17:43	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		01/04/23 09:08	01/04/23 17:43	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		01/04/23 09:08	01/04/23 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*339*	*S1+*	*70 - 130*	*01/04/23 09:08*	*01/04/23 17:43*	*1*
1,4-Difluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*01/04/23 09:08*	*01/04/23 17:43*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

Client Sample ID: BG-1, 1'

Date Collected: 01/03/23 12:17
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/05/23 10:08	1

Method: SW846 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			01/05/23 12:50	1

Method: SW846 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		01/04/23 11:55	01/04/23 22:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/04/23 11:55	01/04/23 22:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/04/23 11:55	01/04/23 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*01/04/23 11:55*	*01/04/23 22:44*	*1*
o-Terphenyl (Surr)	*126*		*70 - 130*	*01/04/23 11:55*	*01/04/23 22:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			01/04/23 13:15	1

Client Sample ID: BG-1, 2'

Date Collected: 01/03/23 12:20
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		01/04/23 09:08	01/04/23 18:09	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		01/04/23 09:08	01/04/23 18:09	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		01/04/23 09:08	01/04/23 18:09	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		01/04/23 09:08	01/04/23 18:09	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		01/04/23 09:08	01/04/23 18:09	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		01/04/23 09:08	01/04/23 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*463*	*S1+*	*70 - 130*	*01/04/23 09:08*	*01/04/23 18:09*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/04/23 09:08*	*01/04/23 18:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/05/23 10:08	1

Method: SW846 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			01/05/23 12:50	1

Method: SW846 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		01/04/23 11:55	01/04/23 23:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/04/23 11:55	01/04/23 23:06	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

Client Sample ID: BG-1, 2'

Date Collected: 01/03/23 12:20
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-3

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/04/23 11:55	01/04/23 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*01/04/23 11:55*	*01/04/23 23:06*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*01/04/23 11:55*	*01/04/23 23:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			01/04/23 13:29	1

Client Sample ID: BG-2, 0.5'

Date Collected: 01/03/23 12:23
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-4

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		01/04/23 09:08	01/04/23 18:34	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		01/04/23 09:08	01/04/23 18:34	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		01/04/23 09:08	01/04/23 18:34	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		01/04/23 09:08	01/04/23 18:34	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		01/04/23 09:08	01/04/23 18:34	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		01/04/23 09:08	01/04/23 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*408*	*S1+*	*70 - 130*	*01/04/23 09:08*	*01/04/23 18:34*	*1*
1,4-Difluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*01/04/23 09:08*	*01/04/23 18:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/05/23 10:08	1

Method: SW846 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			01/05/23 12:50	1

Method: SW846 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		01/04/23 11:55	01/04/23 23:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/04/23 11:55	01/04/23 23:27	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/04/23 11:55	01/04/23 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*139*	*S1+*	*70 - 130*	*01/04/23 11:55*	*01/04/23 23:27*	*1*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*	*01/04/23 11:55*	*01/04/23 23:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.30**		5.00		mg/Kg			01/04/23 13:34	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

Client Sample ID: BG-2, 1'

Date Collected: 01/03/23 12:25
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-5

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		01/04/23 09:08	01/04/23 18:59	1
Toluene	<0.00201	U *+	0.00201		mg/Kg		01/04/23 09:08	01/04/23 18:59	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		01/04/23 09:08	01/04/23 18:59	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		01/04/23 09:08	01/04/23 18:59	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		01/04/23 09:08	01/04/23 18:59	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		01/04/23 09:08	01/04/23 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*401*	*S1+*	*70 - 130*	*01/04/23 09:08*	*01/04/23 18:59*	*1*
1,4-Difluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*01/04/23 09:08*	*01/04/23 18:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/05/23 10:08	1

Method: SW846 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			01/05/23 12:50	1

Method: SW846 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		01/04/23 11:55	01/04/23 23:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/04/23 11:55	01/04/23 23:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/04/23 11:55	01/04/23 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*01/04/23 11:55*	*01/04/23 23:48*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*01/04/23 11:55*	*01/04/23 23:48*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			01/04/23 13:39	1

Client Sample ID: BG-2, 2'

Date Collected: 01/03/23 12:27
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-6

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		01/04/23 09:08	01/04/23 19:24	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		01/04/23 09:08	01/04/23 19:24	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		01/04/23 09:08	01/04/23 19:24	1
m,p-Xylenes	<0.00401	U *+	0.00401		mg/Kg		01/04/23 09:08	01/04/23 19:24	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		01/04/23 09:08	01/04/23 19:24	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		01/04/23 09:08	01/04/23 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*396*	*S1+*	*70 - 130*	*01/04/23 09:08*	*01/04/23 19:24*	*1*
1,4-Difluorobenzene (Surr)	*55*	*S1-*	*70 - 130*	*01/04/23 09:08*	*01/04/23 19:24*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

Client Sample ID: BG-2, 2'

Date Collected: 01/03/23 12:27
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-6

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/05/23 10:08	1

Method: SW846 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			01/05/23 12:50	1

Method: SW846 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		01/04/23 11:55	01/05/23 00:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/04/23 11:55	01/05/23 00:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/23 11:55	01/05/23 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*01/04/23 11:55*	*01/05/23 00:09*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*01/04/23 11:55*	*01/05/23 00:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.6**		5.01		mg/Kg			01/04/23 13:43	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-23272-1	BG-1, 0.5'	351 S1+	55 S1-
880-23272-1 MS	BG-1, 0.5'	396 S1+	65 S1-
880-23272-1 MSD	BG-1, 0.5'	358 S1+	63 S1-
880-23272-2	BG-1, 1'	339 S1+	66 S1-
880-23272-3	BG-1, 2'	463 S1+	86
880-23272-4	BG-2, 0.5'	408 S1+	60 S1-
880-23272-5	BG-2, 1'	401 S1+	60 S1-
880-23272-6	BG-2, 2'	396 S1+	55 S1-
LCS 880-43118/1-A	Lab Control Sample	345 S1+	60 S1-
LCSD 880-43118/2-A	Lab Control Sample Dup	413 S1+	66 S1-
MB 880-43118/5-A	Method Blank	249 S1+	55 S1-

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-23272-1	BG-1, 0.5'	103	109
880-23272-1 MS	BG-1, 0.5'	107	103
880-23272-1 MSD	BG-1, 0.5'	109	106
880-23272-2	BG-1, 1'	120	126
880-23272-3	BG-1, 2'	107	114
880-23272-4	BG-2, 0.5'	139 S1+	142 S1+
880-23272-5	BG-2, 1'	111	118
880-23272-6	BG-2, 2'	113	121
LCS 880-43158/2-A	Lab Control Sample	87	87
LCSD 880-43158/3-A	Lab Control Sample Dup	88	89
MB 880-43158/1-A	Method Blank	109	123

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43118/5-A
Matrix: Solid
Analysis Batch: 43162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43118

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/04/23 09:08	01/04/23 16:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/04/23 09:08	01/04/23 16:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/04/23 09:08	01/04/23 16:52	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/04/23 09:08	01/04/23 16:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/04/23 09:08	01/04/23 16:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/04/23 09:08	01/04/23 16:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*249*	*S1+*	*70 - 130*	*01/04/23 09:08*	*01/04/23 16:52*	*1*
1,4-Difluorobenzene (Surr)	*55*	*S1-*	*70 - 130*	*01/04/23 09:08*	*01/04/23 16:52*	*1*

Lab Sample ID: LCS 880-43118/1-A
Matrix: Solid
Analysis Batch: 43162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43118

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1209		mg/Kg		121	70 - 130		
Toluene			0.100	0.1303		mg/Kg		130	70 - 130		
Ethylbenzene			0.100	0.1609	*+	mg/Kg		161	70 - 130		
m,p-Xylenes			0.200	0.3236	*+	mg/Kg		162	70 - 130		
o-Xylene			0.100	0.1584	*+	mg/Kg		158	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*345*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*60*	*S1-*	*70 - 130*

Lab Sample ID: LCSD 880-43118/2-A
Matrix: Solid
Analysis Batch: 43162

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43118

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1472	*+	mg/Kg		147	70 - 130	20	35
Toluene			0.100	0.1393	*+	mg/Kg		139	70 - 130	7	35
Ethylbenzene			0.100	0.1899	*+	mg/Kg		190	70 - 130	17	35
m,p-Xylenes			0.200	0.3906	*+	mg/Kg		195	70 - 130	19	35
o-Xylene			0.100	0.1950	*+	mg/Kg		195	70 - 130	21	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*413*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*66*	*S1-*	*70 - 130*

Lab Sample ID: 880-23272-1 MS
Matrix: Solid
Analysis Batch: 43162

Client Sample ID: BG-1, 0.5'
Prep Type: Total/NA
Prep Batch: 43118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U *+	0.0996	0.1165		mg/Kg		117	70 - 130		
Toluene	<0.00202	U *+	0.0996	0.1138		mg/Kg		114	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

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

Lab Sample ID: 880-23272-1 MS
Matrix: Solid
Analysis Batch: 43162

Client Sample ID: BG-1, 0.5'
Prep Type: Total/NA
Prep Batch: 43118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U *+ F1	0.0996	0.1378	F1	mg/Kg		138	70 - 130
m,p-Xylenes	<0.00403	U *+ F1	0.199	0.2736	F1	mg/Kg		137	70 - 130
o-Xylene	<0.00202	U *+ F1	0.0996	0.1402	F1	mg/Kg		141	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*396*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*65*	*S1-*	*70 - 130*

Lab Sample ID: 880-23272-1 MSD
Matrix: Solid
Analysis Batch: 43162

Client Sample ID: BG-1, 0.5'
Prep Type: Total/NA
Prep Batch: 43118

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U *+	0.0996	0.1189		mg/Kg		119	70 - 130	2	35
Toluene	<0.00202	U *+	0.0996	0.1120		mg/Kg		112	70 - 130	2	35
Ethylbenzene	<0.00202	U *+ F1	0.0996	0.1340	F1	mg/Kg		135	70 - 130	3	35
m,p-Xylenes	<0.00403	U *+ F1	0.199	0.2652	F1	mg/Kg		133	70 - 130	3	35
o-Xylene	<0.00202	U *+ F1	0.0996	0.1365	F1	mg/Kg		137	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*358*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*63*	*S1-*	*70 - 130*

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

Lab Sample ID: MB 880-43158/1-A
Matrix: Solid
Analysis Batch: 43110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43158

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		01/04/23 11:55	01/04/23 20:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/04/23 11:55	01/04/23 20:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/23 11:55	01/04/23 20:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*01/04/23 11:55*	*01/04/23 20:37*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*01/04/23 11:55*	*01/04/23 20:37*	*1*

Lab Sample ID: LCS 880-43158/2-A
Matrix: Solid
Analysis Batch: 43110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43158

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	819.5		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	853.8		mg/Kg		85	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

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

Lab Sample ID: LCS 880-43158/2-A
Matrix: Solid
Analysis Batch: 43110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43158

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	87		70 - 130
o-Terphenyl (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-43158/3-A
Matrix: Solid
Analysis Batch: 43110

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43158

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	813.3		mg/Kg		81	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	844.6		mg/Kg		84	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	89		70 - 130

Lab Sample ID: 880-23272-1 MS
Matrix: Solid
Analysis Batch: 43110

Client Sample ID: BG-1, 0.5'
Prep Type: Total/NA
Prep Batch: 43158

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	936.3		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1134		mg/Kg		111	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	103		70 - 130

Lab Sample ID: 880-23272-1 MSD
Matrix: Solid
Analysis Batch: 43110

Client Sample ID: BG-1, 0.5'
Prep Type: Total/NA
Prep Batch: 43158

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	932.2		mg/Kg		90	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1153		mg/Kg		112	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	109		70 - 130
o-Terphenyl (Surr)	106		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43131/1-A
Matrix: Solid
Analysis Batch: 43169

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			01/04/23 12:33	1

Lab Sample ID: LCS 880-43131/2-A
Matrix: Solid
Analysis Batch: 43169

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.5		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-43131/3-A
Matrix: Solid
Analysis Batch: 43169

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	254.7		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

GC VOA

Prep Batch: 43118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23272-1	BG-1, 0.5'	Total/NA	Solid	5035	
880-23272-2	BG-1, 1'	Total/NA	Solid	5035	
880-23272-3	BG-1, 2'	Total/NA	Solid	5035	
880-23272-4	BG-2, 0.5'	Total/NA	Solid	5035	
880-23272-5	BG-2, 1'	Total/NA	Solid	5035	
880-23272-6	BG-2, 2'	Total/NA	Solid	5035	
MB 880-43118/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43118/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43118/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23272-1 MS	BG-1, 0.5'	Total/NA	Solid	5035	
880-23272-1 MSD	BG-1, 0.5'	Total/NA	Solid	5035	

Analysis Batch: 43162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23272-1	BG-1, 0.5'	Total/NA	Solid	8021B	43118
880-23272-2	BG-1, 1'	Total/NA	Solid	8021B	43118
880-23272-3	BG-1, 2'	Total/NA	Solid	8021B	43118
880-23272-4	BG-2, 0.5'	Total/NA	Solid	8021B	43118
880-23272-5	BG-2, 1'	Total/NA	Solid	8021B	43118
880-23272-6	BG-2, 2'	Total/NA	Solid	8021B	43118
MB 880-43118/5-A	Method Blank	Total/NA	Solid	8021B	43118
LCS 880-43118/1-A	Lab Control Sample	Total/NA	Solid	8021B	43118
LCSD 880-43118/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43118
880-23272-1 MS	BG-1, 0.5'	Total/NA	Solid	8021B	43118
880-23272-1 MSD	BG-1, 0.5'	Total/NA	Solid	8021B	43118

Analysis Batch: 43212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23272-1	BG-1, 0.5'	Total/NA	Solid	Total BTEX	
880-23272-2	BG-1, 1'	Total/NA	Solid	Total BTEX	
880-23272-3	BG-1, 2'	Total/NA	Solid	Total BTEX	
880-23272-4	BG-2, 0.5'	Total/NA	Solid	Total BTEX	
880-23272-5	BG-2, 1'	Total/NA	Solid	Total BTEX	
880-23272-6	BG-2, 2'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 43110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23272-1	BG-1, 0.5'	Total/NA	Solid	8015B NM	43158
880-23272-2	BG-1, 1'	Total/NA	Solid	8015B NM	43158
880-23272-3	BG-1, 2'	Total/NA	Solid	8015B NM	43158
880-23272-4	BG-2, 0.5'	Total/NA	Solid	8015B NM	43158
880-23272-5	BG-2, 1'	Total/NA	Solid	8015B NM	43158
880-23272-6	BG-2, 2'	Total/NA	Solid	8015B NM	43158
MB 880-43158/1-A	Method Blank	Total/NA	Solid	8015B NM	43158
LCS 880-43158/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43158
LCSD 880-43158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43158
880-23272-1 MS	BG-1, 0.5'	Total/NA	Solid	8015B NM	43158
880-23272-1 MSD	BG-1, 0.5'	Total/NA	Solid	8015B NM	43158

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

GC Semi VOA

Prep Batch: 43158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23272-1	BG-1, 0.5'	Total/NA	Solid	8015NM Prep	
880-23272-2	BG-1, 1'	Total/NA	Solid	8015NM Prep	
880-23272-3	BG-1, 2'	Total/NA	Solid	8015NM Prep	
880-23272-4	BG-2, 0.5'	Total/NA	Solid	8015NM Prep	
880-23272-5	BG-2, 1'	Total/NA	Solid	8015NM Prep	
880-23272-6	BG-2, 2'	Total/NA	Solid	8015NM Prep	
MB 880-43158/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43158/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23272-1 MS	BG-1, 0.5'	Total/NA	Solid	8015NM Prep	
880-23272-1 MSD	BG-1, 0.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23272-1	BG-1, 0.5'	Total/NA	Solid	8015 NM	
880-23272-2	BG-1, 1'	Total/NA	Solid	8015 NM	
880-23272-3	BG-1, 2'	Total/NA	Solid	8015 NM	
880-23272-4	BG-2, 0.5'	Total/NA	Solid	8015 NM	
880-23272-5	BG-2, 1'	Total/NA	Solid	8015 NM	
880-23272-6	BG-2, 2'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23272-1	BG-1, 0.5'	Soluble	Solid	DI Leach	
880-23272-2	BG-1, 1'	Soluble	Solid	DI Leach	
880-23272-3	BG-1, 2'	Soluble	Solid	DI Leach	
880-23272-4	BG-2, 0.5'	Soluble	Solid	DI Leach	
880-23272-5	BG-2, 1'	Soluble	Solid	DI Leach	
880-23272-6	BG-2, 2'	Soluble	Solid	DI Leach	
MB 880-43131/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43131/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43131/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 43169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23272-1	BG-1, 0.5'	Soluble	Solid	300.0	43131
880-23272-2	BG-1, 1'	Soluble	Solid	300.0	43131
880-23272-3	BG-1, 2'	Soluble	Solid	300.0	43131
880-23272-4	BG-2, 0.5'	Soluble	Solid	300.0	43131
880-23272-5	BG-2, 1'	Soluble	Solid	300.0	43131
880-23272-6	BG-2, 2'	Soluble	Solid	300.0	43131
MB 880-43131/1-A	Method Blank	Soluble	Solid	300.0	43131
LCS 880-43131/2-A	Lab Control Sample	Soluble	Solid	300.0	43131
LCSD 880-43131/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43131

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

Client Sample ID: BG-1, 0.5'
Date Collected: 01/03/23 12:15
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	43118	01/04/23 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43162	01/04/23 17:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43212	01/05/23 10:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43262	01/05/23 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43158	01/04/23 11:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43110	01/04/23 21:40	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	43131	01/04/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			43169	01/04/23 13:10	CH	EET MID

Client Sample ID: BG-1, 1'
Date Collected: 01/03/23 12:17
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43118	01/04/23 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43162	01/04/23 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43212	01/05/23 10:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43262	01/05/23 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43158	01/04/23 11:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43110	01/04/23 22:44	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	43131	01/04/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			43169	01/04/23 13:15	CH	EET MID

Client Sample ID: BG-1, 2'
Date Collected: 01/03/23 12:20
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43118	01/04/23 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43162	01/04/23 18:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43212	01/05/23 10:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43262	01/05/23 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43158	01/04/23 11:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43110	01/04/23 23:06	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43131	01/04/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			43169	01/04/23 13:29	CH	EET MID

Client Sample ID: BG-2, 0.5'
Date Collected: 01/03/23 12:23
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43118	01/04/23 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43162	01/04/23 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43212	01/05/23 10:08	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

Client Sample ID: BG-2, 0.5'
Date Collected: 01/03/23 12:23
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-4
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			43262	01/05/23 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43158	01/04/23 11:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43110	01/04/23 23:27	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43131	01/04/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			43169	01/04/23 13:34	CH	EET MID

Client Sample ID: BG-2, 1'
Date Collected: 01/03/23 12:25
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43118	01/04/23 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43162	01/04/23 18:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43212	01/05/23 10:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43262	01/05/23 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43158	01/04/23 11:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43110	01/04/23 23:48	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43131	01/04/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			43169	01/04/23 13:39	CH	EET MID

Client Sample ID: BG-2, 2'
Date Collected: 01/03/23 12:27
Date Received: 01/04/23 08:26

Lab Sample ID: 880-23272-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43118	01/04/23 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43162	01/04/23 19:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43212	01/05/23 10:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43262	01/05/23 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43158	01/04/23 11:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43110	01/05/23 00:09	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43131	01/04/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			43169	01/04/23 13:43	CH	EET MID

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-23272-1
Project/Site: Limestone 1H SDG: 21-0100-24

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	T104704400-22-25	06-30-23

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: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Limestone 1H

Job ID: 880-23272-1
SDG: 21-0100-24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23272-1	BG-1, 0.5'	Solid	01/03/23 12:15	01/04/23 08:26
880-23272-2	BG-1, 1'	Solid	01/03/23 12:17	01/04/23 08:26
880-23272-3	BG-1, 2'	Solid	01/03/23 12:20	01/04/23 08:26
880-23272-4	BG-2, 0.5'	Solid	01/03/23 12:23	01/04/23 08:26
880-23272-5	BG-2, 1'	Solid	01/03/23 12:25	01/04/23 08:26
880-23272-6	BG-2, 2'	Solid	01/03/23 12:27	01/04/23 08:26

Released to Imaging: 5/12/2023 11:29:26 AM

Received by OCD: 4/10/2023 5:31:08 PM

23272 No. 2442

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 1/4/2023 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Limestone 1H

LAI PROJECT #: 21-0100-04 COLLECTOR: RW

TRRP report? ☐ Yes ☑ No

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

TIME ZONE: Time zone/State: MST/NM

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
B6-1, 0.5'		1/3/23	1215	S	1				X		X			X	X	X														X		202
B6-1, 1'			1217																													
B6-1, 2'			1220																													
B6-2, 0.5'			1223																													
B6-2, 1'			1225																													
B6-2, 2'			1227																													
TOTAL																																

880-23272 Chain of Custody

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
	1/4/2023 0826	
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
LABORATORY: Xenco		

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

LABORATORY USE ONLY:
RECEIVING TEMP: 3.2/2.9 THERM#: IR8 -36
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-23272-1
SDG Number: 21-0100-24

Login Number: 23272
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

Photographic Documentation

Spill area on pad and soil pile used for emergency berm, viewing to the east.

Spill area on pad, viewing to the northeast.

Spill area on pad, viewing to the north.

Spill area on pad, viewing to the north.

Spill area on pad, viewing to the east.

Spill area on pad and in pasture, viewing to the east.

Spill area on pad, viewing to the west.

Spill area on pad, viewing to the southwest.

Spill on pad and in pasture, viewing to the southwest.

Spill area in pasture, viewing to the northwest.

Soil pile used for emergency berm, viewing to the northwest.

Spill area on pad, viewing to the northwest.

Spill area on pad, viewing to the southeast.

Spill area on pad, viewing to the north.

Spill area on pad, viewing to the northwest.

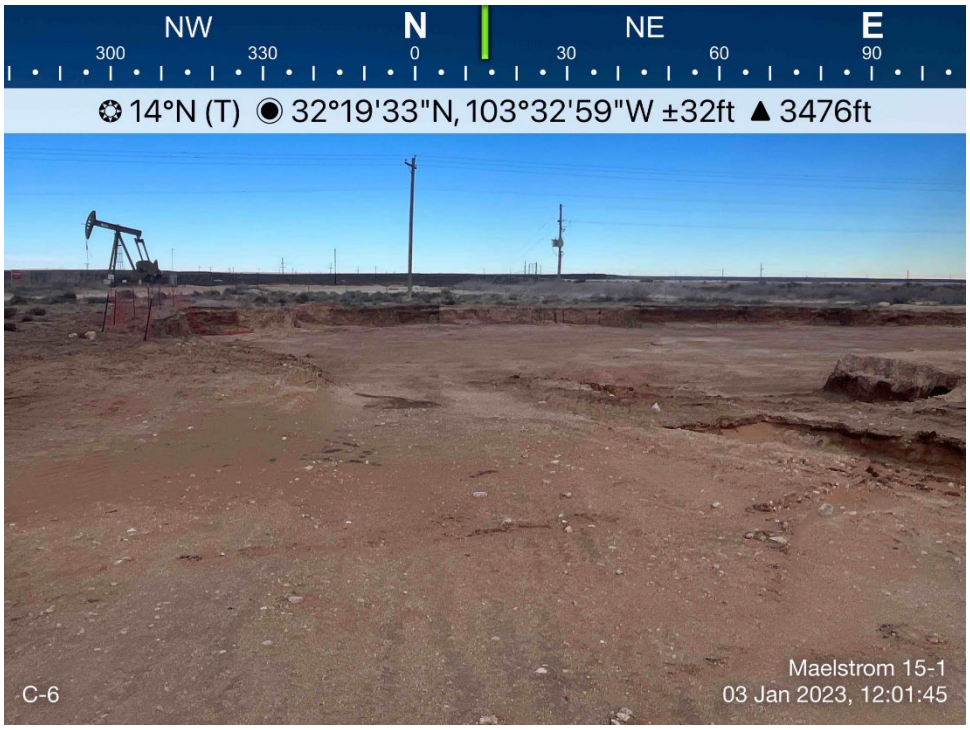
Spill area on pad, viewing to the west.

Spill area on pad, viewing to the east.

Spill area in pasture, viewing to the west.

Spill area on pad and in pasture, viewing to the east.

Excavated area on pad, viewing to the southeast.



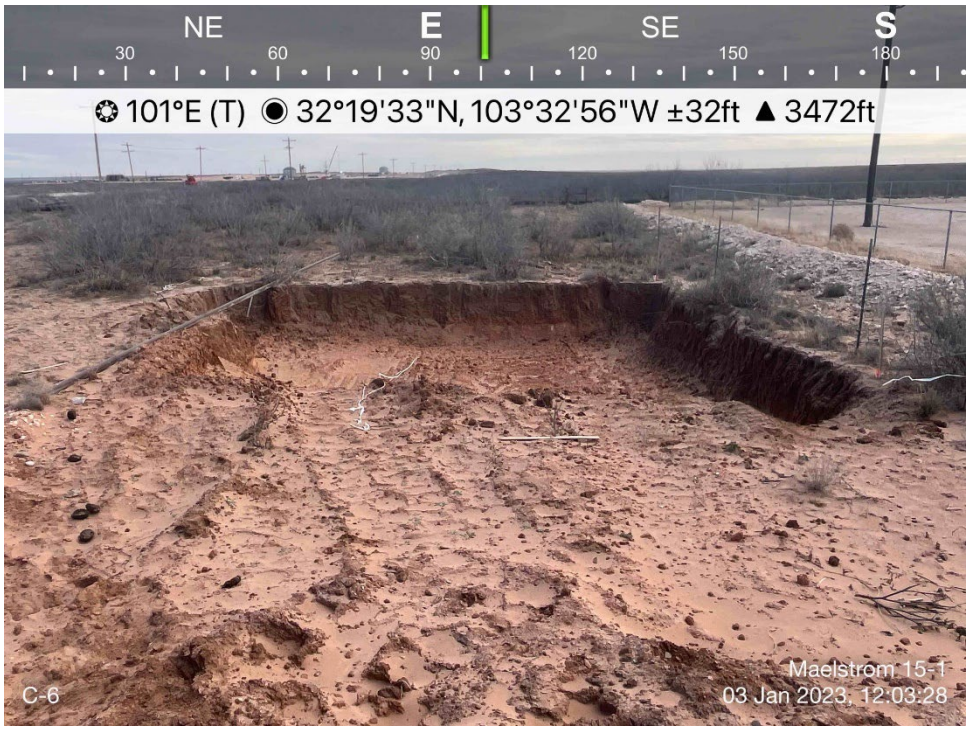
Excavated area on pad, viewing to the north.

Excavated area on pad, viewing to the south.

Excavated area on pad, viewing to the north.

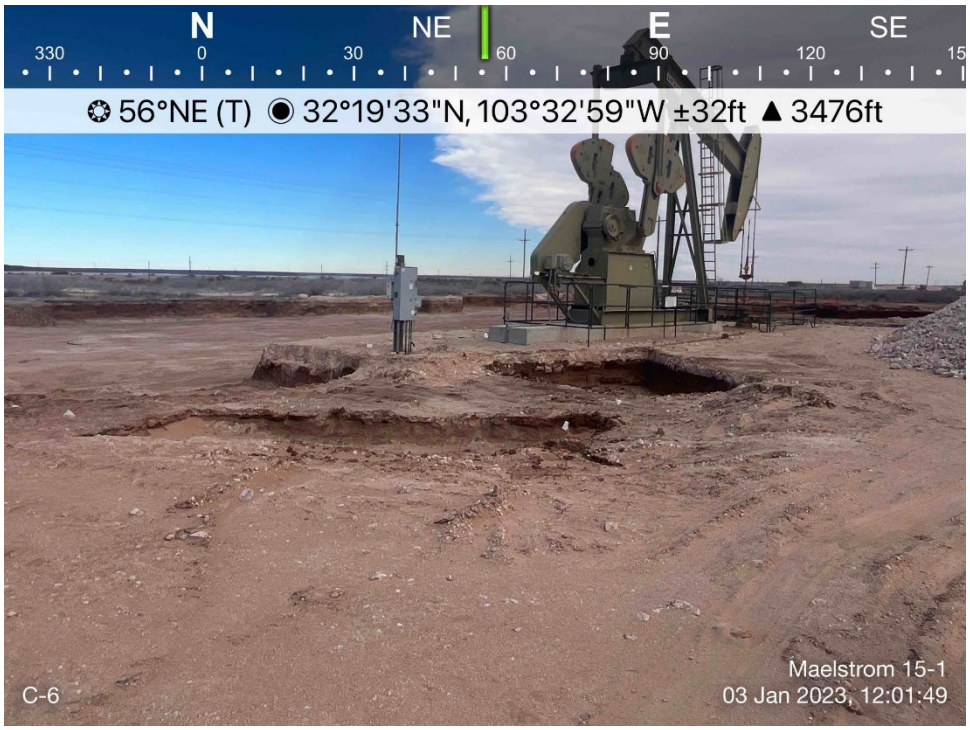
Excavated are on pad, viewing to the northwest.

Excavated area on the pad, viewing to the southwest.



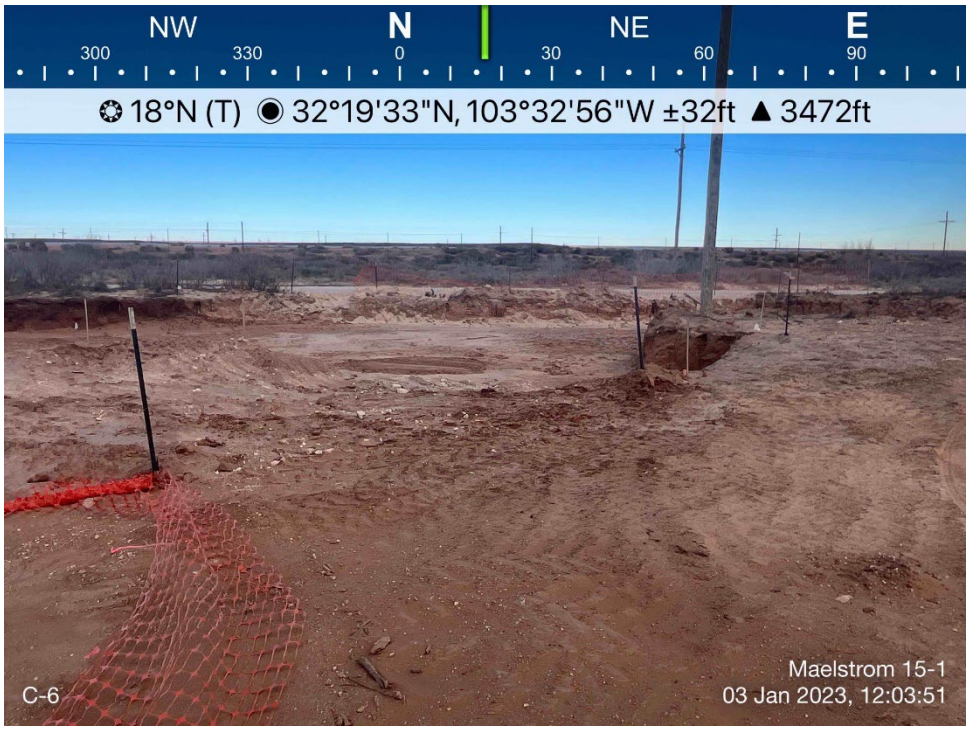
Excavated area in pasture, viewing to the east.

Excavated area on pad, viewing to the southwest.



Excavated area on the pad, viewing to the northeast.

Excavated are on pad and in the pasture, viewing to the southwest.



Excavated are on pad and in the pasture, viewing to the north.

Excavated are on pad near pumping unit, viewing to the east.

Excavated area on pad and in the pasture, viewing to the southeast.

Backfilled excavation on pad, viewing to the north.

Backfilled and seeded area in the pasture, viewing to the east.

Backfilled area on the pad, viewing to the northeast.

Backfilled and seeded area in pasture, viewing to the southeast.

Backfilled and seeded are in the pasture, viewing to the southwest.

Backfilled and seeded are in the pasture, viewing to the southwest.

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 205920

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 205920
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. The OCD will not close a release, where contaminants are left in place, due to close proximity to equipment. The incident will only be closed after all contaminated soil has been remediated to meet OCD Spill Rule Standards.	5/12/2023