State of New Mexico
Oil Conservation Division

Incident ID	nAPP2135052895
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?	>59 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☑ Yes ☐ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2135052895
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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: Timsan Bricker Title: Environmental Coordinator

Signature: Date: 7/18/2023

email: tbricker@selectwater.com Telephone: 575-200-7551

OCD Only

Received by: Shelly Wells Date: 7/19/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2135052895
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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: Timsan Bricker Title: Environmental Coordinator

Signature:  Date: 7/18/2023

Email: tbricker@selectwater.com Telephone: 575-200-7551

OCD Only

Received by: Shelly Wells Date: 7/19/2023

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2135052895
District RP	
Facility ID	
Application ID	

Closure

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

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

☑ 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: Timsan Bricker Title: Environmental Coordinator

Signature: Timsan Bricker Date: 7/18/2023

email: tbricker@selectwater.com Telephone: 575-200-7551

OCD Only

Received by: Shelly Wells Date: 7/19/2023

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: _____

Incident Number
nAPP2135052895
Remediation and Closure Report
Boo Radley Com. 701H, 702H, 703H
Produced Water Release
Eddy County, New Mexico

Latitude: 32.03643
Longitude: -104.08854

LAI Project No. 21-0105-08

July 13, 2023

Prepared for:
Select Water, LLC.
5721 NM 132nd Street
Oklahoma City, Oklahoma 43142

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

Mark J. Larson
Certified Professional Geologist #10490

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Staff Geologist

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1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this delineation and remediation report on behalf of Select Water, LLC. (Select) for submittal to the New Mexico Oil Conservation Division (NMOCD) District II in Artesia, New Mexico, for a produced water release at the Boo Radley Com. 701H, 702H, 703H (Site). The Site is located in Unit P (SE/4, SE/4), Section 16, Township 26 South, Range 28 East in Eddy County, New Mexico. The geodetic position is North 32.03643° and West -104.08854°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on December 8, 2021, and was the result of a twelve (12) inch lay flat line rupturing during water transfer operations. An unknown volume of fluid was released, and no fluid was recovered. The spill covers an area of approximately 13,917 square feet or about 0.32 acres. The initial C-141 was submitted to NMOCD District II on December 9, 2021, and was assigned incident number nAPP2135052895. Appendix A presents the initial C-141.

1.2 Physical Setting

The physical setting is as follows:

- Surface elevation is approximately 3,007 feet above mean sea level (MSL).
- Surface topography gently slopes to the southeast.
- There are no surface water features within 1,000 feet of the Site.
- USGS karst potential data designates the area as high risk.
- Soils in the spill area are designated as the Regan-Upton association, where the Reagan setting consists of 0-60 inches of loam, and the Reagan setting consists of 0-13 inches of gravelly loam underlain by 13-21 inches cemented material (caliche), and 21-60 inches very gravelly loam.
- Surface geology is recognized as the Rustler Formation (Upper Permian) and is composed primarily of siltstone with varying amounts of sandstone, dolomite, and gypsum.
- Groundwater is greater than 59 feet below ground surface (bgs) based on a dry groundwater bore drilled on November 16, 2021, about 0.44 miles southeast of the Site.

Appendix B presents a karst potential map. Appendix D presents the groundwater bore log.

1.3 Remediation Standards

The Following remediation standards are based on closure criteria for soil impacted by a release as presented in Table 1 of 19.15.29 NMAC for groundwater less than or equal to 50 feet bgs, due to high karst potential:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 100 mg/Kg
- Chloride 600 mg/Kg

Furthermore, 19.15.29.13 NMAC (Restoration, Reclamation, and Revegetation) requires the operator to restore the impacted surface area to the condition prior to the release, or to its final land use.

2.0 DELINEATON

The release was delineated between December 20, 2021, and May 18, 2022. A delineation report titled "Delineation Report and Remediation Plan, Boo Radley Com. 701H, 702H, 703H, Produced Water Release", was approved by the NMOCD on July 12, 2022. The report recommended the following remedial actions:

- Excavate about 1,905 cubic yards of soil from an area of approximately 14,917 square feet, at depths varying between one (1) and ten (10) feet bgs, including:
  - 1,980 square feet from the area encompassing S-5 to a depth of 1-foot bgs.
  - 1,876 square feet from the area encompassing PB-3 to a depth of 1.5 feet bgs.
  - 2,710 square feet from the area encompassing PB-5 to depth of 1.5 feet bgs.
  - 4,813 square feet encompassing PB-6 through PB-8, and S-8 and S-9, to a depth of 1.5 feet bgs.
  - 995 square feet encompassing S-1 to a depth of about 10 feet bgs..
  - 2,543 square feet from the area encompassing S-2 and PB-4 to a depth of 10 feet bgs.
- Collect 5-point confirmation samples from the bottom and sidewalls of the excavation at about every 200 square feet.
- Analyze confirmation soil samples for BTEX, TPH, and chloride.
- Backfill excavation with clean topsoil to surface level, assuming samples are below NMOCD closure criteria.
- Seed the backfilled areas with BLM mix #2.
- Prepare closure report for submission to the NMOCD.

A variance to install a 20-mil polyethylene liner in the bottom of the excavation encompassing locations S-1, S-2, and PB-3 was requested In accordance with 19.29.14(A) NMAC. NMOCD approved the variance on August 29, 2022. Following the collection and analysis of the confirmation soil samples the excavations will be backfilled with soil (caliche), confirmed by laboratory analysis of BTEX, TPH to be non-waste containing with chloride less than 600 mg/Kg, to approximately seven (7) feet bgs where the 20-mil thickness liners will be placed. The polyethylene liner coupled with approximately three (3) feet of clean soil beneath and seven (7) feet above the liner will be equal to or better than compacted native soil for the protection of fresh water, public health and the environment and also be below the expected excavation depth for pipelines. The corners of the excavations and liners will be documented by global positioning system (GPS) coordinates.

Table 1 presents the delineation soil sample analytical data summary. Figure 2 presents an aerial map with delineation soil sample locations. Appendix B presents NMOCD correspondence.

3.0 REMEDIATION

Between August 23, 2022, and April 24, 2023, Apeck Construction LLC (Apeck), under supervision of LAI, excavated soil from the release area specified in the remediation plan. The release area was subdivided into Spill Area A, Spill Area B, and Spill Area C. Excavated soil was stockpiled on a polyethylene liner on the adjacent production pad. Approximately 14,000 cubic yards of soil were hauled to the R360 Red Bluff facility in Orla, Texas.

Week 1: November 17-18, 2022

On November 17 and 18, 2022, LAI personnel collected 79 confirmation soil samples, including 57 bottom samples (C-1 through C-57) and 22 sidewall samples (SW-1 through SW-22). The samples were delivered under chain-of-custody and preservation to Permian Basin Environmental Lab (PBEL) in Midland, Texas. The samples were analyzed for BTEX, TPH, and chloride by EPA SW-846 Method 8021B, Method 8015M, and EPA Method 300, respectively. PBEL reported that all samples were below NMOCD closure criteria for benzene (10 mg/Kg), BTEX (50 mg/Kg), and TPH (100 mg/Kg). Chloride was above NMOCD closure limit of 600 mg/Kg in the following samples:

Sample ID	Depth (ft)	Cl^- (mg/Kg)	Sample ID	Depth (ft	Cl^- (mg/Kg	Sample ID	Depth (ft)	Cl^- (mg/Kg)
C-6	1.5	1,570	C-40	1	1,360	SW-03a	0 - 10	1,630
C-7	1.5	1,430	C-41	1.5	4,870	SW-04a	0 - 10	1,410
C-8	1.5	960	C-42	1.5	4,110	SW-05a	0 - 10	2,800
C-9	1.5	1,230	C-43	1.5	6,680	SW-06	0 - 10	1,680
C-10	1.5	1,690	C-44	1.5	4,960	SW-08a	0 - 1.5	2,580
C-13	1.5	735	C-45	1.5	4,110	SW-09	0 - 10	1,740
C-26	1.5	1,750	C-46	1.5	1,870	SW-10	0 - 10	1,970
C-27	1.5	2,270	C-47	1.5	4,110	SW-11	0 - 10	693
C-28	1.5	3,400	C-48	1.5	3,990	SW-13	0 - 10	1,610
C-29	1.5	1,700	C-49	1.5	4,660	SW-14	0 - 10	2,910
C-30	1.5	1,960	C-50	1.5	1,440	SW-15	0 - 10	1,120
C-31	1.5	3,070	C--51	1.5	803	SW-16	0 - 10	2,770
C-32	1.5	2,190	C-52	1.5	1,500	SW-17	0 - 10	3,290
C-33	1.5	1,240	C-53	1.5	3,560	SW-18	0 - 10	3,730
C-34	1.5	1,490	C-54	1.5	6,460	SW-19a	0 - 1.5	2,770
C-35	1.5	2,500	C-55	1.5	2,600	SW-20a	0 - 1.5	9,010
C-36	1.5	1,700	C-56	1.5	1,080	SW-21a	0 - 1	6,600
C-38	1	5,210	SW-01	0 - 10	1,980	SW-22a	0 - 1.5	1,100
C-39	1	3,820	SW-02	0 - 10	1,890	--	--	--

Week 2: December 5, 2022

On December 5, 2023, LAI personnel collected twelve (12) confirmation soil samples, including seven bottom samples (C-58 through C-64) and four sidewall samples (SW-23 through SW-26). The samples were delivered under chain-of-custody and preservation to Eurofins-Xenco (Xenco) in Carlsbad, New Mexico. Xenco reported that all samples were below closure criteria for benzine, BTEX, and TPH. Chloride was above closure criteria in C-58 (2,220 mg/Kg), C-59 (1,750 mg/Kg), C-60 (646 mg/Kg), C-61 (897 mg/Kg), C-62 (1,450 mg/Kg), C-63 (986 mg/Kg), C-64 (1,350 mg/Kg), SW-24a (1,630 mg/Kg), and SW-25a (5,030 mg/Kg).

Week 3: January 2-6, 2023

Between January 3 and 6, 2023, LAI personnel collected thirteen (13) composite soil samples from locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled locations included: C-13, C-29, C-30, C-36, C-38, C-39, C-40, C-41, C-42, C-50, C-51, C-52, and C-56. Xenco analyzed the samples and reported that benzene, BTEX, and TPH were below closure criteria. Chloride was reported above NMOCD closure criteria in C-30 (1,370 mg/Kg), C-39 (622 mg/Kg), and C-41 (1,060 mg/Kg).

Week 4: January 9-13, 2023

On January 11 and 12, 2023, LAI personnel collected fifteen (15) composite soil samples from locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled locations included: C-6, C-7, C-8, C-9, C-10, C-26, C-33, C-34, C-43, C-44, C-45, C-46, C-47, C-49, and C-54. Xenco analyzed the samples and that reported benzene, BTEX, and TPH were below NMOCD closure criteria. Chloride was reported above closure criteria in C-43 (674 mg/Kg), C-44 (825 mg/Kg), and C-46 (614 mg/Kg).

Week 5: January 16-20, 2023

Between January 17 and 19, 2023, LAI personnel collected seventeen (17) confirmation soil samples from locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled locations included: C-27, C-28, C-30, C-32, C-35, C-39, C-41, C-48, C-53, C-55, C-58, C-59, C-60, C-61, C-62, C-63, and C-64. Xenco analyzed the samples and reported that benzene, BTEX, and TPH were below closure criteria. Chloride was reported above closure criteria in C-27 (762 mg/Kg), C-35 (625 mg/Kg), and C-61 (1,140 mg/Kg).

Week 6: January 23-27, 2023

On January 23, 2023, LAI personnel collected two (2) confirmation samples from locations that were further excavated due to previous laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled locations included: SW-24b and SW-25a. Xenco analyzed the samples and reported that benzene, BTEX, TPH, and chloride were below closure criteria.

Week 7: February 6-10, 2023

On February 8 and 9, 2023, LAI personnel collected thirteen (13) composite soil samples from locations that were further excavated due to laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled locations included: C-27, C-31, C-35, C-43, C-44, C-46, C-61, C-SW-19a, SW-19b, SW-21a, SW-21b, SW-24a, and SW-24b. Xenco analyzed the samples and reported that benzene, BTEX, TPH, and chloride were below closure criteria.

Week 8: February 13-17, 2023

Between February 15 and 17, 2023, LAI personnel collected twelve (12) composite soil samples from locations that were further excavated due to laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled locations included: SW-11, SW-12, SW-13, SW-14, SW-15, SW-16, SW-17, SW-20a, SW-20b, SW-22a, SW-22b, and SW-22c. Xenco analyzed the samples and reported that benzene, BTEX, and chloride were below closure criteria. TPH was reported above closure criteria in SW-22c (891 mg/Kg).

Week 9: February 20-24, 2023

Between February 21 and 24, 2023, LAI personnel collected thirteen (13) composite soil samples, including nine (9) initial confirmation samples (C-66 through C-76) and four (4) samples from locations that were further excavated due to laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled locations included: SW-5a, SW-6, SW-9, and SW-10. Xenco analyzed the samples and reported that benzene, BTEX, and TPH were below closure criteria. Chloride was reported above closure criteria in SW-5a (1,440 mg/Kg). Sample IDs C-72 and C-74 were not analyzed.

Week 10: February 27-March 3, 2023

Between February 28 and March 2, 2023, LAI personnel collected nineteen (19) composite soil samples, including fifteen (15) initial confirmation samples (C-77 through C-91) and four (4) samples from locations that were further excavated due to laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled locations included: SW-1, SW-8a, SW-8b, SW-8c. Xenco analyzed the samples and reported that samples located outside of the variance area were below NMOCD closure criteria for benzene, BTEX, and TPH. Chloride was reported above closure criteria in C-77 (1,540 mg/Kg) and SW-01 (1,070 mg/Kg).

Week 11: March 13-17, 2023

Between March 14 and 15, 2023, LAI personnel collected eleven (11) composite soil samples from locations that were further excavated due to laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled locations included: SW-11, SW-12, SW-13, SW-14, SW-15, SW-16, SW-17, SW-20a, SW-20b, SW-22a, SW-22b, and SW-22c. Xenco analyzed the samples and reported that benzene, BTEX, and TPH were below closure criteria. Chloride was reported above closure criteria in the following samples:

Sample ID	Depth (feet)	Chloride (mg/Kg)
SW-2	0 - 10	782
SW-3a	0 - 10	763
SW-3b	0 - 10	709
SW-3c	0 - 10	700
SW-4a	0 - 10	993
SW-4b	0 - 10	746
SW-5a	0 - 10	633
SW-5b	0 - 10	941
SW-5c	0 - 10	755
SW-10	0 - 10	1,120
SW-18	0 - 10	782
SW-22c	0 - 4	763

Week 12: March 20-24, 2023

On March 20 and March 21, 2023, LAI personnel collected forty-three (43) composite soil samples, including forty (40) initial confirmation samples (C-92 through C-131) and three (3) samples from locations that were further excavated due to laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled locations included: C-77, SW-10, and SW-18. Xenco analyzed the samples and reported that samples located outside of the variance area were below NMOCD closure criteria for benzene, BTEX, TPH, and chloride.

Week 13: March 27-31, 2023

On March 28 and 29, 2023, LAI personnel collected twelve (12) composite samples, including two (2) initial confirmation samples (C-132 and C-133) and ten (10) samples from locations that were further excavated due to laboratory analysis showing chloride concentrations above NMOCD closure criteria. The resampled locations included: SW-2, SW-3a, SW-3b, SW-3c, SW-4a, SW-4b, SW-5a, SW-5b, SW-5c, and SW-22c. Xenco analyzed the samples and reported that samples located outside of the variance area were below NMOCD closure criteria for benzene, BTEX, TPH, and chloride.

Week 14: April 24-28, 2023

On April 24, 2023, LAI personnel collected one (1) composite sample (SW-1) from a location that was further excavated due to laboratory analysis showing chloride concentrations above NMOCD closure criteria. Xenco analyzed the sample and reported that benzene, BTEX, TPH, and chloride were below closure criteria.

Laboratory analysis demonstrates that benzene, BTEX, TPH, and chloride were remediated below the NMOCD closure criteria of 10 mg/Kg, 50 mg/Kg, 100 mg/Kg, and 600 mg/Kg (Table 1, 19.15.29 NMAC) in all confirmation soil samples located outside of the variance area. Figure 3 presents the excavation areas and confirmation sample locations in spill areas A, B, and C. Table 2 presents the confirmation composite sample laboratory analytical data summary. Appendix E presents the laboratory reports.

4.0 RECLAMATION

On March 3, 2023, LAI personnel collected twenty-two (22) composite samples of backfill material, including nine (9) caliche samples (BF-1 through BF-10) and twelve (12) topsoil samples (BF-11 through BF-22) from a borrow pit located in Unit P, Section 16, Township 26 South, Range 28 East, in Eddy County, New Mexico. The geodetic position for the pit is 32°02'11.1798" North and 104°05'18.7489" West. Xenco analyzed the samples and reported that benzene, BTEX, and TPH were below analytical method reporting limits. Chloride was reported above 600 mg/Kg in samples BF-8 (691 mg/Kg) and BF-17 (927 mg/Kg). Backfill material was not obtained from the areas encompassing sample locations BF-8 and BF-17. Table 3 presents the analytical data of the backfill material. Appendix E presents the laboratory reports.

Between May 15 and June 23, 2023, the excavation was backfilled with topsoil and caliche from the borrow pit. Caliche was used to backfill the excavation onsite and topsoil was used to backfill excavations located in the pasture. The variance area was backfilled between about seven (7) and ten (10) feet bgs with non-rock bearing native topsoil. The 20-mil polyethylene liner, approximately 13,000 square foot, was positioned at about seven (7) feet bgs and backfilled to surface with native topsoil. Additional topsoil was used to recontour offsite areas to resemble previous surface conditions.

On June 26, 2023, LAI personnel seeded the pasture area with BLM Mix #3. Backfill notification was provided to the NMOCD on May 8 and June 6, 2023. Table 2 presents the backfill material analytical data summary. Appendix B presents NMOCD communications. Appendix F presents photographic documentation.

5.0 CLOSURE REQUEST

Select requests closure for nAPP2135052895.

Tables

Table 1
Soil Sample Analytical Data Summary
Select Energy - Boo Radley
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
S-1	0.5	12/20/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**4,990**
	1	12/20/2021	In-Situ	<0.00199	0.0153	<50.0	<50.0	<50.0	<50.0	**2,230**
	1	01/24/2022	In-Situ	<0.00200	<0.0401	<49.9	<49.9	<49.9	<49.9	**1,940**
	3	01/24/2022	In-Situ	<0.00201	<0.0402	<50.0	<50.0	<50.0	<50.0	**3,260**
	5	01/24/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**1,180**
	9	01/24/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**2,530**
	12	01/24/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**1,010**
	15	05/18/2022	In-Situ	--	--	--	--	--	- -	**720**
	20	05/18/2022	In-Situ	--	--	--	--	--	- -	**1,290**
	25	05/18/2022	In-Situ	--	--	--	--	--	- -	**1,920**
	30	05/18/2022	In-Situ	--	--	--	--	--	- -	**1,610**
	35	05/18/2022	In-Situ	--	--	--	--	--	- -	597
	40	05/18/2022	In-Situ	--	--	--	--	--	- -	498
S-2	0.5	12/20/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**4,830**
	1	12/20/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**966**
	1	01/26/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**3,190**
	3	01/24/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**2,100**
	5	01/24/2022	In-Situ	<0.00201	<0.0402	<49.9	<49.9	<49.9	<49.9	**2,550**
	9	01/24/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**10,200**
	10	05/17/2022	In-Situ	--	--	--	--	--	--	219
	15	05/17/2022	In-Situ	--	--	--	--	--	--	**908**
	20	05/17/2022	In-Situ	--	--	--	--	--	--	**650**
	25	05/17/2022	In-Situ	--	--	--	--	--	--	500

Table 1
Soil Sample Analytical Data Summary
Select Energy - Boo Radley
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	30	05/17/2022	In-Situ	--	--	--	--	--	--	389
S-3	0.5	12/20/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**3,460**
	1	12/20/2021	In-Situ	<0.00200	<0.00401	<49.9	85.9	<49.9	85.9	232
S-4	0.5	12/20/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	317
	1	12/20/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	281
S-5	0.5	12/20/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**5,220**
	1	12/20/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	204
S-6	0.5	12/20/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	33.5
	1	12/20/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	17.2
S-7	0.5	12/20/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**3,900**
	1	12/20/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**3,440**
	1	01/26/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	390
	3	01/26/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	520
	5	01/26/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	37.5
	10	01/26/2022	In-Situ	<0.00200	<0.0400	<50.0	<50.0	<50.0	<50.0	12.5
S-8	0.5	12/20/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**3,770**
	1	12/20/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**2,570**
	1	01/27/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	48.8
	3	01/27/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	28.1

Table 1
Soil Sample Analytical Data Summary
Select Energy - Boo Radley
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	5	01/27/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	23.6
	10	01/27/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	21.4
S-9	0.5	12/20/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**5,930**
	1	12/20/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**3,580**
	1	01/27/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**13,500**
	3	01/27/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	281
	5	01/27/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	128
	10	01/27/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	26.2
S-10	0.5	12/20/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	25.5
	1	12/20/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	29.3
S-11	0.5	12/20/2021	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	21.3
	1	12/20/2021	In-Situ	0.00443	0.00859	<50.0	<50.0	<50.0	<50.0	<4.95
S-12	0.5	12/20/2021	In-Situ	0.00199	0.0127	<49.9	<49.9	<49.9	<49.9	<5.04
	1	12/20/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<4.99
S-13	0.5	12/20/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	15.0
	1	12/20/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	6.35
S-14	0.5	12/20/2021	In-Situ	<0.00201	0.00745	<50.0	<50.0	<50.0	<50.0	9.26
	1	12/20/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	7.15

Table 1
Soil Sample Analytical Data Summary
Select Energy - Boo Radley
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
S-15	0.5	12/20/2021	In-Situ	<0.00199	0.0119	<49.9	<49.9	<49.9	<49.9	78.2
	1	12/20/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	43.9
S-16	0.5	12/20/2021	In-Situ	0.00278	0.0059	<49.9	<49.9	<49.9	<49.9	<4.98
	1	12/20/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<4.97
PB-1	1	01/24/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	21.9
	3	01/24/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	23.0
	5	01/24/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	13.9
	9	01/24/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	32.5
PB-2	1	01/24/2022	In-Situ	<0.00199	<0.00397	<50.0	<50.0	<50.0	<50.0	59.8
	3	01/24/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	564
	5	01/24/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	14.2
	8	01/24/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.8
PB-3	1	01/24/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**1,920**
	3	01/24/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	210
	5	01/24/2022	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	235
	9	01/24/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	431
PB-4	1	01/26/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	211
	3	01/26/2022	In-Situ	<0.00200	<0.00402	<50.0	<50.0	<50.0	<50.0	48.5

Table 1
Soil Sample Analytical Data Summary
Select Energy - Boo Radley
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	5	01/26/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	**747**
	10	01/26/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**5,570**
	15	05/18/2022	In-Situ	--	--	--	--	--	--	421
	20	05/18/2022	In-Situ	--	--	--	--	--	--	356
PB-5	1	01/26/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**801**
	3	01/26/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	82.7
	5	01/26/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	8.55
	10	01/26/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	10.5
PB-6	1	01/26/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	**6,640**
	3	01/26/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	59.6
	5	01/26/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	224
	10	01/26/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	470
PB-7	1	01/26/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**4,480**
	3	01/26/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	51.5
	5	01/26/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	30.1
	10	01/26/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	80.3
PB-8	1	01/26/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**16,700**
	3	01/26/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	16.9
	5	01/26/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	80.4
	10	01/26/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	6.70

Table 1
Soil Sample Analytical Data Summary
Select Energy - Boo Radley
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
PB-9	1	01/27/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	16.4
	3	01/27/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	10.8
	5	01/27/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	5.55
	10	01/27/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<5.02
PB-10	1	01/27/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	11.3
	3	01/27/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<5.00
	5	01/27/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	244
	10	01/27/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	76.7

Notes:

Analysis performed by Eurofins-Xenco Laboratory (Xenco) in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride)

bgs: below ground surface (in feet)

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

<: analyte concentration less than analytical reporting limit

Bold and Highlighted exceeds NMOCD closure/remediation limits

Table 2
Confirmation Soil Sample Analytical Data Summary
Boo Radley Com 701H, 702H, 703H
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

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*	*600*
C-1	Bottom	10	11/17/2022	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	2,200
C-2	Bottom	10	11/17/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	1,460
C-3	Bottom	10	11/17/2022	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	2,250
C-4	Bottom	10	11/17/2022	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	1,510
C-5	Bottom	10	11/17/2022	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	2,120
C-6	Bottom	1.5	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**1,570**
C-6	Bottom	10	01/12/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	2,870
C-7	Bottom	1.5	11/17/2022	Excavated	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	**1,430**
C-7	Bottom	10	01/12/2023	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	1,910
C-8	Bottom	1.5	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**960**
C-8	Bottom	10	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,790
C-9	Bottom	1.5	11/17/2022	Excavated	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**1,230**
C-9	Bottom	10	01/12/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,730
C-10	Bottom	1.5	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**1,690**
C-10	Bottom	10	01/12/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	1,950
C-11	Bottom	1.5	11/17/2022	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	419
C-12	Bottom	1.5	11/17/2022	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	573
C-13	Bottom	1.5	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**735**
C-13	Bottom	2.5	01/03/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	386
C-14	Bottom	10	11/17/2022	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	791
C-15	Bottom	10	11/17/2022	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	1,510
C-16	Bottom	10	11/17/2022	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	1,700
C-17	Bottom	10	11/17/2022	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	1,890
C-18	Bottom	10	11/17/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	1,590
C-19	Bottom	10	11/17/2022	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	993
C-20	Bottom	10	11/17/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	625
C-21	Bottom	10	11/17/2022	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	1,000
C-22	Bottom	10	11/17/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	1,380

Table 2
Confirmation Soil Sample Analytical Data Summary
Boo Radley Com 701H, 702H, 703H
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

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*	*600*
C-23	Bottom	10	11/17/2022	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	2,550
C-24	Bottom	10	11/17/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	1,750
C-25	Bottom	10	11/17/2022	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	1,130
C-26	Bottom	1.5	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**1,750**
C-26	Bottom	2.5	01/12/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	72.7
C-27	Bottom	1.5	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**2,270**
C-27	Bottom	3.5	01/17/2023	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**762**
C-27	Bottom	4.5	02/08/2023	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	10.4
C-28	Bottom	1.5	11/17/2022	Excavated	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	**3,400**
C-28	Bottom	3.5	01/17/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	126
C-29	Bottom	1.5	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**1,700**
C-29	Bottom	2.5	01/06/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	177
C-30	Bottom	1.5	11/17/2022	Excavated	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	**1,960**
C-30	Bottom	2.5	01/06/2023	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**1,370**
C-30	Bottom	3.5	01/19/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	15.4
C-31	Bottom	1.5	11/17/2022	Excavated	<0.00199	<0.00398	<25.5	<25.5	<25.5	<25.5	**3,070**
C-31	Bottom	4.5	02/08/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	193
C-32	Bottom	1.5	11/17/2022	Excavated	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	**2,190**
C-32	Bottom	3.5	01/17/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	423
C-33	Bottom	1.5	11/17/2022	Excavated	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	**1,240**
C-33	Bottom	2.5	01/12/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	402
C-34	Bottom	1.5	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**1,490**
C-34	Bottom	2.5	01/12/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	61.7
C-35	Bottom	1.5	11/17/2022	Excavated	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**2,500**
C-35	Bottom	3.5	01/17/2023	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**625**
C-35	Bottom	4.5	02/08/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	200
C-36	Bottom	1.5	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**1,700**
C-36	Bottom	2.5	01/06/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	460

Table 2
Confirmation Soil Sample Analytical Data Summary
Boo Radley Com 701H, 702H, 703H
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

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*	*600*
C-37	Bottom	1.5	11/17/2022	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	193
C-38	Bottom	1	11/18/2022	Excavated	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	**5,210**
C-38	Bottom	2.5	01/04/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	67.3
C-39	Bottom	1	11/18/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**3,820**
C-39	Bottom	2.5	01/04/2023	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**622**
C-39	Bottom	3.5	01/17/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	357
C-40	Bottom	1	11/18/2022	Excavated	0.00130	0.00604	<25.5	<25.5	<25.5	<25.5	**1,360**
C-40	Bottom	2.5	01/06/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	74.3
C-41	Bottom	1.5	11/18/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**4,870**
C-41	Bottom	2.5	01/04/2023	Excavated	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**1,060**
C-41	Bottom	3.5	01/17/2023	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	66.7
C-42	Bottom	1.5	11/18/2022	Excavated	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**4,110**
C-42	Bottom	2.5	01/04/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	88.2
C-43	Bottom	1.5	11/18/2022	Excavated	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	**6,680**
C-43	Bottom	3.5	01/11/2023	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**674**
C-43	Bottom	4.5	02/08/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	147
C-44	Bottom	1.5	11/18/2022	Excavated	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**4,960**
C-44	Bottom	3.5	01/11/2023	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**825**
C-44	Bottom	5.5	02/09/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	6.78
C-45	Bottom	1.5	11/18/2022	Excavated	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	**4,110**
C-45	Bottom	3.5	01/11/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	139
C-46	Bottom	1.5	11/18/2022	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**1,870**
C-46	Bottom	3.5	01/11/2023	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**614**
C-46	Bottom	5.5	02/09/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	7.42
C-47	Bottom	1.5	11/18/2022	Excavated	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	**4,110**
C-47	Bottom	3.5	01/11/2023	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	480
C-48	Bottom	1.5	11/18/2022	Excavated	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	**3,990**
C-48	Bottom	6.5	01/18/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	192

Table 2
Confirmation Soil Sample Analytical Data Summary
Boo Radley Com 701H, 702H, 703H
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

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*	*600*
C-49	Bottom	1.5	11/18/2022	Excavated	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	**4,660**
C-49	Bottom	4.5	01/12/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	83.7
C-50	Bottom	1.5	11/18/2022	Excavated	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**1,440**
C-50	Bottom	2.5	01/04/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	292
C-51	Bottom	1.5	11/18/2022	Excavated	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**803**
C-51	Bottom	2.5	01/04/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	72.7
C-52	Bottom	1.5	11/18/2022	Excavated	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	**1,500**
C-52	Bottom	2.5	01/04/2023	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	112
C-53	Bottom	1.5	11/18/2022	Excavated	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	**3,560**
C-53	Bottom	6.5	01/18/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	77.1
C-54	Bottom	1.5	11/18/2022	Excavated	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	**6,460**
C-54	Bottom	3.5	01/11/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	564
C-55	Bottom	1.5	11/18/2022	Excavated	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	**2,600**
C-55	Bottom	7.5	01/19/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	329
C-56	Bottom	1.5	11/18/2022	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**1,080**
C-56	Bottom	2.5	01/04/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	51.6
C-57	Bottom	1.5	11/18/2022	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	365
C-58	Bottom	1.5	12/05/2022	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**2,220**
C-58	Bottom	4.5	01/20/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	5.31
C-59	Bottom	1.5	12/05/2022	Excavated	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	**1,750**
C-59	Bottom	4.5	01/20/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	116
C-60	Bottom	1.5	12/05/2022	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**646.0**
C-60	Bottom	4.5	01/20/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	19.8
C-61	Bottom	1.5	12/05/2022	Excavated	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	**897**
C-61	Bottom	4.5	01/20/2023	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**1,140**
C-61	Bottom	5.5	02/09/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	307
C-62	Bottom	1.5	12/05/2022	Excavated	<0.00200	<0.00399	51	<50.0	<50.0	51	**1,450**
C-62	Bottom	4.5	01/20/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	17.3

Table 2
Confirmation Soil Sample Analytical Data Summary
Boo Radley Com 701H, 702H, 703H
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

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*	*600*
C-63	Bottom	1.5	12/05/2022	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**986**
C-63	Bottom	4.5	01/20/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	6.24
C-64	Bottom	1.5	12/05/2022	Excavated	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	**1,350**
C-64	Bottom	3.5	01/18/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	267
C-65	Bottom	1.5	12/05/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	246
C-66	Bottom	3.5	02/22/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	142
C-67	Bottom	3.5	02/22/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	131
C-68	Bottom	3.5	02/22/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	230
C-69	Bottom	3.5	02/22/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	349
C-70	Bottom	3.5	02/22/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	49.0
C-71	Bottom	4.5	02/23/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	57.7
C-73	Bottom	4.5	02/23/2023	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	138
C-75	Bottom	4.5	02/23/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	471
C-76	Bottom	4.5	02/23/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	135
C-77	Bottom	2	03/01/2023	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**1,540**
C-77	Bottom	6.5	03/21/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	137
C-78	Bottom	1.5	02/28/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	53.0
C-79	Bottom	2.5	02/28/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	68.7
C-80	Bottom	2.5	02/28/2023	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	60.2
C-81	Bottom	3.5	02/28/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	79.9
C-82	Bottom	3	03/02/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	114
C-83	Bottom	1.5	02/28/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	44.7
C-84	Bottom	1.5	02/28/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	64.6
C-85	Bottom	4	03/02/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	380
C-86	Bottom	3.5	02/28/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	187
C-87	Bottom	1.5	02/28/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	49.9
C-88	Bottom	3.5	02/28/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	172
C-89	Bottom	1.5	02/28/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	55.6

Table 2
Confirmation Soil Sample Analytical Data Summary
Boo Radley Com 701H, 702H, 703H
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

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*	*600*
C-90	Bottom	2.5	02/28/2023	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	164
C-91	Bottom	1.5	02/28/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	53.2
C-92	Bottom	10	03/20/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	3,530
C-93	Bottom	10	03/20/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	3,520
C-94	Bottom	10	03/20/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	3,960
C-95	Bottom	10	03/20/2023	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	3,560
C-96	Bottom	10	03/20/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	4,020
C-97	Bottom	10	03/20/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	2,640
C-98	Bottom	10	03/20/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	3,050
C-99	Bottom	10	03/20/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	4,830
C-100	Bottom	10	03/20/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	5,890
C-101	Bottom	10	03/20/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	6,240
C-102	Bottom	10	03/20/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	6,780
C-103	Bottom	10	03/20/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	4,600
C-104	Bottom	10	03/20/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,990
C-105	Bottom	10	03/20/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	3,410
C-106	Bottom	10	03/20/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	3,930
C-107	Bottom	10	03/20/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	1,850
C-108	Bottom	10	03/20/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	6,260
C-109	Bottom	10	03/20/2023	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	4,600
C-110	Bottom	10	03/20/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	4,910
C-111	Bottom	10	03/20/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	5,000
C-112	Bottom	10	03/20/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,510
C-113	Bottom	10	03/20/2023	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	1,540
C-114	Bottom	10	03/20/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,780
C-115	Bottom	10	03/20/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,520
C-116	Bottom	10	03/21/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,300
C-117	Bottom	10	03/21/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	923

Table 2
Confirmation Soil Sample Analytical Data Summary
Boo Radley Com 701H, 702H, 703H
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

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*	*600*
C-118	Bottom	10	03/21/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,450
C-119	Bottom	10	03/21/2023	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	1,860
C-120	Bottom	10	03/21/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	1,220
C-121	Bottom	10	03/21/2023	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	2,000
C-122	Bottom	10	03/21/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	2,170
C-123	Bottom	10	03/21/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	2,070
C-124	Bottom	10	03/21/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,700
C-125	Bottom	10	03/21/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	1,790
C-126	Bottom	10	03/21/2023	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	1,160
C-127	Bottom	10	03/21/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,010
C-128	Bottom	10	03/21/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,100
C-129	Bottom	10	03/21/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,130
C-130	Bottom	10	03/21/2023	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	822
C-131	Bottom	10	03/21/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	427
C-132	Bottom	10	03/29/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	429
C-133	Bottom	10	03/29/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,530
SW-01	Sidewall	0 - 10	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**1,980**
SW-01	Sidewall	0 - 10	04/23/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	300
SW-02	Sidewall	0 - 10	11/17/2022	Excavated	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**1,890**
SW-02	Sidewall	0 - 10	03/15/2023	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**782**
SW-02	Sidewall	0 - 10	03/28/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	487
SW-03a	Sidewall	0 - 10	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**1,630**
SW-03a	Sidewall	0 - 10	03/15/2023	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**763**
SW-03a	Sidewall	0 - 10	03/28/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	484
SW-03b	Sidewall	0 - 10	03/15/2023	Excavated	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**709**
SW-03b	Sidewall	0 - 10	03/28/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	492
SW-03c	Sidewall	0 - 10	03/15/2023	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**700**
SW-03c	Sidewall	0 - 10	03/28/2023	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	485

Table 2
Confirmation Soil Sample Analytical Data Summary
Boo Radley Com 701H, 702H, 703H
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

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*	*600*
SW-04a	Sidewall	0 - 10	11/17/2022	Excavated	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	**1,410**
SW-04a	Sidewall	0 - 10	03/16/2023	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**993**
SW-04a	Sidewall	0 - 10	03/29/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	329
SW-04b	Sidewall	0 - 10	03/16/2023	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**746**
SW-04b	Sidewall	0 - 10	03/29/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	114
SW-04c	Sidewall	0 - 10	03/16/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	463
SW-05a	Sidewall	0 - 10	11/17/2022	Excavated	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**2,800**
SW-05a	Sidewall	0 - 10	02/24/2023	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,440**
SW-05a	Sidewall	0 - 10	03/15/2023	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**633**
SW-05a	Sidewall	0 - 10	03/29/2023	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	184
SW-05b	Sidewall	0 - 10	03/15/2023	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**941**
SW-05b	Sidewall	0 - 10	03/29/2023	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	365
SW-05c	Sidewall	0 - 10	03/15/2023	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**755**
SW-05c	Sidewall	0 - 10	03/29/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	127
SW-06	Sidewall	0 - 10	11/17/2022	Excavated	<0.00199	<0.00398	<26.0	<26.0	<26.0	<26.0	**1,680**
SW-06	Sidewall	0 - 10	02/21/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	115
SW-07	Sidewall	0 - 1.5	11/17/2022	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	189
SW-08a	Sidewall	0 - 1.5	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**2,580**
SW-08a	Sidewall	0 - 10	03/01/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	580
SW-08b	Sidewall	0 - 10	03/01/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	328
SW-08c	Sidewall	0 - 10	03/02/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	494
SW-09	Sidewall	0 - 10	11/17/2022	Excavated	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	**1,740**
SW-09	Sidewall	0 - 10	02/24/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	491
SW-10	Sidewall	0 - 10	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**1,970**
SW-10	Sidewall	0 - 10	02/24/2023	Excavated	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	439
SW-10	Sidewall	0 - 10	03/01/2023	Excavated	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**1,070**
SW-10	Sidewall	0 - 10	03/21/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	385
SW-11	Sidewall	0 - 10	11/17/2022	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**693**

Table 2
Confirmation Soil Sample Analytical Data Summary
Boo Radley Com 701H, 702H, 703H
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

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*	*600*
SW-11	Sidewall	0 - 10	02/17/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	264
SW-12	Sidewall	0 - 10	11/17/2022	Excavated	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	499
SW-12	Sidewall	0 - 10	02/16/2023	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	132
SW-13	Sidewall	0 - 10	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**1,610**
SW-13	Sidewall	0 - 10	02/16/2023	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	107
SW-14	Sidewall	0 - 10	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**2,910**
SW-14	Sidewall	0 - 10	02/15/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	242
SW-15	Sidewall	0 - 10	11/17/2022	Excavated	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**1,120**
SW-15	Sidewall	0 - 10	02/17/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	412
SW-16	Sidewall	0 - 10	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**2,770**
SW-16	Sidewall	0 - 10	02/15/2023	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	239
SW-17	Sidewall	0 - 10	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**3,290**
SW-17	Sidewall	0 - 10	02/15/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	358
SW-18	Sidewall	0 - 10	11/17/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**3,730**
SW-18	Sidewall	0 - 10	03/21/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	562
SW-19a	Sidewall	0 - 1.5	11/17/2022	Excavated	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	**2,770**
SW-19a	Sidewall	0 - 3	02/09/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	48.3
SW-19b	Sidewall	0 - 3	02/09/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	74.3
SW-20a	Sidewall	0 - 1.5	11/17/2022	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**9,010**
SW-20a	Sidewall	0 - 3	02/16/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	56.4
SW-20b	Sidewall	0 - 3	02/16/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	50.5
SW-21a	Sidewall	0 - 1	11/18/2022	Excavated	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	**6,600**
SW-21a	Sidewall	0 - 3	02/09/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	76.2
SW-21b	Sidewall	0 - 3	02/09/2023	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	46.1
SW-22a	Sidewall	0 - 1.5	11/18/2022	Excavated	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	**1,100**
SW-22a	Sidewall	0 - 4	02/16/2023	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	269
SW-22b	Sidewall	0 - 4	02/16/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	275
SW-22c	Sidewall	0 - 4	02/16/2023	Excavated	<0.00200	<0.00399	**410**	**481**	<49.9	**891**	225

Table 2
Confirmation Soil Sample Analytical Data Summary
Boo Radley Com 701H, 702H, 703H
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

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*	*600*
SW-22c	Sidewall	0 - 4	03/14/2023	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,120**
SW-22c	Sidewall	0 - 4	03/29/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	91.3
SW-23	Sidewall	0 - 1.5	12/05/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	237
SW-24a	Sidewall	0 - 1.5	12/05/2022	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**1,630**
SW-24a	Sidewall	0 - 4.5	02/08/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<5.00
SW-24b	Sidewall	0 - 3.5	01/23/2023	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	29.1
SW-24b	Sidewall	0 - 4.5	02/08/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<4.98
SW-25a	Sidewall	0 - 1.5	12/05/2022	Excavated	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**5,030**
SW-25a	Sidewall	0 - 3.5	01/23/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	428
SW-26	Sidewall	0 - 1.5	12/05/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	465

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

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

<: indicates that parameter concentration is below method analytical reporting limit

Depth reported in feet below ground surface (bgs)

* - 20-mil Polyethylene Liner Installed at the Bottom of the excavation at these locations

Bold and Highlighted indicates parameter concentration above NMOCD closure criteria

Locations greater than 10 feet bgs - fall into variance

Table 3
Backfill Soil Sample Analytical Summary
Boo Radley Com 701H, 702H, 703H
Eddy County, New Mexico
32° 02' 11.1798" North, 104° 05' 18.7489" West

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***	***600***
BF-1	Backfill	--	3/3/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	529
BF-2	Backfill	--	3/3/2023	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	288
BF-3	Backfill	--	3/3/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	433
BF-4	Backfill	--	3/3/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	253
BF-5	Backfill	--	3/3/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	371
BF-6	Backfill	--	3/3/2023	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	197
BF-7	Backfill	--	3/3/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	587
BF-8	Backfill	--	3/3/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**691**
BF-9	Backfill	--	3/3/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	201
BF-10	Backfill	--	3/3/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	288
BF-11	Backfill	--	3/3/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	57.4
BF-12	Backfill	--	3/3/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	51.4
BF-13	Backfill	--	3/3/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	46.7
BF-14	Backfill	--	3/3/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	15.8
BF-15	Backfill	--	3/3/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	50.7
BF-16	Backfill	--	3/3/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	58.5
BF-17	Backfill	--	3/3/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**927**
BF-18	Backfill	--	3/3/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	51.7
BF-19	Backfill	--	3/3/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	44.2
BF-20	Backfill	--	3/3/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	58.5
BF-21	Backfill	--	3/3/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	317
BF-22	Backfill	--	3/3/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	90

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

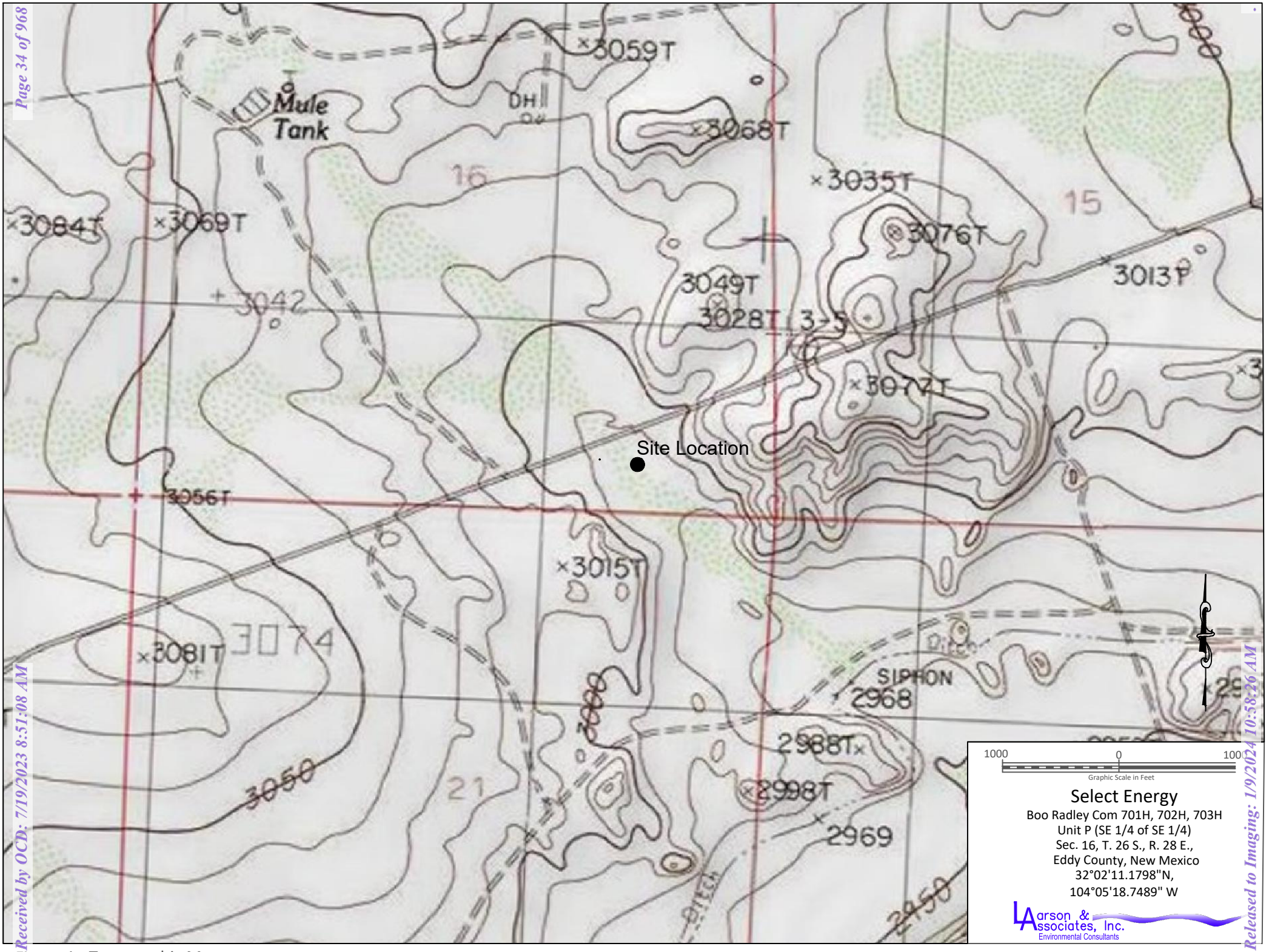
mg/Kg: milligrams per kilogram; equivalent to parts per million (ppm)

<: indicates that parameter concentration is below method analytical reporting limit

Bold and Highlighted indicates parameter concentration above NMOCD closure criteria

Figures

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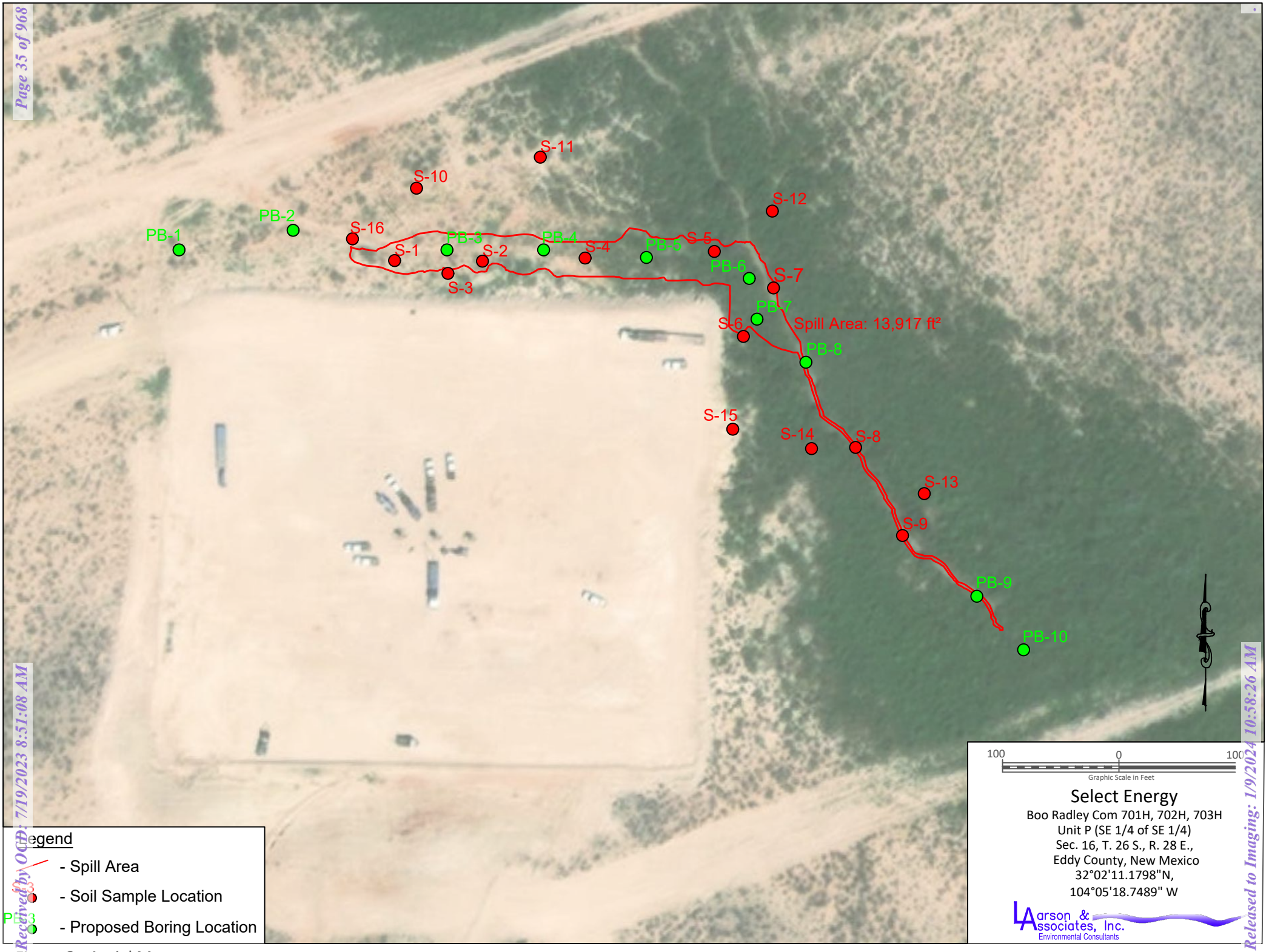


Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Figure 1 - Topographic Map

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Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Figure 2 - Aerial Map

Released to Imaging: 1/9/2024 10:58:26 AM
Received by OCD: 7/19/2023 8:51:08 AM

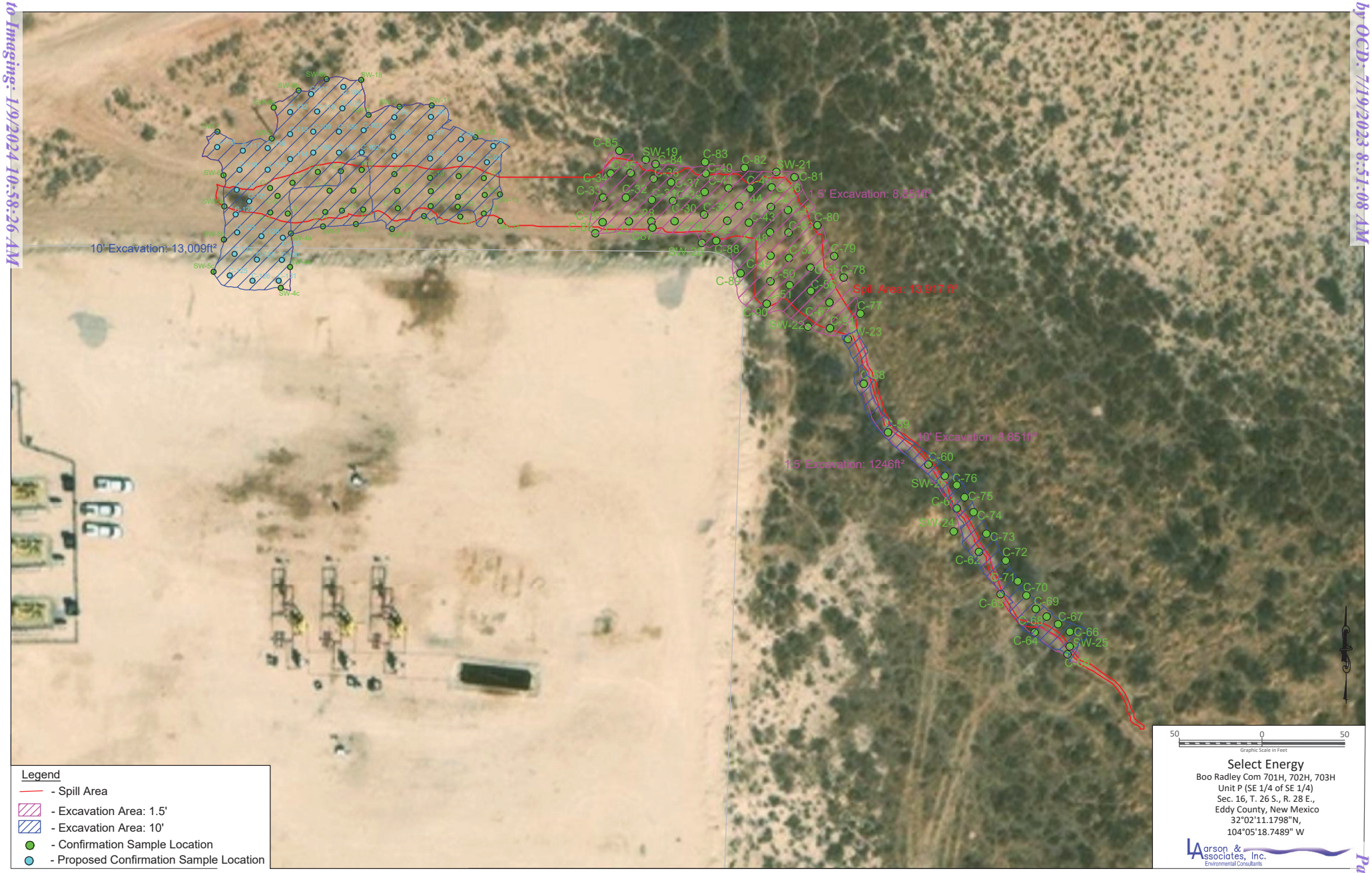


Figure 3 - Aerial Map Showing Excavation Locations and Confirmation Samples

Appendix A

Initial C-141

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

QUESTIONS

Action 67556

QUESTIONS

Operator: SELECT ENERGY SERVICES, LLC 201 California Street Gainesville, TX 76240	OGRID: 289068
	Action Number: 67556
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source *Please answer all of the questions in this group.*	
Site Name	COP - Boo Radley Com 701H, 702H, 703H
Date Release Discovered	12/08/2021
Surface Owner	State

Incident Details *Please answer all of the questions in this group.*	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Blow Out | Other (Specify) | Produced Water | Released: 0 BBL (Unknown Released Amount) | Recovered: 0 BBL | Lost: 0 BBL]
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	None

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QUESTIONS (continued)

Operator: SELECT ENERGY SERVICES, LLC 201 California Street Gainesville, TX 76240	OGRID: 289068
	Action Number: 67556
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by 19.15.29.7(A) NMAC	**Yes, major release.**
Reasons why this would be considered a submission for a notification of a major release	• Unauthorized release of an unknown volume (TBD), excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Conoco Phillips - Jacqui Harris
If YES, was immediate notice given to the OCD, to whom	Mike.Bratcher@state.nm.us
If YES, was immediate notice given to the OCD, when	12/09/2021
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	email
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	All immediate actions taken to protect the environment.
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 prepare and attach a narrative of actions to date in the follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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Oil Conservation Division
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ACKNOWLEDGMENTS

Operator: SELECT ENERGY SERVICES, LLC 201 California Street Gainesville, TX 76240	OGRID: 289068
	Action Number: 67556
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
☑	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☑	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☑	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.
☑	I acknowledge the fact that 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.
☑	I acknowledge the fact that, 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.

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Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
SELECT ENERGY SERVICES, LLC 201 California Street Gainesville, TX 76240	289068
	Action Number: 67556
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
hbutler	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	12/16/2021

Appendix B

NMOCD Communications

From: Hamlet, Robert, EMNRD
To: Robert Nelson
Cc: Halie Butler; Mark Larson; Daniel St. Germain
Subject: RE: [EXTERNAL] Select Energy - Boo Radley Com 701H, 702H, 703H Variance Approval
Date: Monday, August 29, 2022 11:15:25 AM
Attachments: image003.png

Robert,

I discussed this incident with Mike Bratcher and he is allowing the remediation plan to be conditionally approved without the groundwater impact study. It will require soil sample locations S-1 and S-2 to be excavated to 10 feet below ground surface. All other sample locations will need to be delineated/excavated to the strictest closure criteria standards. Confirmation samples should be collected every 200 ft2. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. The work will need to occur in 90 days.

I will add this email to the incident file and incident events for future reference.

Regards,

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Robert Nelson <rnelson@laenvironmental.com>
Sent: Friday, August 26, 2022 9:49 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Halie Butler <HButler@selectenergy.com>; Mark Larson <Mark@laenvironmental.com>; Daniel St. Germain <dstgermain@laenvironmental.com>
Subject: [EXTERNAL] Select Energy - Boo Radley Com 701H, 702H, 703H Variance Approval

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello Mr. Hamlet,

Larson & Associates, Inc. (LAI) on behalf of Select Energy Services (Select) requests a variance for the installation of a groundwater bore at the Boo Radley Com 701H, 702H, 703H (nAPP2135052895) (Site) in Eddy County, New Mexico. On July 12, 2022, Select received notification from the NMOCD

that the delineation report and remediation plan was conditionally approved and stated the following "…**Additionally, (3) Boreholes should be dropped and converted to monitoring wells as fluid is encountered. This will allow Select Energy to verify that there is no groundwater impact. Borehole 1 should be near the S-1 location to compare to the "Up Gradient Boring Location" and the "Down Gradient Boring Location". Soil sampling will need to take place in 5' increments during the drilling process of the boreholes. S-1 is over the limit at 30' and the capillary fringe was encountered at about 40 feet below ground surface (bgs) at sample location S-1. Please make sure borehole locations are pre-approved by OCD before drilling takes place.**

ConocoPhillips (COP) recently notified Select that on November 16, 2021, a COP contractor drilled a groundwater bore to approximately fifty-nine (59) feet below ground surface (bgs) about 0.39 miles southeast from the Site. The bore was gauged 72 hours after installation and was dry. Based on this information, LAI on behalf of Select requests a variance approval from the NMOCD to forego groundwater monitoring wells at the Site and proceed with remediation according to the NMOCD approved remediation plan without conditions. Please find attached the soil boring log. If you have any questions or require any additional information please let Halie Butler with Select Energy at HButler@selectenergy.com, Mark Larson at Mark@laenvironmental.com, Daniel St. Germain at dstgermain@laenvironmental.com, or me know.

Thank you,

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



Daniel St. Germain

From: Daniel St. Germain
Sent: Monday, May 8, 2023 8:39 AM
To: Hamlet, Robert, EMNRD; Nobui, Jennifer, EMNRD
Cc: Mark Larson; Robert Nelson; hbutler@selectenergy.com; Timsan Bricker
Subject: Backfill Notification - Boo Radley Produced Water Release (nAPP2135052895)
Attachments: Table-2_Confirmation-Sample-Analytical-Summary_Boo-Radley.pdf; Figure 3 - Aerial Map Showing Excavation Areas and Confirmation Samples.pdf

Hello Mr. Hamlet and Ms. Nobui,

Larson & Associates, Inc. (LAI), on behalf of Select Energy Services, submits the attached confirmation sample analytical data summary and excavation drawing with sample locations to the New Mexico Oil Conservation Division (NMOCD) to provide two (2) business days notification prior to backfilling portions of the excavation at the Boo Radley produced water release (nAPP2135052895) in Eddy County, New Mexico. The portions to be backfilled include the eastern excavation containing confirmation samples C-26 through C-64. Please feel free to contact Halie Butler with Select Energy at 281-467-3153 or hbutler@selectenergy.com, Mark Larson (432) 556-8656 or mark@laenvironmental.com, Robert Nelson (432) 664-4804 or rnelson@laenvironmental.com or me with any questions or concerns.

Respectfully,

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



Daniel St. Germain

From: Daniel St. Germain
Sent: Tuesday, June 6, 2023 4:47 PM
To: Hamlet, Robert, EMNRD; Nobui, Jennifer, EMNRD
Cc: Mark Larson; Robert Nelson; hbutler@selectenergy.com; Timsan Bricker
Subject: Backfill Notification - Boo Radley Produced Water Release (nAPP2135052895)
Attachments: Table-2_Confirmation-Sample-Analytical-Summary_Boo-Radley.pdf; Figure 3 - Aerial Map Showing Excavation Areas and Confirmation Samples.pdf

Hello Mr. Hamlet and Ms. Nobui,

Larson & Associates, Inc. (LAI), on behalf of Select Energy Services, submits the attached confirmation sample analytical data summary and excavation drawing with sample locations to the New Mexico Oil Conservation Division (NMOCD) to provide two (2) business days notification prior to backfilling the remaining areas of the excavation at the Boo Radley produced water release (nAPP2135052895) in Eddy County, New Mexico. The portions of the excavations to be backfilled include the western area of the excavation containing confirmation samples C-1 through C-25 and C-92 through C-133, and the area where a 20-mil thickness liner was installed at ten (10) feet bgs. Please feel free to contact Halie Butler with Select Energy at 281-467-3153 or hbutler@selectenergy.com, Mark Larson (432) 556-8656 or mark@laenvironmental.com, Robert Nelson (432) 664-4804 or rnelson@laenvironmental.com or me with any questions or concerns.

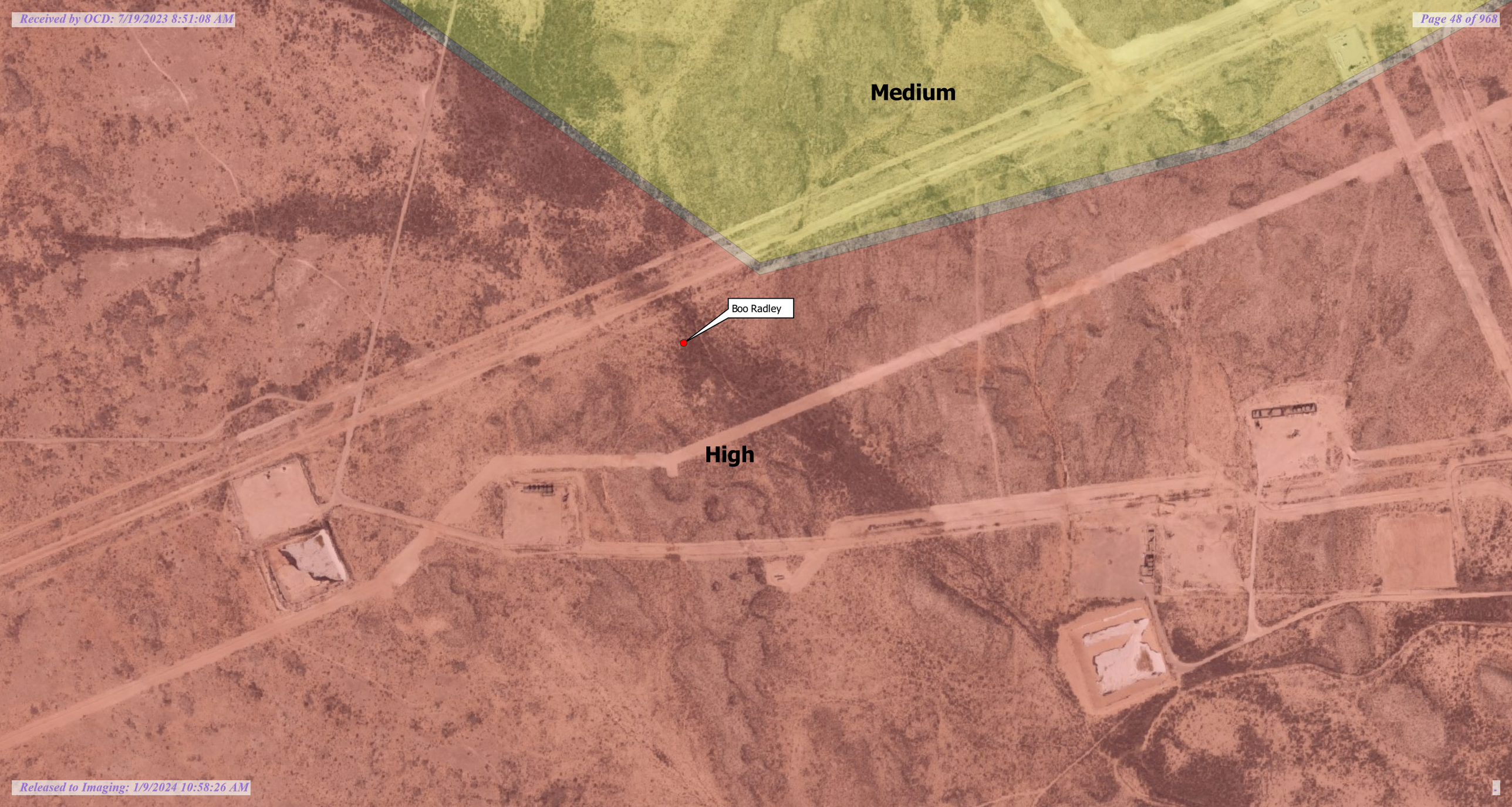
Respectfully,

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

Larson & Associates, Inc.
Environmental Consultants

Appendix C

Karst Potential Map


Medium
Boo Radley
High

Appendix D

Boring Log

NTG ENVIRONMENTAL

Project Name :	Diamondback 22 State 2H(08.30.2021)	Date :	November 16, 2021
Project No. :	214634	Sampler :	Clint Merritt
Location :	Eddy Co, New Mexico		
Coordinates :	32.03314°, -104.08201°	Driller :	Scarborough Drilling
Elevation :	2,991'	Method :	Air Rotary

Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Yellowish Orange/White well graded gravel with <50% coarse sand and caliche (GW). Dry	
5		(5') - Light reddish brown loose, medium sand with <50% fine well cemented gravel (SW). Dry	
10		(10') - Light reddish brown/ white loose fine sand with <25% fine well cemented gravel (SW). Dry	
15			
20		(20') - Light brown loose fine sand with <25% fine poorly cemented gravel and trace gypsum (SM). Dry	
25		(25') - White fine very loose sand with 100% gypsum (ML). Dry	
30			
35			
40			
45			
50			

Depth (ft.)	WL	Soil Description	Lithology
50		(50') - Light brown soft clay with <50% fine loose sand (CL). Dry	
55			
60		(59') - Light brown soft clay with 50% fine loose sand (CL). Moist	
65			
70			
75			
80			
85			
90			
95			
100			

Comments : Total Depth 59' bgs
Drilling Terminated @ 14:00 CT No groundwater present

On 11/19/2021 No groundwater present

Appendix E

Laboratory Reports

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Boo Radley 701H 702H 703H

Project Number: 21-0105-08

Location: New Mexico

Lab Order Number: 2K22002

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 11/30/22

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C1	2K22002-01	Soil	11/17/22 10:00	11-22-2022 08:12
C2	2K22002-02	Soil	11/17/22 10:05	11-22-2022 08:12
C3	2K22002-03	Soil	11/17/22 10:10	11-22-2022 08:12
C4	2K22002-04	Soil	11/17/22 10:15	11-22-2022 08:12
C5	2K22002-05	Soil	11/17/22 10:20	11-22-2022 08:12
SW1	2K22002-06	Soil	11/17/22 10:25	11-22-2022 08:12
SW2	2K22002-07	Soil	11/17/22 10:30	11-22-2022 08:12
SW3	2K22002-08	Soil	11/17/22 10:35	11-22-2022 08:12
SW4	2K22002-09	Soil	11/17/22 10:40	11-22-2022 08:12
SW5	2K22002-10	Soil	11/17/22 10:45	11-22-2022 08:12
SW6	2K22002-11	Soil	11/17/22 11:00	11-22-2022 08:12
C6	2K22002-12	Soil	11/17/22 11:05	11-22-2022 08:12
C7	2K22002-13	Soil	11/17/22 11:10	11-22-2022 08:12
C8	2K22002-14	Soil	11/17/22 11:15	11-22-2022 08:12
C9	2K22002-15	Soil	11/17/22 11:20	11-22-2022 08:12
C10	2K22002-16	Soil	11/17/22 11:25	11-22-2022 08:12
C11	2K22002-17	Soil	11/17/22 11:30	11-22-2022 08:12
C12	2K22002-18	Soil	11/17/22 11:35	11-22-2022 08:12
C13	2K22002-19	Soil	11/17/22 11:40	11-22-2022 08:12
SW7	2K22002-20	Soil	11/17/22 11:45	11-22-2022 08:12
SW8	2K22002-21	Soil	11/17/22 11:50	11-22-2022 08:12
C14	2K22002-22	Soil	11/17/22 11:55	11-22-2022 08:12
C15	2K22002-23	Soil	11/17/22 12:00	11-22-2022 08:12
C16	2K22002-24	Soil	11/17/22 12:05	11-22-2022 08:12
C17	2K22002-25	Soil	11/17/22 12:10	11-22-2022 08:12
C18	2K22002-26	Soil	11/17/22 12:15	11-22-2022 08:12
C19	2K22002-27	Soil	11/17/22 12:20	11-22-2022 08:12
C20	2K22002-28	Soil	11/17/22 12:25	11-22-2022 08:12
C21	2K22002-29	Soil	11/17/22 12:30	11-22-2022 08:12
C22	2K22002-30	Soil	11/17/22 12:35	11-22-2022 08:12
C23	2K22002-31	Soil	11/17/22 12:40	11-22-2022 08:12
C24	2K22002-32	Soil	11/17/22 12:45	11-22-2022 08:12
C25	2K22002-33	Soil	11/17/22 13:00	11-22-2022 08:12
SW9	2K22002-34	Soil	11/17/22 13:05	11-22-2022 08:12

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW10	2K22002-35	Soil	11/17/22 13:10	11-22-2022 08:12
SW11	2K22002-36	Soil	11/17/22 13:15	11-22-2022 08:12
SW12	2K22002-37	Soil	11/17/22 13:20	11-22-2022 08:12
SW13	2K22002-38	Soil	11/17/22 13:25	11-22-2022 08:12
SW14	2K22002-39	Soil	11/17/22 13:30	11-22-2022 08:12
SW15	2K22002-40	Soil	11/17/22 13:35	11-22-2022 08:12
SW16	2K22002-41	Soil	11/17/22 13:40	11-22-2022 08:12
SW17	2K22002-42	Soil	11/17/22 13:45	11-22-2022 08:12
SW18	2K22002-43	Soil	11/17/22 14:00	11-22-2022 08:12
C26	2K22002-44	Soil	11/17/22 14:05	11-22-2022 08:12
C27	2K22002-45	Soil	11/17/22 14:10	11-22-2022 08:12
C28	2K22002-46	Soil	11/17/22 14:15	11-22-2022 08:12
C29	2K22002-47	Soil	11/17/22 14:20	11-22-2022 08:12
C30	2K22002-48	Soil	11/17/22 14:25	11-22-2022 08:12
C31	2K22002-49	Soil	11/17/22 14:30	11-22-2022 08:12
C32	2K22002-50	Soil	11/17/22 14:35	11-22-2022 08:12
C33	2K22002-51	Soil	11/17/22 14:40	11-22-2022 08:12
C34	2K22002-52	Soil	11/17/22 14:45	11-22-2022 08:12
C35	2K22002-53	Soil	11/17/22 14:50	11-22-2022 08:12
C36	2K22002-54	Soil	11/17/22 14:55	11-22-2022 08:12
C37	2K22002-55	Soil	11/17/22 15:00	11-22-2022 08:12
SW19	2K22002-56	Soil	11/17/22 15:05	11-22-2022 08:12
SW20	2K22002-57	Soil	11/17/22 15:10	11-22-2022 08:12
C38	2K22002-58	Soil	11/18/22 09:00	11-22-2022 08:12
C39	2K22002-59	Soil	11/18/22 09:05	11-22-2022 08:12
C40	2K22002-60	Soil	11/18/22 09:10	11-22-2022 08:12
SW21	2K22002-61	Soil	11/18/22 09:15	11-22-2022 08:12
C41	2K22002-62	Soil	11/18/22 09:20	11-22-2022 08:12
C42	2K22002-63	Soil	11/18/22 09:25	11-22-2022 08:12
C43	2K22002-64	Soil	11/18/22 09:30	11-22-2022 08:12
C44	2K22002-65	Soil	11/18/22 09:35	11-22-2022 08:12
C45	2K22002-66	Soil	11/18/22 09:40	11-22-2022 08:12
C46	2K22002-67	Soil	11/18/22 09:45	11-22-2022 08:12
C47	2K22002-68	Soil	11/18/22 09:50	11-22-2022 08:12

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C48	2K22002-69	Soil	11/18/22 09:55	11-22-2022 08:12
C49	2K22002-70	Soil	11/18/22 10:00	11-22-2022 08:12
C50	2K22002-71	Soil	11/18/22 10:10	11-22-2022 08:12
C51	2K22002-72	Soil	11/18/22 10:15	11-22-2022 08:12
C52	2K22002-73	Soil	11/18/22 10:20	11-22-2022 08:12
C53	2K22002-74	Soil	11/18/22 10:25	11-22-2022 08:12
C54	2K22002-75	Soil	11/18/22 10:30	11-22-2022 08:12
C55	2K22002-76	Soil	11/18/22 10:30	11-22-2022 08:12
C56	2K22002-77	Soil	11/18/22 10:35	11-22-2022 08:12
C57	2K22002-78	Soil	11/18/22 10:40	11-22-2022 08:12
SW22	2K22002-79	Soil	11/18/22 10:45	11-22-2022 08:12

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C1

2K22002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 03:35	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 03:35	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 03:35	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 03:35	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 03:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 03:35*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.9 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 03:35*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2200**	26.3	mg/kg dry	25	P2K2805	11/28/22 10:59	11/28/22 21:05	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/28/22 10:13	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/28/22 10:13	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/28/22 10:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.8 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/28/22 10:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/28/22 10:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	11/23/22 07:50	11/28/22 10:13	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C2

2K22002-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 03:57	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 03:57	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 03:57	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 03:57	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 03:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.6 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 03:57*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 03:57*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1460**	26.0	mg/kg dry	25	P2K2805	11/28/22 10:59	11/28/22 21:19	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 15:03	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 15:03	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 15:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.1 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 15:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.9 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 15:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 15:03	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C3

2K22002-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 04:18	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 04:18	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 04:18	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 04:18	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 04:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.9 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 04:18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 04:18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2250**	25.8	mg/kg dry	25	P2K2805	11/28/22 10:59	11/28/22 21:32	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 15:24	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 15:24	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 15:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.9 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 15:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.7 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 15:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 15:24	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C4

2K22002-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 04:39	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 04:39	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 04:39	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 04:39	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 04:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.7 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 04:39*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 04:39*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1510**	26.3	mg/kg dry	25	P2K2805	11/28/22 10:59	11/28/22 21:45	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 15:46	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 15:46	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 15:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.6 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 15:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.5 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 15:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 15:46	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C5

2K22002-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:00	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:00	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:00	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:00	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.9 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 05:00*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 05:00*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2120**	26.3	mg/kg dry	25	P2K2805	11/28/22 10:59	11/28/22 21:59	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 16:07	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 16:07	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 16:07	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.4 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 16:07*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.7 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 16:07*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 16:07	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW1

2K22002-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:21	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:21	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:21	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:21	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.4 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 05:21*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 05:21*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1980**	25.5	mg/kg dry	25	P2K2805	11/28/22 10:59	11/28/22 22:12	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 16:29	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 16:29	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 16:29	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.5 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 16:29*	*TPH 8015M*	
Surrogate: o-Terphenyl		*84.2 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 16:29*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 16:29	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW2

2K22002-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:42	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:42	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:42	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:42	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 05:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 05:42*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.8 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 05:42*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1890**	25.8	mg/kg dry	25	P2K2805	11/28/22 10:59	11/28/22 22:25	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 16:50	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 16:50	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 16:50	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.7 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 16:50*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.4 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 16:50*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 16:50	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW3

2K22002-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 06:03	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 06:03	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 06:03	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 06:03	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 06:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.5 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 06:03*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 06:03*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1630**	10.2	mg/kg dry	10	P2K2805	11/28/22 10:59	11/28/22 23:05	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 17:12	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 17:12	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 17:12	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.0 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 17:12*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.5 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 17:12*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 17:12	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW4

2K22002-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 06:25	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 06:25	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 06:25	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 06:25	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 06:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.5 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 06:25*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 06:25*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1410**	25.3	mg/kg dry	25	P2K2805	11/28/22 10:59	11/28/22 23:45	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 18:16	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 18:16	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 18:16	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.8 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 18:16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.0 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 18:16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 18:16	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW5

2K22002-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 07:28	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 07:28	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 07:28	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 07:28	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 07:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.3 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 07:28*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 07:28*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2800**	25.8	mg/kg dry	25	P2K2805	11/28/22 10:59	11/28/22 23:58	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 18:37	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 18:37	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 18:37	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.9 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 18:37*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.6 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 18:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 18:37	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW6

2K22002-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 07:49	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 07:49	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 07:49	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 07:49	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 07:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.3 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 07:49*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 07:49*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1680**	26.0	mg/kg dry	25	P2K2805	11/28/22 10:59	11/29/22 00:11	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 18:59	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 18:59	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 18:59	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.8 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 18:59*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.4 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 18:59*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 18:59	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C6

2K22002-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:11	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:11	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:11	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:11	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:11	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.4 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 08:11*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 08:11*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1570**	5.10	mg/kg dry	5	P2K2805	11/28/22 10:59	11/29/22 00:25	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 19:20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 19:20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 19:20	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.3 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 19:20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.6 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 19:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 19:20	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C7

2K22002-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:32	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:32	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:32	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:32	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.7 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 08:32*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 08:32*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1430**	5.05	mg/kg dry	5	P2K2805	11/28/22 10:59	11/29/22 00:38	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 19:42	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 19:42	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 19:42	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.4 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 19:42*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.3 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 19:42*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 19:42	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C8

2K22002-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:53	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:53	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:53	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:53	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 08:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.2 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 08:53*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 08:53*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**960**	5.10	mg/kg dry	5	P2K2805	11/28/22 10:59	11/29/22 00:51	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 20:03	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 20:03	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 20:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.5 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 20:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.0 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 20:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 20:03	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C9

2K22002-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:15	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:15	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:15	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:15	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.5 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 09:15*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.7 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 09:15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1230**	5.15	mg/kg dry	5	P2K2805	11/28/22 10:59	11/29/22 01:04	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 20:25	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 20:25	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 20:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.0 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 20:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.9 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 20:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 20:25	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C10

2K22002-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:36	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:36	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:36	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:36	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.5 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 09:36*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 09:36*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1690**	5.10	mg/kg dry	5	P2K2805	11/28/22 10:59	11/29/22 01:18	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 20:46	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 20:46	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 20:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.0 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 20:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.2 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 20:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 20:46	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C11

2K22002-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:57	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:57	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:57	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:57	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 09:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.4 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 09:57*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 09:57*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**419**	1.02	mg/kg dry	1	P2K2805	11/28/22 10:59	11/29/22 01:31	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 21:08	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 21:08	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 21:08	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.1 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 21:08*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 21:08*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 21:08	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C12

2K22002-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 10:19	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 10:19	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 10:19	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 10:19	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 10:19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.2 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 10:19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 10:19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**573**	1.02	mg/kg dry	1	P2K2807	11/28/22 12:54	11/29/22 02:51	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 21:30	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 21:30	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2302	11/23/22 07:50	11/23/22 21:30	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.5 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 21:30*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.0 %*	*70-130*		*P2K2302*	*11/23/22 07:50*	*11/23/22 21:30*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 07:50	11/23/22 21:30	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C13

2K22002-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 10:40	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 10:40	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 10:40	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 10:40	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2203	11/22/22 14:02	11/23/22 10:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 10:40*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.1 %*	*80-120*		*P2K2203*	*11/22/22 14:02*	*11/23/22 10:40*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**735**	5.10	mg/kg dry	5	P2K2807	11/28/22 12:54	11/29/22 03:04	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 00:24	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 00:24	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 00:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.2 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 00:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.9 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 00:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 00:24	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW7

2K22002-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 12:31	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 12:31	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 12:31	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 12:31	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 12:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.6 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 12:31*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.9 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 12:31*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**189**	1.01	mg/kg dry	1	P2K2807	11/28/22 12:54	11/29/22 03:45	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 00:45	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 00:45	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 00:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.4 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 00:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*75.6 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 00:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 00:45	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW8

2K22002-21 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 12:52	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 12:52	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 12:52	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 12:52	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 12:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 12:52*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.9 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 12:52*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2580**	5.10	mg/kg dry	5	P2K2807	11/28/22 12:54	11/29/22 03:58	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 01:07	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 01:07	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 01:07	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.3 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 01:07*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.5 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 01:07*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 01:07	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C14

2K22002-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:14	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:14	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:14	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:14	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 13:14*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.9 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 13:14*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**791**	5.10	mg/kg dry	5	P2K2807	11/28/22 12:54	11/29/22 04:11	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2301	11/23/22 08:31	11/23/22 08:32	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 01:29	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 01:29	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 01:29	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.7 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 01:29*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.4 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 01:29*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 01:29	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C15

2K22002-23 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:35	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:35	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:35	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:35	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 13:35*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.6 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 13:35*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1510**	10.2	mg/kg dry	10	P2K2807	11/28/22 12:54	11/29/22 04:25	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 01:51	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 01:51	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 01:51	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.7 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 01:51*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.5 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 01:51*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 01:51	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C16

2K22002-24 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:57	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:57	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:57	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:57	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 13:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*88.9 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 13:57*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 13:57*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1700**	10.3	mg/kg dry	10	P2K2807	11/28/22 12:54	11/29/22 04:38	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 02:13	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 02:13	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 02:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.9 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 02:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.7 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 02:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 02:13	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C17

2K22002-25 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 14:18	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 14:18	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 14:18	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 14:18	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 14:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*87.8 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 14:18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 14:18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1890**	25.8	mg/kg dry	25	P2K2807	11/28/22 12:54	11/29/22 04:51	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 02:35	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 02:35	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 02:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.0 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 02:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.8 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 02:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 02:35	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C18

2K22002-26 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 14:40	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 14:40	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 14:40	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 14:40	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 14:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 14:40*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*87.7 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 14:40*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1590**	26.0	mg/kg dry	25	P2K2807	11/28/22 12:54	11/29/22 05:05	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 02:57	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 02:57	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 02:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.5 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 02:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.7 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 02:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 02:57	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C19

2K22002-27 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:01	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:01	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:01	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:01	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 15:01*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.0 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 15:01*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**993**	25.5	mg/kg dry	25	P2K2807	11/28/22 12:54	11/29/22 05:18	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 03:18	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 03:18	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 03:18	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.0 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 03:18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.2 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 03:18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 03:18	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C20

2K22002-28 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:23	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:23	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:23	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:23	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*87.5 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 15:23*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 15:23*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**625**	10.4	mg/kg dry	10	P2K2807	11/28/22 12:54	11/29/22 05:58	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 03:40	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 03:40	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 03:40	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.7 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 03:40*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.8 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 03:40*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 03:40	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C21

2K22002-29 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:44	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:44	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:44	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:44	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 15:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 15:44*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.2 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 15:44*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1000**	26.3	mg/kg dry	25	P2K2807	11/28/22 12:54	11/29/22 06:38	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 04:46	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 04:46	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 04:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.8 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 04:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.6 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 04:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 04:46	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C22

2K22002-30 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 16:49	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 16:49	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 16:49	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 16:49	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 16:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*87.8 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 16:49*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 16:49*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1380**	26.0	mg/kg dry	25	P2K2807	11/28/22 12:54	11/29/22 06:51	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 05:08	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 05:08	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 05:08	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.9 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 05:08*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.1 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 05:08*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 05:08	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C23

2K22002-31 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:10	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:10	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:10	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:10	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*96.0 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 17:10*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.3 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 17:10*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2550**	26.3	mg/kg dry	25	P2K2807	11/28/22 12:54	11/29/22 07:05	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 05:29	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 05:29	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 05:29	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.8 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 05:29*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 05:29*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 05:29	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C24

2K22002-32 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:32	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:32	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:32	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:32	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.9 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 17:32*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 17:32*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1750**	26.0	mg/kg dry	25	P2K2807	11/28/22 12:54	11/29/22 07:18	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 05:51	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 05:51	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 05:51	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.8 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 05:51*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.6 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 05:51*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 05:51	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C25

2K22002-33 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:53	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:53	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:53	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:53	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 17:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.8 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 17:53*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.4 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 17:53*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1130**	26.6	mg/kg dry	25	P2K2807	11/28/22 12:54	11/29/22 07:31	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 06:13	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 06:13	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 06:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.5 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 06:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.6 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 06:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 06:13	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW9

2K22002-34 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:14	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:14	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:14	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:14	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*94.8 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 18:14*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.9 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 18:14*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1740**	26.6	mg/kg dry	25	P2K2807	11/28/22 12:54	11/29/22 07:45	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 06:34	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 06:34	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 06:34	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.0 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 06:34*	*TPH 8015M*	
Surrogate: o-Terphenyl		*81.9 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 06:34*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 06:34	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW10

2K22002-35 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:35	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:35	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:35	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:35	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.6 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 18:35*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.6 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 18:35*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1970**	25.5	mg/kg dry	25	P2K2807	11/28/22 12:54	11/29/22 07:58	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 06:56	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 06:56	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 06:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.7 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 06:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.0 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 06:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 06:56	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW11

2K22002-36 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:56	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:56	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:56	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:56	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 18:56	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.0 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 18:56*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 18:56*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**693**	10.5	mg/kg dry	10	P2K2807	11/28/22 12:54	11/29/22 08:11	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 07:18	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 07:18	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 07:18	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.4 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 07:18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.2 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 07:18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 07:18	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW12

2K22002-37 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:17	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:17	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:17	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:17	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 19:17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.2 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 19:17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**499**	10.3	mg/kg dry	10	P2K2807	11/28/22 12:54	11/29/22 08:24	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 07:39	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 07:39	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 07:39	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.4 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 07:39*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.4 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 07:39*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 07:39	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW13

2K22002-38 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:38	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:38	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:38	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:38	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.3 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 19:38*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*95.3 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 19:38*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1610**	5.10	mg/kg dry	5	P2K2809	11/28/22 13:20	11/28/22 14:55	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 08:01	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 08:01	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2303	11/23/22 08:25	11/24/22 08:01	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.2 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 08:01*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.0 %*	*70-130*		*P2K2303*	*11/23/22 08:25*	*11/24/22 08:01*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:25	11/24/22 08:01	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW14

2K22002-39 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:59	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:59	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:59	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:59	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2802	11/28/22 09:33	11/28/22 19:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.1 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 19:59*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.5 %*	*80-120*		*P2K2802*	*11/28/22 09:33*	*11/28/22 19:59*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2910**	5.10	mg/kg dry	5	P2K2809	11/28/22 13:20	11/28/22 15:51	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 11:15	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 11:15	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 11:15	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.7 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 11:15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.9 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 11:15*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 11:15	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW15

2K22002-40 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 22:48	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 22:48	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 22:48	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 22:48	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 22:48	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.7 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/28/22 22:48*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*95.4 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/28/22 22:48*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1120**	5.15	mg/kg dry	5	P2K2809	11/28/22 13:20	11/29/22 09:15	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 11:36	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 11:36	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 11:36	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.4 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 11:36*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.6 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 11:36*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 11:36	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW16

2K22002-41 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:09	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:09	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:09	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:09	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.4 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/28/22 23:09*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/28/22 23:09*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2770**	25.5	mg/kg dry	25	P2K2809	11/28/22 13:20	11/28/22 16:28	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 11:58	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 11:58	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 11:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.2 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 11:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.9 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 11:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 11:58	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW17

2K22002-42 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:30	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:30	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:30	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:30	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/28/22 23:30*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.0 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/28/22 23:30*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3290**	10.2	mg/kg dry	10	P2K2809	11/28/22 13:20	11/28/22 16:46	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 12:19	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 12:19	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 12:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.3 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 12:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*86.9 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 12:19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 12:19	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW18

2K22002-43 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:51	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:51	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:51	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:51	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/28/22 23:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/28/22 23:51*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.7 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/28/22 23:51*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3730**	25.5	mg/kg dry	25	P2K2809	11/28/22 13:20	11/28/22 17:05	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 12:41	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 12:41	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 12:41	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 12:41*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 12:41*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 12:41	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C26

2K22002-44 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:12	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:12	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:12	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:12	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 00:12*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.0 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 00:12*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1750**	5.10	mg/kg dry	5	P2K2809	11/28/22 13:20	11/28/22 17:23	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 13:02	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 13:02	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 13:02	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.1 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 13:02*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.6 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 13:02*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 13:02	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C27

2K22002-45 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:33	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:33	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:33	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:33	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 00:33*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.6 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 00:33*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2270**	5.10	mg/kg dry	5	P2K2809	11/28/22 13:20	11/28/22 17:42	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 13:24	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 13:24	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 13:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.4 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 13:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.8 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 13:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 13:24	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C28

2K22002-46 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:54	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:54	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:54	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:54	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 00:54	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*110 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 00:54*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.2 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 00:54*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3400**	10.1	mg/kg dry	10	P2K2809	11/28/22 13:20	11/28/22 18:00	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 13:45	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 13:45	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 13:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.2 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 13:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.6 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 13:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 13:45	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C29

2K22002-47 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:15	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:15	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:15	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:15	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.8 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 01:15*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.8 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 01:15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1700**	5.10	mg/kg dry	5	P2K2809	11/28/22 13:20	11/28/22 18:19	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 14:07	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 14:07	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 14:07	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.3 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 14:07*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.0 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 14:07*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 14:07	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C30

2K22002-48 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:36	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:36	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:36	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:36	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.5 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 01:36*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.6 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 01:36*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1960**	5.05	mg/kg dry	5	P2K2809	11/28/22 13:20	11/28/22 19:14	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 14:28	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 14:28	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 14:28	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.7 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 14:28*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.8 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 14:28*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 14:28	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C31

2K22002-49 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:57	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:57	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:57	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:57	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 01:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 01:57*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.8 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 01:57*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3070**	5.10	mg/kg dry	5	P2K2809	11/28/22 13:20	11/28/22 20:10	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 15:33	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 15:33	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 15:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.9 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 15:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.0 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 15:33*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 15:33	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C32

2K22002-50 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:00	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:00	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:00	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:00	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 03:00*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.3 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 03:00*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2190**	5.05	mg/kg dry	5	P2K2809	11/28/22 13:20	11/28/22 20:28	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 15:54	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 15:54	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 15:54	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.8 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 15:54*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.1 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 15:54*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 15:54	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C33

2K22002-51 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:21	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:21	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:21	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:21	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.3 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 03:21*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 03:21*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1240**	5.05	mg/kg dry	5	P2K2809	11/28/22 13:20	11/28/22 20:47	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 16:15	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 16:15	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 16:15	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.3 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 16:15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.9 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 16:15*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 16:15	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C34

2K22002-52 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:42	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:42	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:42	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:42	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 03:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 03:42*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.5 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 03:42*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1490**	5.10	mg/kg dry	5	P2K2809	11/28/22 13:20	11/28/22 21:05	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 16:37	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 16:37	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 16:37	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.2 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 16:37*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.9 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 16:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 16:37	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C35

2K22002-53 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:04	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:04	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:04	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:04	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 04:04*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.3 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 04:04*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2500**	5.15	mg/kg dry	5	P2K2809	11/28/22 13:20	11/28/22 21:24	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 16:58	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 16:58	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 16:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.9 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 16:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 16:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 16:58	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C36

2K22002-54 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:25	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:25	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:25	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:25	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.5 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 04:25*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.4 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 04:25*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1700**	5.10	mg/kg dry	5	P2K2809	11/28/22 13:20	11/28/22 21:42	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 17:20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 17:20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 17:20	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.8 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 17:20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.3 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 17:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 17:20	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C37

2K22002-55 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:46	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:46	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:46	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:46	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 04:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.7 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 04:46*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 04:46*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**193**	1.03	mg/kg dry	1	P2K2809	11/28/22 13:20	11/28/22 22:01	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 17:42	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 17:42	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 17:42	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.7 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 17:42*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.2 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 17:42*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 17:42	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW19

2K22002-56 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:07	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:07	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:07	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:07	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.3 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 05:07*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.3 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 05:07*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2770**	5.05	mg/kg dry	5	P2K2809	11/28/22 13:20	11/28/22 22:19	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 18:04	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 18:04	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 18:04	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.5 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 18:04*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.5 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 18:04*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 18:04	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW20

2K22002-57 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:28	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:28	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:28	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:28	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.6 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 05:28*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 05:28*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**9010**	26.3	mg/kg dry	25	P2K2809	11/28/22 13:20	11/28/22 22:38	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 18:25	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 18:25	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 18:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.1 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 18:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.3 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 18:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 18:25	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C38

2K22002-58 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:49	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:49	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:49	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:49	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 05:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.0 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 05:49*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.5 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 05:49*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5210**	10.1	mg/kg dry	10	P2K2904	11/29/22 09:31	11/29/22 11:06	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 18:47	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 18:47	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2K2304	11/23/22 08:40	11/24/22 18:47	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.0 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 18:47*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.3 %*	*70-130*		*P2K2304*	*11/23/22 08:40*	*11/24/22 18:47*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/23/22 08:40	11/24/22 18:47	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C39

2K22002-59 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 06:10	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 06:10	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 06:10	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 06:10	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2803	11/28/22 09:47	11/29/22 06:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.9 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 06:10*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.3 %*	*80-120*		*P2K2803*	*11/28/22 09:47*	*11/29/22 06:10*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3820**	10.2	mg/kg dry	10	P2K2904	11/29/22 09:31	11/29/22 11:46	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 14:56	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 14:56	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 14:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.3 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 14:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.9 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 14:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 14:56	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C40

2K22002-60 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00130**	0.00102	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 16:48	EPA 8021B	
Toluene	**0.00474**	0.00102	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 16:48	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 16:48	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 16:48	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 16:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 16:48*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*87.1 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 16:48*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1360**	1.02	mg/kg dry	1	P2K2904	11/29/22 09:31	11/29/22 11:59	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 15:18	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 15:18	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 15:18	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.7 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 15:18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.8 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 15:18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 15:18	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW21

2K22002-61 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:09	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:09	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:09	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:09	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 17:09*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.0 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 17:09*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6600**	10.6	mg/kg dry	10	P2K2904	11/29/22 09:31	11/29/22 12:12	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 15:40	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 15:40	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 15:40	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.7 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 15:40*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 15:40*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 15:40	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C41

2K22002-62 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:30	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:30	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:30	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:30	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.2 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 17:30*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 17:30*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4870**	10.2	mg/kg dry	10	P2K2904	11/29/22 09:31	11/29/22 12:26	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 16:01	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 16:01	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 16:01	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.6 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 16:01*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.0 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 16:01*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 16:01	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C42

2K22002-63 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:52	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:52	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:52	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:52	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 17:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 17:52*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.1 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 17:52*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4110**	10.3	mg/kg dry	10	P2K2904	11/29/22 09:31	11/29/22 12:39	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 16:23	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 16:23	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 16:23	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.9 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 16:23*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.8 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 16:23*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 16:23	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C43

2K22002-64 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:13	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:13	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:13	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:13	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 18:13*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.7 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 18:13*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6680**	11.0	mg/kg dry	10	P2K2904	11/29/22 09:31	11/29/22 12:52	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 16:44	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 16:44	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 16:44	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.4 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 16:44*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.0 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 16:44*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 16:44	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C44

2K22002-65 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:34	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:34	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:34	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:34	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:34	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.3 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 18:34*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.1 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 18:34*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4960**	10.4	mg/kg dry	10	P2K2904	11/29/22 09:31	11/29/22 13:06	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 17:05	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 17:05	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 17:05	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.2 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 17:05*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.2 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 17:05*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 17:05	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C45

2K22002-66 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:55	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:55	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:55	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:55	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 18:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 18:55*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.0 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 18:55*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4110**	10.8	mg/kg dry	10	P2K2904	11/29/22 09:31	11/29/22 13:19	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 17:27	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 17:27	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 17:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.9 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 17:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.3 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 17:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 17:27	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C46

2K22002-67 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:16	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:16	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:16	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:16	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.4 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 19:16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 19:16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1870**	5.26	mg/kg dry	5	P2K2904	11/29/22 09:31	11/29/22 13:32	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 17:48	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 17:48	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 17:48	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.8 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 17:48*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.2 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 17:48*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 17:48	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C47

2K22002-68 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:37	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:37	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:37	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:37	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 19:37*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.7 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 19:37*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4110**	10.9	mg/kg dry	10	P2K2904	11/29/22 09:31	11/29/22 14:12	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 18:10	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 18:10	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 18:10	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.9 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 18:10*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.9 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 18:10*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 18:10	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C48

2K22002-69 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:58	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:58	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:58	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:58	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 19:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 19:58*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.7 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 19:58*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3990**	11.0	mg/kg dry	10	P2K2904	11/29/22 09:31	11/29/22 14:52	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 19:13	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 19:13	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 19:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.5 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 19:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.9 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 19:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 19:13	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C49

2K22002-70 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:01	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:01	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:01	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:01	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.4 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 21:01*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 21:01*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4660**	10.8	mg/kg dry	10	P2K2904	11/29/22 09:31	11/29/22 15:05	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 19:34	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 19:34	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 19:34	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.2 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 19:34*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.4 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 19:34*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 19:34	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C50

2K22002-71 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:22	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:22	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:22	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:22	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 21:22*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.7 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 21:22*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1440**	1.04	mg/kg dry	1	P2K2904	11/29/22 09:31	11/29/22 15:19	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 19:56	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 19:56	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 19:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.6 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 19:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.9 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 19:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 19:56	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C51

2K22002-72 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:43	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:43	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:43	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:43	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 21:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.3 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 21:43*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 21:43*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**803**	1.04	mg/kg dry	1	P2K2904	11/29/22 09:31	11/29/22 15:32	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 20:17	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 20:17	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 20:17	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.4 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 20:17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.7 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 20:17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 20:17	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C52

2K22002-73 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:04	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:04	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:04	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:04	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.9 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 22:04*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 22:04*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1500**	5.43	mg/kg dry	5	P2K2904	11/29/22 09:31	11/29/22 15:45	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 20:38	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 20:38	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 20:38	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.2 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 20:38*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 20:38*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 20:38	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C53

2K22002-74 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:25	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:25	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:25	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:25	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.0 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 22:25*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 22:25*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3560**	5.62	mg/kg dry	5	P2K2904	11/29/22 09:31	11/29/22 15:59	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 20:59	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 20:59	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 20:59	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.9 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 20:59*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.0 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 20:59*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 20:59	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C54

2K22002-75 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:46	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:46	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:46	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:46	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 22:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 22:46*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.9 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 22:46*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6460**	11.0	mg/kg dry	10	P2K2904	11/29/22 09:31	11/29/22 16:12	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 21:21	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 21:21	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 21:21	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.3 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 21:21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.2 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 21:21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 21:21	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C55

2K22002-76 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:07	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:07	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:07	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:07	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 23:07*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.8 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 23:07*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2600**	5.38	mg/kg dry	5	P2K2904	11/29/22 09:31	11/29/22 16:25	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 21:42	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 21:42	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 21:42	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.5 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 21:42*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 21:42*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 21:42	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C56

2K22002-77 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:28	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:28	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:28	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:28	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.4 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 23:28*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 23:28*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1080**	1.05	mg/kg dry	1	P2K2904	11/29/22 09:31	11/29/22 16:39	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 22:03	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 22:03	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 22:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.0 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 22:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 22:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 22:03	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

C57

2K22002-78 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:49	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:49	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:49	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:49	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2K2905	11/29/22 10:04	11/29/22 23:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 23:49*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.9 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/29/22 23:49*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**365**	1.02	mg/kg dry	1	P2K2906	11/29/22 11:44	11/29/22 17:59	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 22:25	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 22:25	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2K2305	11/23/22 09:00	11/28/22 22:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.6 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 22:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.6 %*	*70-130*		*P2K2305*	*11/23/22 09:00*	*11/28/22 22:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/23/22 09:00	11/28/22 22:25	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

SW22

2K22002-79 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/30/22 00:10	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/30/22 00:10	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/30/22 00:10	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P2K2905	11/29/22 10:04	11/30/22 00:10	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P2K2905	11/29/22 10:04	11/30/22 00:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.2 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/30/22 00:10*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		*P2K2905*	*11/29/22 10:04*	*11/30/22 00:10*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1100**	1.08	mg/kg dry	1	P2K2906	11/29/22 11:44	11/29/22 18:39	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P2K2806	11/28/22 11:12	11/28/22 11:15	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P2K2913	11/29/22 09:30	11/29/22 18:38	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P2K2913	11/29/22 09:30	11/29/22 18:38	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P2K2913	11/29/22 09:30	11/29/22 18:38	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.4 %*	*70-130*		*P2K2913*	*11/29/22 09:30*	*11/29/22 18:38*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P2K2913*	*11/29/22 09:30*	*11/29/22 18:38*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/29/22 09:30	11/29/22 18:38	calc	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2203 - * DEFAULT PREP *** **										
Blank (P2K2203-BLK1)				Prepared: 11/22/22 Analyzed: 11/23/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.107*		*"*	*0.120*		*88.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.115*		*"*	*0.120*		*95.7*	*80-120*			
LCS (P2K2203-BS1)				Prepared: 11/22/22 Analyzed: 11/23/22						
Benzene	0.109	0.00100	mg/kg	0.100		109	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		95.1	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.4*	*80-120*			
LCS Dup (P2K2203-BSD1)				Prepared: 11/22/22 Analyzed: 11/23/22						
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120	2.74	20	
Toluene	0.108	0.00100	"	0.100		108	80-120	4.63	20	
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120	4.49	20	
Xylene (p/m)	0.177	0.00200	"	0.200		88.3	80-120	7.42	20	
Xylene (o)	0.104	0.00100	"	0.100		104	80-120	6.45	20	
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.114*		*"*	*0.120*		*95.1*	*80-120*			
Calibration Blank (P2K2203-CCB1)				Prepared: 11/22/22 Analyzed: 11/23/22						
Benzene	0.00		ug/kg							
Toluene	2.14		"							
Ethylbenzene	0.720		"							
Xylene (p/m)	3.14		"							
Xylene (o)	0.810		"							
Surrogate: 1,4-Difluorobenzene	*0.104*		*"*	*0.120*		*86.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.8*	*80-120*			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2203 - * DEFAULT PREP *** **										
Calibration Blank (P2K2203-CCB2)				Prepared: 11/22/22 Analyzed: 11/23/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.140		"							
Xylene (p/m)	0.330		"							
Xylene (o)	0.120		"							
Surrogate: 1,4-Difluorobenzene	*0.107*		*"*	*0.120*		*89.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.6*	*80-120*			
Calibration Check (P2K2203-CCV1)				Prepared: 11/22/22 Analyzed: 11/23/22						
Benzene	0.116	0.00100	mg/kg	0.100		116	80-120			
Toluene	0.118	0.00100	"	0.100		118	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.180	0.00200	"	0.200		90.0	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.109*		*"*	*0.120*		*91.2*	*75-125*			
Calibration Check (P2K2203-CCV2)				Prepared: 11/22/22 Analyzed: 11/23/22						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120			
Toluene	0.114	0.00100	"	0.100		114	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		92.1	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.114*		*"*	*0.120*		*94.7*	*75-125*			
Calibration Check (P2K2203-CCV3)				Prepared: 11/22/22 Analyzed: 11/23/22						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.118	0.00100	"	0.100		118	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		94.8	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*75-125*			

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P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2203 - * DEFAULT PREP *** **										
Matrix Spike (P2K2203-MS1)	**Source: 2K21003-21**			Prepared: 11/22/22 Analyzed: 11/23/22						
Benzene	0.0746	0.00105	mg/kg dry	0.105	ND	70.9	80-120			QM-05
Toluene	0.0738	0.00105	"	0.105	0.00108	69.0	80-120			QM-05
Ethylbenzene	0.0711	0.00105	"	0.105	ND	67.5	80-120			QM-05
Xylene (p/m)	0.115	0.00211	"	0.211	ND	54.8	80-120			QM-05
Xylene (o)	0.0639	0.00105	"	0.105	ND	60.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.126*		*94.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.136*		"	*0.126*		*108*	*80-120*			
Matrix Spike Dup (P2K2203-MSD1)	**Source: 2K21003-21**			Prepared: 11/22/22 Analyzed: 11/23/22						
Benzene	0.0779	0.00105	mg/kg dry	0.105	ND	74.0	80-120	4.31	20	QM-05
Toluene	0.0773	0.00105	"	0.105	0.00108	72.4	80-120	4.70	20	QM-05
Ethylbenzene	0.0760	0.00105	"	0.105	ND	72.2	80-120	6.67	20	QM-05
Xylene (p/m)	0.124	0.00211	"	0.211	ND	59.0	80-120	7.45	20	QM-05
Xylene (o)	0.0691	0.00105	"	0.105	ND	65.7	80-120	7.81	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.126*		*95.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.139*		"	*0.126*		*110*	*80-120*			
Batch P2K2802 - * DEFAULT PREP *** **										
Blank (P2K2802-BLK1)				Prepared & Analyzed: 11/28/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.106*		"	*0.120*		*88.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.120*		*97.8*	*80-120*			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2802 - * DEFAULT PREP *** **										
LCS (P2K2802-BS1)				Prepared & Analyzed: 11/28/22						
Benzene	0.101	0.00100	mg/kg	0.100		101	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.6	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.120*		*95.2*	*80-120*			
LCS Dup (P2K2802-BSD1)				Prepared & Analyzed: 11/28/22						
Benzene	0.103	0.00100	mg/kg	0.100		103	80-120	1.54	20	
Toluene	0.109	0.00100	"	0.100		109	80-120	5.55	20	
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120	4.13	20	
Xylene (p/m)	0.198	0.00200	"	0.200		99.1	80-120	6.78	20	
Xylene (o)	0.118	0.00100	"	0.100		118	80-120	6.90	20	
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.120*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.7*	*80-120*			
Calibration Blank (P2K2802-CCB1)				Prepared & Analyzed: 11/28/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.110		"							
Xylene (p/m)	0.200		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*94.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.105*		"	*0.120*		*87.7*	*80-120*			
Calibration Blank (P2K2802-CCB2)				Prepared & Analyzed: 11/28/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.150		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.104*		"	*0.120*		*86.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.3*	*80-120*			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2802 - * DEFAULT PREP *** **										
Calibration Check (P2K2802-CCV1)				Prepared & Analyzed: 11/28/22						
Benzene	0.107	0.00100	mg/kg	0.100		107	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.7	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*93.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.3*	*75-125*			
Calibration Check (P2K2802-CCV2)				Prepared & Analyzed: 11/28/22						
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.0	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*103*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.107*		"	*0.120*		*88.8*	*75-125*			
Calibration Check (P2K2802-CCV3)				Prepared & Analyzed: 11/28/22						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		92.1	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 1,4-Difluorobenzene	*0.108*		"	*0.120*		*90.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*96.7*	*75-125*			
Matrix Spike (P2K2802-MS1)	**Source: 2K22002-20**			Prepared & Analyzed: 11/28/22						
Benzene	0.0532	0.00101	mg/kg dry	0.101	ND	52.7	80-120			QM-05
Toluene	0.0460	0.00101	"	0.101	ND	45.6	80-120			QM-05
Ethylbenzene	0.0405	0.00101	"	0.101	ND	40.1	80-120			QM-05
Xylene (p/m)	0.0651	0.00202	"	0.202	ND	32.2	80-120			QM-05
Xylene (o)	0.0382	0.00101	"	0.101	ND	37.8	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.111*		"	*0.121*		*91.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.108*		"	*0.121*		*88.8*	*80-120*			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2802 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2K2802-MSD1)	**Source: 2K22002-20**			Prepared & Analyzed: 11/28/22						
Benzene	0.0405	0.00101	mg/kg dry	0.101	ND	40.1	80-120	27.2	20	QM-05
Toluene	0.0352	0.00101	"	0.101	ND	34.9	80-120	26.5	20	QM-05
Ethylbenzene	0.0250	0.00101	"	0.101	ND	24.8	80-120	47.4	20	QM-05
Xylene (p/m)	0.0387	0.00202	"	0.202	ND	19.1	80-120	50.9	20	QM-05
Xylene (o)	0.0212	0.00101	"	0.101	ND	21.0	80-120	57.3	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.108*		*"*	*0.121*		*88.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.121*		*99.2*	*80-120*			
Batch P2K2803 - * DEFAULT PREP *** **										
Blank (P2K2803-BLK1)				Prepared & Analyzed: 11/28/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.106*		*"*	*0.120*		*88.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
LCS (P2K2803-BS1)				Prepared & Analyzed: 11/28/22						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.192	0.00200	"	0.200		96.2	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2803 - * DEFAULT PREP *** **										
LCS Dup (P2K2803-BSD1)				Prepared & Analyzed: 11/28/22						
Benzene	0.112	0.00100	mg/kg	0.100		112	80-120	0.359	20	
Toluene	0.111	0.00100	"	0.100		111	80-120	1.21	20	
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120	1.66	20	
Xylene (p/m)	0.188	0.00200	"	0.200		94.1	80-120	2.30	20	
Xylene (o)	0.111	0.00100	"	0.100		111	80-120	2.47	20	
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.6*	*80-120*			
Calibration Blank (P2K2803-CCB1)				Prepared & Analyzed: 11/28/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.107*		*"*	*0.120*		*88.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.115*		*"*	*0.120*		*96.2*	*80-120*			
Calibration Blank (P2K2803-CCB2)				Prepared: 11/28/22 Analyzed: 11/29/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.120		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.107*		*"*	*0.120*		*88.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Calibration Check (P2K2803-CCV1)				Prepared & Analyzed: 11/28/22						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		92.1	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene	*0.116*		*"*	*0.120*		*96.7*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.108*		*"*	*0.120*		*90.4*	*75-125*			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2803 - * DEFAULT PREP *** **										
Calibration Check (P2K2803-CCV2)				Prepared: 11/28/22 Analyzed: 11/29/22						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		97.8	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.120*		*104*	*75-125*			
Calibration Check (P2K2803-CCV3)				Prepared: 11/28/22 Analyzed: 11/29/22						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.118	0.00100	"	0.100		118	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.1	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.131*		"	*0.120*		*109*	*75-125*			
Matrix Spike (P2K2803-MS1)		**Source: 2K22002-40**		Prepared: 11/28/22 Analyzed: 11/29/22						
Benzene	0.0828	0.00103	mg/kg dry	0.103	ND	80.3	80-120			
Toluene	0.0873	0.00103	"	0.103	ND	84.6	80-120			
Ethylbenzene	0.0935	0.00103	"	0.103	ND	90.7	80-120			
Xylene (p/m)	0.149	0.00206	"	0.206	ND	72.2	80-120			QM-05
Xylene (o)	0.0818	0.00103	"	0.103	ND	79.3	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.124*		*95.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.138*		"	*0.124*		*112*	*80-120*			
Matrix Spike Dup (P2K2803-MSD1)		**Source: 2K22002-40**		Prepared: 11/28/22 Analyzed: 11/29/22						
Benzene	0.0840	0.00103	mg/kg dry	0.103	ND	81.5	80-120	1.46	20	
Toluene	0.0869	0.00103	"	0.103	ND	84.3	80-120	0.462	20	
Ethylbenzene	0.0931	0.00103	"	0.103	ND	90.3	80-120	0.365	20	
Xylene (p/m)	0.147	0.00206	"	0.206	ND	71.4	80-120	1.02	20	QM-05
Xylene (o)	0.0816	0.00103	"	0.103	ND	79.1	80-120	0.265	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.124*		*95.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.137*		"	*0.124*		*110*	*80-120*			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2905 - * DEFAULT PREP *** **										
LCS (P2K2905-BS1)				Prepared & Analyzed: 11/29/22						
Benzene	0.108	0.00100	mg/kg	0.100		108	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 4-Bromofluorobenzene	*0.133*		"	*0.120*		*110*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.107*		"	*0.120*		*89.2*	*80-120*			
LCS Dup (P2K2905-BSD1)				Prepared & Analyzed: 11/29/22						
Benzene	0.107	0.00100	mg/kg	0.100		107	80-120	1.56	20	
Toluene	0.114	0.00100	"	0.100		114	80-120	0.113	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120	1.16	20	
Xylene (p/m)	0.206	0.00200	"	0.200		103	80-120	0.744	20	
Xylene (o)	0.118	0.00100	"	0.100		118	80-120	0.152	20	
Surrogate: 4-Bromofluorobenzene	*0.135*		"	*0.120*		*112*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.107*		"	*0.120*		*89.3*	*80-120*			
Calibration Blank (P2K2905-CCB1)				Prepared & Analyzed: 11/29/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.100		"							
Xylene (p/m)	0.150		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.103*		"	*0.120*		*85.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.130*		"	*0.120*		*108*	*80-120*			
Calibration Blank (P2K2905-CCB2)				Prepared & Analyzed: 11/29/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.120		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.106*		"	*0.120*		*87.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.120*		*97.8*	*80-120*			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2905 - * DEFAULT PREP *** **										
Calibration Blank (P2K2905-CCB3)				Prepared: 11/29/22 Analyzed: 11/30/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.140		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.105*		*"*	*0.120*		*87.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Calibration Check (P2K2905-CCV1)				Prepared & Analyzed: 11/29/22						
Benzene	0.109	0.00100	mg/kg	0.100		109	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 4-Bromofluorobenzene	*0.132*		*"*	*0.120*		*110*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.105*		*"*	*0.120*		*87.3*	*75-125*			
Calibration Check (P2K2905-CCV2)				Prepared & Analyzed: 11/29/22						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.118	0.00100	"	0.100		118	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		98.8	80-120			
Xylene (o)	0.120	0.00100	"	0.100		120	80-120			
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*75-125*			
Calibration Check (P2K2905-CCV3)				Prepared: 11/29/22 Analyzed: 11/30/22						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.120	0.00100	"	0.100		120	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 4-Bromofluorobenzene	*0.130*		*"*	*0.120*		*108*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*92.0*	*75-125*			

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P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2905 - * DEFAULT PREP *** **										
Matrix Spike (P2K2905-MS1)	**Source: 2K22002-60**			Prepared: 11/29/22 Analyzed: 11/30/22						
Benzene	0.0679	0.00102	mg/kg dry	0.102	0.00130	65.3	80-120			QM-05
Toluene	0.0626	0.00102	"	0.102	0.00474	56.7	80-120			QM-05
Ethylbenzene	0.0489	0.00102	"	0.102	ND	47.9	80-120			QM-05
Xylene (p/m)	0.0760	0.00204	"	0.204	0.00116	36.7	80-120			QM-05
Xylene (o)	0.0395	0.00102	"	0.102	ND	38.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.122*		*91.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.122*		*105*	*80-120*			
Matrix Spike Dup (P2K2905-MSD1)	**Source: 2K22002-60**			Prepared: 11/29/22 Analyzed: 11/30/22						
Benzene	0.0792	0.00102	mg/kg dry	0.102	0.00130	76.3	80-120	15.5	20	QM-05
Toluene	0.0754	0.00102	"	0.102	0.00474	69.2	80-120	20.0	20	QM-05
Ethylbenzene	0.0653	0.00102	"	0.102	ND	64.0	80-120	28.7	20	QM-05
Xylene (p/m)	0.102	0.00204	"	0.204	0.00116	49.3	80-120	29.5	20	QM-05
Xylene (o)	0.0538	0.00102	"	0.102	ND	52.7	80-120	30.7	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.136*		*"*	*0.122*		*111*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.122*		*92.0*	*80-120*			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2301 - * DEFAULT PREP *** **										
Blank (P2K2301-BLK1)				Prepared & Analyzed: 11/23/22						
% Moisture	ND	0.1	%							
Duplicate (P2K2301-DUP1)		**Source: 2K22002-07**		Prepared & Analyzed: 11/23/22						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P2K2301-DUP2)		**Source: 2K22002-17**		Prepared & Analyzed: 11/23/22						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Batch P2K2805 - * DEFAULT PREP *** **										
Blank (P2K2805-BLK1)				Prepared & Analyzed: 11/28/22						
Chloride	ND	1.00	mg/kg							
LCS (P2K2805-BS1)				Prepared & Analyzed: 11/28/22						
Chloride	20.4		mg/kg	20.0		102	90-110			
LCS Dup (P2K2805-BSD1)				Prepared & Analyzed: 11/28/22						
Chloride	20.1		mg/kg	20.0		100	90-110	1.61	10	
Calibration Blank (P2K2805-CCB1)				Prepared & Analyzed: 11/28/22						
Chloride	0.0610		mg/kg							
Calibration Blank (P2K2805-CCB2)				Prepared & Analyzed: 11/28/22						
Chloride	0.00		mg/kg							
Calibration Check (P2K2805-CCV1)				Prepared & Analyzed: 11/28/22						
Chloride	20.5		mg/kg	20.0		102	90-110			

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P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2805 - * DEFAULT PREP *** **										
Calibration Check (P2K2805-CCV2)				Prepared & Analyzed: 11/28/22						
Chloride	20.8		mg/kg	20.0		104	90-110			
Calibration Check (P2K2805-CCV3)				Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	21.0		mg/kg	20.0		105	90-110			
Matrix Spike (P2K2805-MS1)		**Source: 2K21010-02**		Prepared & Analyzed: 11/28/22						
Chloride	5010	28.4	mg/kg dry	1420	3850	81.5	80-120			
Matrix Spike (P2K2805-MS2)		**Source: 2K22002-08**		Prepared & Analyzed: 11/28/22						
Chloride	2150	10.2	mg/kg dry	510	1630	101	80-120			
Matrix Spike Dup (P2K2805-MSD1)		**Source: 2K21010-02**		Prepared & Analyzed: 11/28/22						
Chloride	5840	28.4	mg/kg dry	1420	3850	140	80-120	15.3	20	QM-05
Matrix Spike Dup (P2K2805-MSD2)		**Source: 2K22002-08**		Prepared & Analyzed: 11/28/22						
Chloride	2100	10.2	mg/kg dry	510	1630	91.0	80-120	2.30	20	
Batch P2K2806 - * DEFAULT PREP *** **										
Blank (P2K2806-BLK1)				Prepared & Analyzed: 11/28/22						
% Moisture	ND	0.1	%							
Blank (P2K2806-BLK2)				Prepared & Analyzed: 11/28/22						
% Moisture	ND	0.1	%							
Blank (P2K2806-BLK3)				Prepared & Analyzed: 11/28/22						
% Moisture	ND	0.1	%							

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P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2806 - * DEFAULT PREP *** **										
Duplicate (P2K2806-DUP1)		**Source: 2K22002-32**		Prepared & Analyzed: 11/28/22						
% Moisture	6.0	0.1	%		4.0			40.0	20	R3
Duplicate (P2K2806-DUP2)		**Source: 2K22002-42**		Prepared & Analyzed: 11/28/22						
% Moisture	3.0	0.1	%		2.0			40.0	20	R3
Duplicate (P2K2806-DUP3)		**Source: 2K22002-57**		Prepared & Analyzed: 11/28/22						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P2K2806-DUP4)		**Source: 2K22002-67**		Prepared & Analyzed: 11/28/22						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Batch P2K2807 - * DEFAULT PREP *** **										
Blank (P2K2807-BLK1)				Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	ND	1.00	mg/kg							
LCS (P2K2807-BS1)				Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	21.3		mg/kg	20.0		106	90-110			
LCS Dup (P2K2807-BSD1)				Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	21.4		mg/kg	20.0		107	90-110	0.773	10	
Calibration Blank (P2K2807-CCB1)				Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	0.114		mg/kg							
Calibration Blank (P2K2807-CCB2)				Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	0.149		mg/kg							

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2807 - * DEFAULT PREP *** **										
Calibration Check (P2K2807-CCV1)				Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	21.0		mg/kg	20.0		105	90-110			
Calibration Check (P2K2807-CCV2)				Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	21.6		mg/kg	20.0		108	90-110			
Calibration Check (P2K2807-CCV3)				Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	21.5		mg/kg	20.0		108	90-110			
Matrix Spike (P2K2807-MS1)		**Source: 2K22002-19**		Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	982	5.10	mg/kg dry	255	735	96.9	80-120			
Matrix Spike (P2K2807-MS2)		**Source: 2K22002-28**		Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	1110	10.4	mg/kg dry	521	625	92.4	80-120			
Matrix Spike Dup (P2K2807-MSD1)		**Source: 2K22002-19**		Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	959	5.10	mg/kg dry	255	735	87.7	80-120	2.44	20	
Matrix Spike Dup (P2K2807-MSD2)		**Source: 2K22002-28**		Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	1150	10.4	mg/kg dry	521	625	101	80-120	3.92	20	
Batch P2K2809 - * DEFAULT PREP *** **										
Blank (P2K2809-BLK1)				Prepared & Analyzed: 11/28/22						
Chloride	ND	1.00	mg/kg							
LCS (P2K2809-BS1)				Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	19.7		mg/kg	20.0		98.6	90-110			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2809 - * DEFAULT PREP *** **										
LCS Dup (P2K2809-BSD1)				Prepared: 11/28/22 Analyzed: 11/29/22						
Chloride	19.8		mg/kg	20.0		99.0	90-110	0.309	10	
Calibration Blank (P2K2809-CCB1)				Prepared & Analyzed: 11/28/22						
Chloride	0.0500		mg/kg							
Calibration Blank (P2K2809-CCB2)				Prepared & Analyzed: 11/28/22						
Chloride	0.0520		mg/kg							
Calibration Check (P2K2809-CCV1)				Prepared & Analyzed: 11/28/22						
Chloride	21.3		mg/kg	20.0		106	90-110			
Calibration Check (P2K2809-CCV2)				Prepared & Analyzed: 11/28/22						
Chloride	21.5		mg/kg	20.0		107	90-110			
Calibration Check (P2K2809-CCV3)				Prepared & Analyzed: 11/28/22						
Chloride	21.5		mg/kg	20.0		108	90-110			
Matrix Spike (P2K2809-MS1)		**Source: 2K22002-38**		Prepared & Analyzed: 11/28/22						
Chloride	1700	5.10	mg/kg dry	102	1610	81.6	80-120			
Matrix Spike (P2K2809-MS2)		**Source: 2K22002-48**		Prepared & Analyzed: 11/28/22						
Chloride	2140	5.05	mg/kg dry	101	1960	173	80-120			QM-05
Matrix Spike Dup (P2K2809-MSD1)		**Source: 2K22002-38**		Prepared & Analyzed: 11/28/22						
Chloride	1720	5.10	mg/kg dry	102	1610	107	80-120	1.52	20	
Matrix Spike Dup (P2K2809-MSD2)		**Source: 2K22002-48**		Prepared & Analyzed: 11/28/22						
Chloride	2130	5.05	mg/kg dry	101	1960	169	80-120	0.201	20	QM-05

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2904 - * DEFAULT PREP *** **										
Blank (P2K2904-BLK1)				Prepared & Analyzed: 11/29/22						
Chloride	ND	1.00	mg/kg							
LCS (P2K2904-BS1)				Prepared & Analyzed: 11/29/22						
Chloride	20.3		mg/kg	20.0		102	90-110			
LCS Dup (P2K2904-BSD1)				Prepared & Analyzed: 11/29/22						
Chloride	20.4		mg/kg	20.0		102	90-110	0.500	10	
Calibration Blank (P2K2904-CCB1)				Prepared & Analyzed: 11/29/22						
Chloride	0.120		mg/kg							
Calibration Blank (P2K2904-CCB2)				Prepared & Analyzed: 11/29/22						
Chloride	0.113		mg/kg							
Calibration Check (P2K2904-CCV1)				Prepared & Analyzed: 11/29/22						
Chloride	21.0		mg/kg	20.0		105	90-110			
Calibration Check (P2K2904-CCV2)				Prepared & Analyzed: 11/29/22						
Chloride	21.3		mg/kg	20.0		107	90-110			
Calibration Check (P2K2904-CCV3)				Prepared & Analyzed: 11/29/22						
Chloride	21.0		mg/kg	20.0		105	90-110			
Matrix Spike (P2K2904-MS1)		**Source: 2K22002-58**		Prepared & Analyzed: 11/29/22						
Chloride	5810	10.1	mg/kg dry	505	5210	119	80-120			
Matrix Spike (P2K2904-MS2)		**Source: 2K22002-68**		Prepared & Analyzed: 11/29/22						
Chloride	4820	10.9	mg/kg dry	543	4110	130	80-120			QM-05

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2904 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2K2904-MSD1)	**Source: 2K22002-58**			Prepared & Analyzed: 11/29/22						
Chloride	5820	10.1	mg/kg dry	505	5210	121	80-120	0.170	20	QM-05
Matrix Spike Dup (P2K2904-MSD2)	**Source: 2K22002-68**			Prepared & Analyzed: 11/29/22						
Chloride	4800	10.9	mg/kg dry	543	4110	127	80-120	0.341	20	QM-05
Batch P2K2906 - * DEFAULT PREP *** **										
Blank (P2K2906-BLK1)				Prepared & Analyzed: 11/29/22						
Chloride	ND	1.00	mg/kg							
LCS (P2K2906-BS1)				Prepared & Analyzed: 11/29/22						
Chloride	20.5		mg/kg	20.0		102	90-110			
LCS Dup (P2K2906-BSD1)				Prepared & Analyzed: 11/29/22						
Chloride	20.0		mg/kg	20.0		100	90-110	2.14	10	
Calibration Blank (P2K2906-CCB1)				Prepared & Analyzed: 11/29/22						
Chloride	0.0660		mg/kg							
Calibration Blank (P2K2906-CCB2)				Prepared & Analyzed: 11/29/22						
Chloride	0.00		mg/kg							
Calibration Check (P2K2906-CCV1)				Prepared & Analyzed: 11/29/22						
Chloride	21.0		mg/kg	20.0		105	90-110			
Calibration Check (P2K2906-CCV2)				Prepared & Analyzed: 11/29/22						
Chloride	21.4		mg/kg	20.0		107	90-110			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2906 - * DEFAULT PREP *** **										
Calibration Check (P2K2906-CCV3)				Prepared & Analyzed: 11/29/22						
Chloride	21.7		mg/kg	20.0		108	90-110			
Matrix Spike (P2K2906-MS1)		**Source: 2K22002-78**		Prepared & Analyzed: 11/29/22						
Chloride	521	1.02	mg/kg dry	255	365	61.4	80-120			QM-05
Matrix Spike (P2K2906-MS2)		**Source: 2K22003-15**		Prepared & Analyzed: 11/29/22						
Chloride	2200	5.68	mg/kg dry	284	1880	115	80-120			
Matrix Spike Dup (P2K2906-MSD1)		**Source: 2K22002-78**		Prepared & Analyzed: 11/29/22						
Chloride	598	1.02	mg/kg dry	255	365	91.4	80-120	13.7	20	
Matrix Spike Dup (P2K2906-MSD2)		**Source: 2K22003-15**		Prepared & Analyzed: 11/29/22						
Chloride	2170	5.68	mg/kg dry	284	1880	105	80-120	1.27	20	

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2302 - TX 1005										
Blank (P2K2302-BLK1)				Prepared & Analyzed: 11/23/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*90.8*		*"*	*100*		*90.8*	*70-130*			
Surrogate: o-Terphenyl	*48.4*		*"*	*50.0*		*96.8*	*70-130*			
LCS (P2K2302-BS1)				Prepared & Analyzed: 11/23/22						
C6-C12	837	25.0	mg/kg	1000		83.7	75-125			
>C12-C28	927	25.0	"	1000		92.7	75-125			
Surrogate: 1-Chlorooctane	*118*		*"*	*100*		*118*	*70-130*			
Surrogate: o-Terphenyl	*50.1*		*"*	*50.0*		*100*	*70-130*			
LCS Dup (P2K2302-BSD1)				Prepared & Analyzed: 11/23/22						
C6-C12	870	25.0	mg/kg	1000		87.0	75-125	3.86	20	
>C12-C28	937	25.0	"	1000		93.7	75-125	1.12	20	
Surrogate: 1-Chlorooctane	*98.2*		*"*	*100*		*98.2*	*70-130*			
Surrogate: o-Terphenyl	*60.0*		*"*	*50.0*		*120*	*70-130*			
Calibration Check (P2K2302-CCV1)				Prepared & Analyzed: 11/23/22						
C6-C12	440	25.0	mg/kg	500		88.0	85-115			
>C12-C28	496	25.0	"	500		99.3	85-115			
Surrogate: 1-Chlorooctane	*113*		*"*	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*52.1*		*"*	*50.0*		*104*	*70-130*			
Calibration Check (P2K2302-CCV2)				Prepared & Analyzed: 11/23/22						
C6-C12	455	25.0	mg/kg	500		91.0	85-115			
>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	*116*		*"*	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*51.5*		*"*	*50.0*		*103*	*70-130*			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2302 - TX 1005										
Duplicate (P2K2302-DUP1)	**Source: 2K17013-02**			Prepared & Analyzed: 11/23/22						
C6-C12	157	129	mg/kg dry		129			19.9	20	
>C12-C28	2230	129	"		2160			3.29	20	
Surrogate: 1-Chlorooctane	*86.9*		*"*	*103*		*84.2*	*70-130*			
Surrogate: o-Terphenyl	*47.8*		*"*	*51.5*		*92.7*	*70-130*			
Batch P2K2303 - TX 1005										
Blank (P2K2303-BLK1)				Prepared & Analyzed: 11/23/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*89.2*		*"*	*100*		*89.2*	*70-130*			
Surrogate: o-Terphenyl	*48.3*		*"*	*50.0*		*96.5*	*70-130*			
LCS (P2K2303-BS1)				Prepared & Analyzed: 11/23/22						
C6-C12	832	25.0	mg/kg	1000		83.2	75-125			
>C12-C28	960	25.0	"	1000		96.0	75-125			
Surrogate: 1-Chlorooctane	*99.6*		*"*	*100*		*99.6*	*70-130*			
Surrogate: o-Terphenyl	*58.8*		*"*	*50.0*		*118*	*70-130*			
LCS Dup (P2K2303-BSD1)				Prepared & Analyzed: 11/23/22						
C6-C12	833	25.0	mg/kg	1000		83.3	75-125	0.0300	20	
>C12-C28	945	25.0	"	1000		94.5	75-125	1.65	20	
Surrogate: 1-Chlorooctane	*95.6*		*"*	*100*		*95.6*	*70-130*			
Surrogate: o-Terphenyl	*50.3*		*"*	*50.0*		*101*	*70-130*			
Calibration Check (P2K2303-CCV1)				Prepared & Analyzed: 11/23/22						
C6-C12	450	25.0	mg/kg	500		89.9	85-115			
>C12-C28	518	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	*115*		*"*	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*52.3*		*"*	*50.0*		*105*	*70-130*			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2303 - TX 1005										
Calibration Check (P2K2303-CCV2)				Prepared: 11/23/22 Analyzed: 11/24/22						
C6-C12	444	25.0	mg/kg	500		88.9	85-115			
>C12-C28	523	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	*113*		*"*	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*53.0*		*"*	*50.0*		*106*	*70-130*			
Matrix Spike (P2K2303-MS1)		**Source: 2K22002-38**		Prepared: 11/23/22 Analyzed: 11/24/22						
C6-C12	746	25.5	mg/kg dry	1020	9.70	72.1	75-125			QM-05
>C12-C28	826	25.5	"	1020	ND	81.0	75-125			
Surrogate: 1-Chlorooctane	*117*		*"*	*102*		*115*	*70-130*			
Surrogate: o-Terphenyl	*46.9*		*"*	*51.0*		*91.9*	*70-130*			
Matrix Spike Dup (P2K2303-MSD1)		**Source: 2K22002-38**		Prepared: 11/23/22 Analyzed: 11/24/22						
C6-C12	753	25.5	mg/kg dry	1020	9.70	72.9	75-125	1.03	20	QM-05
>C12-C28	847	25.5	"	1020	ND	83.0	75-125	2.42	20	
Surrogate: 1-Chlorooctane	*119*		*"*	*102*		*117*	*70-130*			
Surrogate: o-Terphenyl	*45.9*		*"*	*51.0*		*90.0*	*70-130*			
Batch P2K2304 - TX 1005										
Blank (P2K2304-BLK1)				Prepared: 11/23/22 Analyzed: 11/24/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*89.6*		*"*	*100*		*89.6*	*70-130*			
Surrogate: o-Terphenyl	*47.3*		*"*	*50.0*		*94.5*	*70-130*			
LCS (P2K2304-BS1)				Prepared: 11/23/22 Analyzed: 11/24/22						
C6-C12	849	25.0	mg/kg	1000		84.9	75-125			
>C12-C28	938	25.0	"	1000		93.8	75-125			
Surrogate: 1-Chlorooctane	*100*		*"*	*100*		*100*	*70-130*			
Surrogate: o-Terphenyl	*59.8*		*"*	*50.0*		*120*	*70-130*			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2304 - TX 1005										
LCS Dup (P2K2304-BSD1)				Prepared: 11/23/22 Analyzed: 11/24/22						
C6-C12	867	25.0	mg/kg	1000		86.7	75-125	2.04	20	
>C12-C28	927	25.0	"	1000		92.7	75-125	1.21	20	
Surrogate: 1-Chlorooctane	*97.7*		*"*	*100*		*97.7*	*70-130*			
Surrogate: o-Terphenyl	*59.6*		*"*	*50.0*		*119*	*70-130*			
Calibration Check (P2K2304-CCV1)				Prepared: 11/23/22 Analyzed: 11/24/22						
C6-C12	458	25.0	mg/kg	500		91.6	85-115			
>C12-C28	515	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	*115*		*"*	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*52.4*		*"*	*50.0*		*105*	*70-130*			
Calibration Check (P2K2304-CCV2)				Prepared: 11/23/22 Analyzed: 11/24/22						
C6-C12	457	25.0	mg/kg	500		91.5	85-115			
>C12-C28	510	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	*113*		*"*	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*51.0*		*"*	*50.0*		*102*	*70-130*			
Calibration Check (P2K2304-CCV3)				Prepared: 11/23/22 Analyzed: 11/28/22						
C6-C12	471	25.0	mg/kg	500		94.2	85-115			
>C12-C28	547	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	*119*		*"*	*100*		*119*	*70-130*			
Surrogate: o-Terphenyl	*54.4*		*"*	*50.0*		*109*	*70-130*			
Matrix Spike (P2K2304-MS1)	**Source: 2K22002-58**			Prepared: 11/23/22 Analyzed: 11/28/22						
C6-C12	708	25.3	mg/kg dry	1010	ND	70.1	75-125			QM-05
>C12-C28	809	25.3	"	1010	ND	80.1	75-125			
Surrogate: 1-Chlorooctane	*112*		*"*	*101*		*111*	*70-130*			
Surrogate: o-Terphenyl	*43.2*		*"*	*50.5*		*85.6*	*70-130*			

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Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2304 - TX 1005										
Matrix Spike Dup (P2K2304-MSD1)	**Source: 2K22002-58**			Prepared: 11/23/22 Analyzed: 11/28/22						
C6-C12	712	25.3	mg/kg dry	1010	ND	70.5	75-125	0.494	20	QM-05
>C12-C28	785	25.3	"	1010	ND	77.7	75-125	3.13	20	
Surrogate: 1-Chlorooctane	*115*		*"*	*101*		*114*	*70-130*			
Surrogate: o-Terphenyl	*47.5*		*"*	*50.5*		*94.1*	*70-130*			
Batch P2K2305 - TX 1005										
Blank (P2K2305-BLK1)				Prepared: 11/23/22 Analyzed: 11/28/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*96.4*		*"*	*100*		*96.4*	*70-130*			
Surrogate: o-Terphenyl	*51.1*		*"*	*50.0*		*102*	*70-130*			
LCS (P2K2305-BS1)				Prepared: 11/23/22 Analyzed: 11/28/22						
C6-C12	874	25.0	mg/kg	1000		87.4	75-125			
>C12-C28	940	25.0	"	1000		94.0	75-125			
Surrogate: 1-Chlorooctane	*104*		*"*	*100*		*104*	*70-130*			
Surrogate: o-Terphenyl	*53.5*		*"*	*50.0*		*107*	*70-130*			
LCS Dup (P2K2305-BSD1)				Prepared: 11/23/22 Analyzed: 11/28/22						
C6-C12	870	25.0	mg/kg	1000		87.0	75-125	0.511	20	
>C12-C28	923	25.0	"	1000		92.3	75-125	1.78	20	
Surrogate: 1-Chlorooctane	*101*		*"*	*100*		*101*	*70-130*			
Surrogate: o-Terphenyl	*56.5*		*"*	*50.0*		*113*	*70-130*			
Calibration Check (P2K2305-CCV1)				Prepared: 11/23/22 Analyzed: 11/28/22						
C6-C12	464	25.0	mg/kg	500		92.7	85-115			
>C12-C28	511	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	*122*		*"*	*100*		*122*	*70-130*			
Surrogate: o-Terphenyl	*53.6*		*"*	*50.0*		*107*	*70-130*			

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2305 - TX 1005										
Calibration Check (P2K2305-CCV2)				Prepared: 11/23/22 Analyzed: 11/28/22						
C6-C12	470	25.0	mg/kg	500		94.0	85-115			
>C12-C28	528	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	*125*		*"*	*100*		*125*	*70-130*			
Surrogate: o-Terphenyl	*57.5*		*"*	*50.0*		*115*	*70-130*			
Calibration Check (P2K2305-CCV3)				Prepared: 11/23/22 Analyzed: 11/28/22						
C6-C12	455	25.0	mg/kg	500		91.0	85-115			
>C12-C28	498	25.0	"	500		99.6	85-115			
Surrogate: 1-Chlorooctane	*120*		*"*	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*56.5*		*"*	*50.0*		*113*	*70-130*			
Matrix Spike (P2K2305-MS1)		**Source: 2K22002-78**		Prepared: 11/23/22 Analyzed: 11/28/22						
C6-C12	733	25.5	mg/kg dry	1020	ND	71.8	75-125			QM-05
>C12-C28	809	25.5	"	1020	ND	79.3	75-125			
Surrogate: 1-Chlorooctane	*106*		*"*	*102*		*104*	*70-130*			
Surrogate: o-Terphenyl	*39.7*		*"*	*51.0*		*77.7*	*70-130*			
Matrix Spike Dup (P2K2305-MSD1)		**Source: 2K22002-78**		Prepared: 11/23/22 Analyzed: 11/28/22						
C6-C12	764	25.5	mg/kg dry	1020	ND	74.8	75-125	4.12	20	QM-05
>C12-C28	825	25.5	"	1020	ND	80.8	75-125	1.90	20	
Surrogate: 1-Chlorooctane	*109*		*"*	*102*		*107*	*70-130*			
Surrogate: o-Terphenyl	*41.9*		*"*	*51.0*		*82.2*	*70-130*			
Batch P2K2913 - TX 1005										
LCS (P2K2913-BS1)				Prepared & Analyzed: 11/29/22						
C6-C12	812	25.0	mg/kg	1000		81.2	75-125			
>C12-C28	849	25.0	"	1000		84.9	75-125			
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*61.6*		*"*	*50.0*		*123*	*70-130*			

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2K2913 - TX 1005										
LCS Dup (P2K2913-BSD1)				Prepared & Analyzed: 11/29/22						
C6-C12	837	25.0	mg/kg	1000		83.7	75-125	2.98	20	
>C12-C28	897	25.0	"	1000		89.7	75-125	5.49	20	
Surrogate: 1-Chlorooctane	*110*		*"*	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*57.5*		*"*	*50.0*		*115*	*70-130*			
Calibration Check (P2K2913-CCV1)				Prepared: 11/29/22 Analyzed: 11/30/22						
C6-C12	444	25.0	mg/kg	500		88.7	85-115			
>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	*117*		*"*	*100*		*117*	*70-130*			
Surrogate: o-Terphenyl	*54.5*		*"*	*50.0*		*109*	*70-130*			
Calibration Check (P2K2913-CCV2)				Prepared: 11/29/22 Analyzed: 11/30/22						
C6-C12	428	25.0	mg/kg	500		85.5	85-115			
>C12-C28	492	25.0	"	500		98.3	85-115			
Surrogate: 1-Chlorooctane	*116*		*"*	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*53.4*		*"*	*50.0*		*107*	*70-130*			
Calibration Check (P2K2913-CCV3)				Prepared: 11/29/22 Analyzed: 11/30/22						
C6-C12	426	25.0	mg/kg	500		85.2	85-115			
>C12-C28	478	25.0	"	500		95.5	85-115			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*49.9*		*"*	*50.0*		*99.8*	*70-130*			
Duplicate (P2K2913-DUP1)	**Source: 2K22004-08**			Prepared: 11/29/22 Analyzed: 11/30/22						
C6-C12	9530	266	mg/kg dry		952			164	20	R3
>C12-C28	38300	266	"		3900			163	20	R3
Surrogate: 1-Chlorooctane	*124*		*"*	*106*		*117*	*70-130*			
Surrogate: o-Terphenyl	*56.7*		*"*	*53.2*		*107*	*70-130*			

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
NPBEL C(	Chain of Custody was not generated at PBELAB
BULK	Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 11/30/2022

Brent Barron, Laboratory Director/Technical Director

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Boo Radley 701H 702H 703H
P.O. Box 50685	Project Number: 21-0105-08
Midland TX, 79710	Project Manager: Mark Larson

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If you have received this material in error, please notify us immediately at 432-686-7235.

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C.NM № 1722

CHAIN-OF-CUSTOD

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

DATE: 11-22-22 PAGE 1 OF 6

PO#: LAB WORK ORDER#: 2K22002

PROJECT LOCATION OR NAME: Boo Radley 701H, 702H, 703H

LAI PROJECT #: 21-0105-08 COLLECTOR: JH

Data Reported to:

TRRP report? ☐ Yes ☑ No

TIME ZONE: Time zone/State: MNT/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 VOC ☐	TCLP - METALS (RCRA) ☐	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 ☐	PECHLORATE ☐	CHLORIDES ☑	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C1	1	11-17-22	1000	S	1				X		X				X	X	X																									X				
C2	2	"	1005	"	"				"		"				"	"	"																									"				
C3	3		1010																																										
C4	4		1015																																										
C5	5		1020																																										
SW1	6		1025																																										
SW2	7		1030																																										
SW3	8		1035																																										
SW4	9		1040																																										
SW5	10		1045																																										
SW6	11		1100																																										
C6	12		1105																																										
C7	13		1110																																										
C8	14		1115																																										
C9	15	11-17-22	1120	S	1				X		X				X	X	X																									X				

TOTAL 15

RELINQUISHED BY:(Signature) Jason Hernandez DATE/TIME 11-22-22 8:12 RECEIVED BY: (Signature)

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

RELINQUISHED BY:(Signature) DATE/TIME 11-2222 8:2 RECEIVED BY: (Signature)

LABORATORY:

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

LABORATORY USE ONLY:
RECEIVING TEMP: -11.2+1 10.2 CF(1 THERM#:
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Received by OCD: 7/19/2023 8:51:08 AM
Released to Imaging: 1/9/2024 10:58:26 AM

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Nº 1723

CHAIN-OF-CUSTOD

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

Data Reported to:

DATE: 11-22-22 PAGE 2 OF 6

PO#: LAB WORK ORDER#: 2K22002

PROJECT LOCATION OR NAME: Boo Radley 701H, 702H, 703H

LAI PROJECT #: 21-0105-08 COLLECTOR: JH

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 ☐	CHLORIDE ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C10	16	11-17-22	1125	S	1				X		X			X	X	X																									X		
C11	17		1130																																								
C12	18		1135																																								
C13	19		1140																																								
SW7	20		1145																																								
SW8	21		~~1150~~ 1200																																								
C14	22		1155																																								
C15	23		1200																																								
C16	24		1205																																								
C17	25		1210																																								
C18	26		1215																																								
C19	27		1220																																								
C20	28		1225																																								
C21	29		1230																																								
C22	30	11-17-22	1235	S	1				X		X			X	X	X																									X		

TOTAL 15

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
	11-22-22 / 8:12	
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
	11-22-22 0812	
LABORATORY:		

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

LABORATORY USE ONLY:
RECEIVING TEMP: 10.2/10.2 THERM#:
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

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Nº 1724

CHAIN-OF-CUSTOD

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

Data Reported to:

DATE: 11-22-22 PAGE 3 OF 6

PO#:

LAB WORK ORDER#: 2K22002

PROJECT LOCATION OR NAME: Boo Radley 701H, 702H, 703H

LAI PROJECT #: 21-0105-08 COLLECTOR: SH

TRRP report? ☐ Yes ☐ No

TIME ZONE: Time zone/State:

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 ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C23	31	11-17-22	1240	S	1				X		X		X	X	X															X	
C24	32		1245																												
C25	33		1300																												
SW9	34		1305																												
SW10	35		1310																												
SW11	36		1315																												
SW12	37		1320																												
SW13	38		1325																												
SW14	39		1330																												
SW15	40		~~1330~~ 1335																												
SW16	41		1340																												
SW17	42		1345																												
SW18	43	11-17-22	1400	S	1				X		X		X	X	X															X	
C26	44	11-17-22	1405	S	1				X		X		X	X	X															X	
C27	45	11-17-22	1410	S	1				X		X		X	X	X															X	

TOTAL 15

RELINQUISHED BY:(Signature) DATE/TIME 11-22-22 / 8:12 RECEIVED BY: (Signature)

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

RELINQUISHED BY:(Signature) DATE/TIME 11-22-22 0812 RECEIVED BY: (Signature)

LABORATORY:

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

LABORATORY USE ONLY:
RECEIVING TEMP: 11.2 + 10.2 CF THERM#:
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

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C.NM

№ 1725

CHAIN-OF-CUSTOD

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

Data Reported to:

DATE: 11-22-22 PAGE 4 OF 6

PO#:

LAB WORK ORDER#: 2K22002

PROJECT LOCATION OR NAME: Boo Radley 701H, 702H, 703H

LAI PROJECT #: 21-0105-08 COLLECTOR: JH

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNI/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
C28	46	11-17-22	1415	S	1				X				X	X	X														X		
C29	47		1420																												
C30	48		1425																												
C31	49		1430																												
C32	50		1435																												
C33	51		1440																												
C34	52		1445																												
C35	53		1450																												
C36	54		1455																												
C37	55		1500																												
SW19	56		1505																												
SW20	57	11-17-22	1510	S	1				X																						
C38	58	11-18-22	900	S	1				X																						
C39	59	1	905	S	1				X																						
C40	60	11-18-22	910	S	1				X				X	X	X														X		
TOTAL	15																														

RELINQUISHED BY:(Signature) DATE/TIME 11-22-22/8:12 RECEIVED BY: (Signature)

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

RELINQUISHED BY:(Signature) DATE/TIME 11-22-22 612 RECEIVED BY: (Signature)

LABORATORY:

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

LABORATORY USE ONLY: +1.0 -1.2 CF4
RECEIVING TEMP: 11.2 THERM#:
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

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C:NM Nº 1726

CHAIN-OF-CUSTOD

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

Data Reported to:

DATE: 11-22-22 PAGE 5 OF 6

PO#: LAB WORK ORDER#: 2K2200852

PROJECT LOCATION OR NAME: Bass Radley 701H, 702H, 703H

LAI PROJECT #: 21-0105-08 COLLECTOR: JH

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	FIELD NOTES
SW21	61	11-18-22	915	S	1				X		X X X X	
C41	62		920									
C42	63		925									
C43	64		930									
C44	65		935									
C45	66		940									
C46	67		945									
C47	68		950									
C48	69		955									
C49	70		1000									
C50	71		1010									
C51	72		1015									
C52	73		1020									
C53	74		1025									
C54	75	11-18-22	1030	S	1				X		X X X X	

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 ☐

TOTAL 15

RELINQUISHED BY:(Signature) DATE/TIME 11-22-22/8:12 RECEIVED BY: (Signature)

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

RELINQUISHED BY:(Signature) DATE/TIME 11-22-22 8:12 RECEIVED BY: (Signature)

LABORATORY:

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

LABORATORY USE ONLY:
RECEIVING TEMP: 11.2 +10 CFU THERM#:
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

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C.NM

Nº 1727

CHAIN-OF-CUSTOD

Page 117 of 117

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

Data Reported to:

DATE: _____ PAGE 6 OF 6

PO#: _____ LAB WORK ORDER#: 2K22002

PROJECT LOCATION OR NAME: Boo Radley 701H, 702H, 703H

LAI PROJECT #: 21-0105-08 COLLECTOR: JH

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
CS5	76	11-18-22	1030	S	1				X		X		X	X	X														X		
CS6	77	"	1035	"	1				"		X		X	X	X														X		
CS7	78	"	1040	"	1				"		X		X	X	X														X		
SW22	79	11-18-22	1045	S	1				X		X		X	X	X														X		

TOTAL 4

RELINQUISHED BY:(Signature) _____ DATE/TIME 11-22-22/8:12 RECEIVED BY: (Signature) _____

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

RELINQUISHED BY:(Signature) _____ DATE/TIME 11-19-22 812 RECEIVED BY: (Signature) _____

LABORATORY: _____

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

LABORATORY USE ONLY:
RECEIVING TEMP: 11.2+1.0 10.2 CFU THERM#: _____
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 12/19/2022 4:28:07 PM

JOB DESCRIPTION

BOO RADLEY
SDG NUMBER 21-0105-08

JOB NUMBER

890-3585-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 AM

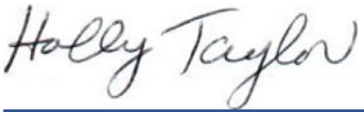
my EOL

Eurofins Carlsbad

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
12/19/2022 4:28:07 PM

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

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Laboratory Job ID: 890-3585-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-3585-1
Project/Site: BOO RADLEY SDG: 21-0105-08

Qualifiers

GC VOA

Qualifier	Qualifier Description
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: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Job ID: 890-3585-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3585-1

Receipt
The samples were received on 12/6/2022 3:24 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 3.6°C

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-41898 and analytical batch 880-41994 was outside the control limits.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-41898 and analytical batch 880-41994 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 sample was outside control limits: SW-25 0-1.5 (890-3585-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41386 and analytical batch 880-41561 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-26 0-1.5 (890-3585-12). 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: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Client Sample ID: C-58 1.5

Date Collected: 12/05/22 12:08
Date Received: 12/06/22 15:24
Sample Depth: 1.5

Lab Sample ID: 890-3585-1
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		12/15/22 10:12	12/16/22 11:48	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		12/15/22 10:12	12/16/22 11:48	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		12/15/22 10:12	12/16/22 11:48	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/15/22 10:12	12/16/22 11:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/15/22 10:12	12/16/22 11:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/15/22 10:12	12/16/22 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/15/22 10:12*	*12/16/22 11:48*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/15/22 10:12*	*12/16/22 11:48*	*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			12/16/22 14:23	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			12/13/22 09:37	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		12/08/22 15:23	12/12/22 11:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 11:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 11:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*12/08/22 15:23*	*12/12/22 11:08*	*1*
o-Terphenyl (Surr)	*130*		*70 - 130*	*12/08/22 15:23*	*12/12/22 11:08*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2220**		25.3		mg/Kg			12/14/22 08:40	5

Client Sample ID: C-59 1.5

Date Collected: 12/05/22 12:13
Date Received: 12/06/22 15:24
Sample Depth: 1.5

Lab Sample ID: 890-3585-2
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		12/15/22 10:12	12/16/22 12:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/15/22 10:12	12/16/22 12:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/15/22 10:12	12/16/22 12:08	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		12/15/22 10:12	12/16/22 12:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/15/22 10:12	12/16/22 12:08	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/15/22 10:12	12/16/22 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/15/22 10:12*	*12/16/22 12:08*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-3585-1
Project/Site: BOO RADLEY SDG: 21-0105-08

Client Sample ID: C-59 1.5 Lab Sample ID: 890-3585-2

Date Collected: 12/05/22 12:13 **Matrix: Solid**
Date Received: 12/06/22 15:24
Sample Depth: 1.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/15/22 10:12*	*12/16/22 12:08*	*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			12/16/22 14:23	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			12/13/22 09:37	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		12/08/22 15:23	12/12/22 12:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/22 15:23	12/12/22 12:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/22 15:23	12/12/22 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*12/08/22 15:23*	*12/12/22 12:11*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*12/08/22 15:23*	*12/12/22 12:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1750**		24.8	mg/Kg			12/14/22 08:47	5

Client Sample ID: C-60 1.5 Lab Sample ID: 890-3585-3

Date Collected: 12/05/22 12:15 **Matrix: Solid**
Date Received: 12/06/22 15:24
Sample Depth: 1.5

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		12/15/22 10:12	12/16/22 12:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/15/22 10:12	12/16/22 12:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/15/22 10:12	12/16/22 12:29	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/15/22 10:12	12/16/22 12:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/15/22 10:12	12/16/22 12:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/15/22 10:12	12/16/22 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/15/22 10:12*	*12/16/22 12:29*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*12/15/22 10:12*	*12/16/22 12:29*	*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			12/16/22 14:23	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			12/13/22 09:37	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Client Sample ID: C-60 1.5

Lab Sample ID: 890-3585-3
Matrix: Solid
Date Collected: 12/05/22 12:15
Date Received: 12/06/22 15:24
Sample Depth: 1.5

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		12/08/22 15:23	12/12/22 12:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/08/22 15:23	12/12/22 12:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/08/22 15:23	12/12/22 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*12/08/22 15:23*	*12/12/22 12:33*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*12/08/22 15:23*	*12/12/22 12:33*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**646**		5.03		mg/Kg			12/14/22 09:09	1

Client Sample ID: C-61 1.5

Lab Sample ID: 890-3585-4
Matrix: Solid
Date Collected: 12/05/22 12:18
Date Received: 12/06/22 15:24
Sample Depth: 1.5

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		12/15/22 10:12	12/16/22 12:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/15/22 10:12	12/16/22 12:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/15/22 10:12	12/16/22 12:49	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/15/22 10:12	12/16/22 12:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/15/22 10:12	12/16/22 12:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/15/22 10:12	12/16/22 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/15/22 10:12*	*12/16/22 12:49*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/15/22 10:12*	*12/16/22 12:49*	*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			12/16/22 14:23	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			12/13/22 09:37	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		12/08/22 15:23	12/12/22 12:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 12:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*12/08/22 15:23*	*12/12/22 12:54*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*12/08/22 15:23*	*12/12/22 12:54*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Client Sample ID: C-61 1.5

Lab Sample ID: 890-3585-4
Matrix: Solid
Date Collected: 12/05/22 12:18
Date Received: 12/06/22 15:24
Sample Depth: 1.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	897		5.01		mg/Kg			12/14/22 09:16	1

Client Sample ID: C-62 1.5

Lab Sample ID: 890-3585-5
Matrix: Solid
Date Collected: 12/05/22 12:25
Date Received: 12/06/22 15:24
Sample Depth: 1.5

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		12/15/22 10:12	12/16/22 13:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/15/22 10:12	12/16/22 13:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/15/22 10:12	12/16/22 13:10	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/15/22 10:12	12/16/22 13:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/15/22 10:12	12/16/22 13:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/15/22 10:12	12/16/22 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/15/22 10:12*	*12/16/22 13:10*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/15/22 10:12*	*12/16/22 13:10*	*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			12/16/22 14:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.0		50.0		mg/Kg			12/13/22 09:37	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	51.0		50.0		mg/Kg		12/08/22 15:23	12/12/22 13:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 13:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*12/08/22 15:23*	*12/12/22 13:15*	*1*
o-Terphenyl (Surr)	*130*		*70 - 130*	*12/08/22 15:23*	*12/12/22 13:15*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1450		25.0		mg/Kg			12/14/22 09:23	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Client Sample ID: C-63 1.5

Date Collected: 12/05/22 12:28
Date Received: 12/06/22 15:24
Sample Depth: 1.5

Lab Sample ID: 890-3585-6
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		12/15/22 10:12	12/16/22 13:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/15/22 10:12	12/16/22 13:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/15/22 10:12	12/16/22 13:30	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/15/22 10:12	12/16/22 13:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/15/22 10:12	12/16/22 13:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/15/22 10:12	12/16/22 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/15/22 10:12*	*12/16/22 13:30*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/15/22 10:12*	*12/16/22 13:30*	*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			12/16/22 14:23	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			12/13/22 09:37	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		12/08/22 15:23	12/12/22 13:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 13:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*12/08/22 15:23*	*12/12/22 13:36*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*12/08/22 15:23*	*12/12/22 13:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**986**		4.96		mg/Kg			12/14/22 09:31	1

Client Sample ID: C-64 1.5

Date Collected: 12/05/22 12:33
Date Received: 12/06/22 15:24
Sample Depth: 1.5

Lab Sample ID: 890-3585-7
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		12/15/22 10:12	12/16/22 13:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/15/22 10:12	12/16/22 13:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/15/22 10:12	12/16/22 13:50	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/15/22 10:12	12/16/22 13:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/15/22 10:12	12/16/22 13:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/15/22 10:12	12/16/22 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/15/22 10:12*	*12/16/22 13:50*	*1*

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Client Sample ID: C-64 1.5

Date Collected: 12/05/22 12:33
Date Received: 12/06/22 15:24
Sample Depth: 1.5

Lab Sample ID: 890-3585-7

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*	*12/15/22 10:12*	*12/16/22 13:50*	*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			12/16/22 14:23	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			12/13/22 09:37	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		12/08/22 15:23	12/12/22 13:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/08/22 15:23	12/12/22 13:57	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/08/22 15:23	12/12/22 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*12/08/22 15:23*	*12/12/22 13:57*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*12/08/22 15:23*	*12/12/22 13:57*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1350**		24.8	mg/Kg			12/14/22 09:38	5

Client Sample ID: C-65 1.5

Date Collected: 12/05/22 12:39
Date Received: 12/06/22 15:24
Sample Depth: 1.5

Lab Sample ID: 890-3585-8

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		12/15/22 10:12	12/16/22 14:11	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/15/22 10:12	12/16/22 14:11	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/15/22 10:12	12/16/22 14:11	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		12/15/22 10:12	12/16/22 14:11	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/15/22 10:12	12/16/22 14:11	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/15/22 10:12	12/16/22 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*12/15/22 10:12*	*12/16/22 14:11*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*12/15/22 10:12*	*12/16/22 14:11*	*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			12/16/22 14:53	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			12/13/22 09:37	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Client Sample ID: C-65 1.5

Lab Sample ID: 890-3585-8
Matrix: Solid
Date Collected: 12/05/22 12:39
Date Received: 12/06/22 15:24
Sample Depth: 1.5

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		12/08/22 15:23	12/12/22 14:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/08/22 15:23	12/12/22 14:19	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/08/22 15:23	12/12/22 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*12/08/22 15:23*	*12/12/22 14:19*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*12/08/22 15:23*	*12/12/22 14:19*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**246**		4.95		mg/Kg			12/14/22 09:45	1

Client Sample ID: SW-23 0-1.5

Lab Sample ID: 890-3585-9
Matrix: Solid
Date Collected: 12/05/22 12:05
Date Received: 12/06/22 15:24
Sample Depth: 0 - 1.8

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		12/15/22 10:12	12/16/22 14:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/15/22 10:12	12/16/22 14:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/15/22 10:12	12/16/22 14:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/15/22 10:12	12/16/22 14:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/15/22 10:12	12/16/22 14:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/15/22 10:12	12/16/22 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*12/15/22 10:12*	*12/16/22 14:31*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*12/15/22 10:12*	*12/16/22 14:31*	*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			12/16/22 14:53	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			12/13/22 09:37	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		12/08/22 15:23	12/12/22 14:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/08/22 15:23	12/12/22 14:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/08/22 15:23	12/12/22 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*12/08/22 15:23*	*12/12/22 14:40*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*12/08/22 15:23*	*12/12/22 14:40*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Client Sample ID: SW-23 0-1.5

Lab Sample ID: 890-3585-9
Matrix: Solid
Date Collected: 12/05/22 12:05
Date Received: 12/06/22 15:24
Sample Depth: 0 - 1.8

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		5.05		mg/Kg			12/14/22 10:07	1

Client Sample ID: SW-24 0-1.5

Lab Sample ID: 890-3585-10
Matrix: Solid
Date Collected: 12/05/22 12:10
Date Received: 12/06/22 15:24
Sample Depth: 0 - 1.5

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		12/15/22 10:12	12/16/22 14:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/15/22 10:12	12/16/22 14:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/15/22 10:12	12/16/22 14:52	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/15/22 10:12	12/16/22 14:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/15/22 10:12	12/16/22 14:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/15/22 10:12	12/16/22 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*12/15/22 10:12*	*12/16/22 14:52*	*1*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*	*12/15/22 10:12*	*12/16/22 14:52*	*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			12/19/22 16:02	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			12/13/22 09:37	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		12/08/22 15:23	12/12/22 15:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 15:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*12/08/22 15:23*	*12/12/22 15:02*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*12/08/22 15:23*	*12/12/22 15:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1630		25.2		mg/Kg			12/14/22 10:14	5

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-3585-1
Project/Site: BOO RADLEY SDG: 21-0105-08

Client Sample ID: SW-25 0-1.5 Lab Sample ID: 890-3585-11

Date Collected: 12/05/22 12:21 **Matrix: Solid**
Date Received: 12/06/22 15:24
Sample Depth: 0 - 1.5

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		12/15/22 10:12	12/16/22 16:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/15/22 10:12	12/16/22 16:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/15/22 10:12	12/16/22 16:55	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/15/22 10:12	12/16/22 16:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/15/22 10:12	12/16/22 16:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/15/22 10:12	12/16/22 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/15/22 10:12*	*12/16/22 16:55*	*1*
1,4-Difluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*12/15/22 10:12*	*12/16/22 16:55*	*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			12/19/22 16:02	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			12/13/22 09:37	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		12/08/22 15:23	12/12/22 15:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 15:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*12/08/22 15:23*	*12/12/22 15:44*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*12/08/22 15:23*	*12/12/22 15:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5030**		50.1		mg/Kg			12/14/22 10:36	10

Client Sample ID: SW-26 0-1.5 Lab Sample ID: 890-3585-12

Date Collected: 12/05/22 12:49 **Matrix: Solid**
Date Received: 12/06/22 15:24
Sample Depth: 0 - 1.5

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		12/15/22 10:12	12/16/22 17:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/15/22 10:12	12/16/22 17:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/15/22 10:12	12/16/22 17:16	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/15/22 10:12	12/16/22 17:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/15/22 10:12	12/16/22 17:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/15/22 10:12	12/16/22 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*12/15/22 10:12*	*12/16/22 17:16*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Client Sample ID: SW-26 0-1.5

Date Collected: 12/05/22 12:49
Date Received: 12/06/22 15:24
Sample Depth: 0 - 1.5

Lab Sample ID: 890-3585-12

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/15/22 10:12*	*12/16/22 17:16*	*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			12/19/22 16:02	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			12/13/22 09:37	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		12/08/22 15:23	12/12/22 16:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 16:06	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/08/22 15:23	12/12/22 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*12/08/22 15:23*	*12/12/22 16:06*	*1*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*	*12/08/22 15:23*	*12/12/22 16:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**465**		5.01		mg/Kg			12/14/22 10:43	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

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)
890-3585-1	C-58 1.5	89	103
890-3585-1 MS	C-58 1.5	91	100
890-3585-1 MSD	C-58 1.5	108	96
890-3585-2	C-59 1.5	113	99
890-3585-3	C-60 1.5	105	109
890-3585-4	C-61 1.5	114	110
890-3585-5	C-62 1.5	112	106
890-3585-6	C-63 1.5	101	103
890-3585-7	C-64 1.5	108	128
890-3585-8	C-65 1.5	71	111
890-3585-9	SW-23 0-1.5	71	114
890-3585-10	SW-24 0-1.5	79	124
890-3585-11	SW-25 0-1.5	87	142 S1+
890-3585-12	SW-26 0-1.5	74	105
LCS 880-41898/1-A	Lab Control Sample	92	97
LCSD 880-41898/2-A	Lab Control Sample Dup	94	100
MB 880-41898/5-A	Method Blank	62 S1-	106

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)
890-3585-1	C-58 1.5	116	130
890-3585-1 MS	C-58 1.5	104	102
890-3585-1 MSD	C-58 1.5	109	105
890-3585-2	C-59 1.5	111	124
890-3585-3	C-60 1.5	108	120
890-3585-4	C-61 1.5	109	121
890-3585-5	C-62 1.5	116	130
890-3585-6	C-63 1.5	103	112
890-3585-7	C-64 1.5	110	124
890-3585-8	C-65 1.5	111	125
890-3585-9	SW-23 0-1.5	102	114
890-3585-10	SW-24 0-1.5	108	122
890-3585-11	SW-25 0-1.5	107	120
890-3585-12	SW-26 0-1.5	118	132 S1+
LCS 880-41386/2-A	Lab Control Sample	103	107
LCSD 880-41386/3-A	Lab Control Sample Dup	111	118
MB 880-41386/1-A	Method Blank	136 S1+	197 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41898/5-A
Matrix: Solid
Analysis Batch: 41994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41898

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/15/22 10:12	12/16/22 11:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/15/22 10:12	12/16/22 11:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/15/22 10:12	12/16/22 11:19	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/15/22 10:12	12/16/22 11:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/15/22 10:12	12/16/22 11:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/15/22 10:12	12/16/22 11:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*12/15/22 10:12*	*12/16/22 11:19*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/15/22 10:12*	*12/16/22 11:19*	*1*

Lab Sample ID: LCS 880-41898/1-A
Matrix: Solid
Analysis Batch: 41994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41898

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08131		mg/Kg		81	70 - 130		
Toluene			0.100	0.07940		mg/Kg		79	70 - 130		
Ethylbenzene			0.100	0.07946		mg/Kg		79	70 - 130		
m,p-Xylenes			0.200	0.1750		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.08570		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-41898/2-A
Matrix: Solid
Analysis Batch: 41994

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41898

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08847		mg/Kg		88	70 - 130	8	35
Toluene			0.100	0.08281		mg/Kg		83	70 - 130	4	35
Ethylbenzene			0.100	0.08020		mg/Kg		80	70 - 130	1	35
m,p-Xylenes			0.200	0.1730		mg/Kg		87	70 - 130	1	35
o-Xylene			0.100	0.08494		mg/Kg		85	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-3585-1 MS
Matrix: Solid
Analysis Batch: 41994

Client Sample ID: C-58 1.5
Prep Type: Total/NA
Prep Batch: 41898

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.101	0.07767		mg/Kg		76	70 - 130		
Toluene	<0.00201	U F1	0.101	0.07022	F1	mg/Kg		68	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 890-3585-1
Project/Site: BOO RADLEY SDG: 21-0105-08

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

Lab Sample ID: 890-3585-1 MS **Client Sample ID: C-58 1.5**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 41994 **Prep Batch: 41898**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.101	0.07059	F1	mg/Kg		69	70 - 130
m,p-Xylenes	<0.00402	U	0.202	0.1525		mg/Kg		75	70 - 130
o-Xylene	<0.00201	U	0.101	0.07419		mg/Kg		73	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-3585-1 MSD **Client Sample ID: C-58 1.5**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 41994 **Prep Batch: 41898**

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	0.07985		mg/Kg		79	70 - 130	3	35
Toluene	<0.00201	U F1	0.0996	0.08279		mg/Kg		82	70 - 130	16	35
Ethylbenzene	<0.00201	U F1	0.0996	0.08282		mg/Kg		83	70 - 130	16	35
m,p-Xylenes	<0.00402	U	0.199	0.1833		mg/Kg		91	70 - 130	18	35
o-Xylene	<0.00201	U	0.0996	0.09074		mg/Kg		90	70 - 130	20	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

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

Lab Sample ID: MB 880-41386/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 41561 **Prep Batch: 41386**

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		12/08/22 15:23	12/12/22 08:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:23	12/12/22 08:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/22 15:23	12/12/22 08:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*136*	*S1+*	*70 - 130*	*12/08/22 15:23*	*12/12/22 08:40*	*1*
o-Terphenyl (Surr)	*197*	*S1+*	*70 - 130*	*12/08/22 15:23*	*12/12/22 08:40*	*1*

Lab Sample ID: LCS 880-41386/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 41561 **Prep Batch: 41386**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	948.1		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1070		mg/Kg		107	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

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

Lab Sample ID: LCS 880-41386/2-A
Matrix: Solid
Analysis Batch: 41561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41386

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-41386/3-A
Matrix: Solid
Analysis Batch: 41561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41386

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1111		mg/Kg		111	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	1206		mg/Kg		121	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	111		70 - 130
o-Terphenyl (Surr)	118		70 - 130

Lab Sample ID: 890-3585-1 MS
Matrix: Solid
Analysis Batch: 41561

Client Sample ID: C-58 1.5
Prep Type: Total/NA
Prep Batch: 41386

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	888.1		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	867.8		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	102		70 - 130

Lab Sample ID: 890-3585-1 MSD
Matrix: Solid
Analysis Batch: 41561

Client Sample ID: C-58 1.5
Prep Type: Total/NA
Prep Batch: 41386

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	951.5		mg/Kg		92	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	895.5		mg/Kg		90	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	109		70 - 130
o-Terphenyl (Surr)	105		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41366/1-A
Matrix: Solid
Analysis Batch: 41730

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			12/14/22 07:42	1

Lab Sample ID: LCS 880-41366/2-A
Matrix: Solid
Analysis Batch: 41730

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	245.5		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-41366/3-A
Matrix: Solid
Analysis Batch: 41730

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	248.9		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 890-3585-8 MS
Matrix: Solid
Analysis Batch: 41730

Client Sample ID: C-65 1.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	246		248	499.6		mg/Kg		102	90 - 110		

Lab Sample ID: 890-3585-8 MSD
Matrix: Solid
Analysis Batch: 41730

Client Sample ID: C-65 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	246		248	496.9		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

GC VOA

Prep Batch: 41898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3585-1	C-58 1.5	Total/NA	Solid	5035	
890-3585-2	C-59 1.5	Total/NA	Solid	5035	
890-3585-3	C-60 1.5	Total/NA	Solid	5035	
890-3585-4	C-61 1.5	Total/NA	Solid	5035	
890-3585-5	C-62 1.5	Total/NA	Solid	5035	
890-3585-6	C-63 1.5	Total/NA	Solid	5035	
890-3585-7	C-64 1.5	Total/NA	Solid	5035	
890-3585-8	C-65 1.5	Total/NA	Solid	5035	
890-3585-9	SW-23 0-1.5	Total/NA	Solid	5035	
890-3585-10	SW-24 0-1.5	Total/NA	Solid	5035	
890-3585-11	SW-25 0-1.5	Total/NA	Solid	5035	
890-3585-12	SW-26 0-1.5	Total/NA	Solid	5035	
MB 880-41898/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41898/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41898/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3585-1 MS	C-58 1.5	Total/NA	Solid	5035	
890-3585-1 MSD	C-58 1.5	Total/NA	Solid	5035	

Analysis Batch: 41994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3585-1	C-58 1.5	Total/NA	Solid	8021B	41898
890-3585-2	C-59 1.5	Total/NA	Solid	8021B	41898
890-3585-3	C-60 1.5	Total/NA	Solid	8021B	41898
890-3585-4	C-61 1.5	Total/NA	Solid	8021B	41898
890-3585-5	C-62 1.5	Total/NA	Solid	8021B	41898
890-3585-6	C-63 1.5	Total/NA	Solid	8021B	41898
890-3585-7	C-64 1.5	Total/NA	Solid	8021B	41898
890-3585-8	C-65 1.5	Total/NA	Solid	8021B	41898
890-3585-9	SW-23 0-1.5	Total/NA	Solid	8021B	41898
890-3585-10	SW-24 0-1.5	Total/NA	Solid	8021B	41898
890-3585-11	SW-25 0-1.5	Total/NA	Solid	8021B	41898
890-3585-12	SW-26 0-1.5	Total/NA	Solid	8021B	41898
MB 880-41898/5-A	Method Blank	Total/NA	Solid	8021B	41898
LCS 880-41898/1-A	Lab Control Sample	Total/NA	Solid	8021B	41898
LCSD 880-41898/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41898
890-3585-1 MS	C-58 1.5	Total/NA	Solid	8021B	41898
890-3585-1 MSD	C-58 1.5	Total/NA	Solid	8021B	41898

Analysis Batch: 42047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3585-1	C-58 1.5	Total/NA	Solid	Total BTEX	
890-3585-2	C-59 1.5	Total/NA	Solid	Total BTEX	
890-3585-3	C-60 1.5	Total/NA	Solid	Total BTEX	
890-3585-4	C-61 1.5	Total/NA	Solid	Total BTEX	
890-3585-5	C-62 1.5	Total/NA	Solid	Total BTEX	
890-3585-6	C-63 1.5	Total/NA	Solid	Total BTEX	
890-3585-7	C-64 1.5	Total/NA	Solid	Total BTEX	
890-3585-8	C-65 1.5	Total/NA	Solid	Total BTEX	
890-3585-9	SW-23 0-1.5	Total/NA	Solid	Total BTEX	
890-3585-10	SW-24 0-1.5	Total/NA	Solid	Total BTEX	
890-3585-11	SW-25 0-1.5	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 890-3585-1
Project/Site: BOO RADLEY SDG: 21-0105-08

GC VOA (Continued)

Analysis Batch: 42047 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3585-12	SW-26 0-1.5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3585-1	C-58 1.5	Total/NA	Solid	8015NM Prep	
890-3585-2	C-59 1.5	Total/NA	Solid	8015NM Prep	
890-3585-3	C-60 1.5	Total/NA	Solid	8015NM Prep	
890-3585-4	C-61 1.5	Total/NA	Solid	8015NM Prep	
890-3585-5	C-62 1.5	Total/NA	Solid	8015NM Prep	
890-3585-6	C-63 1.5	Total/NA	Solid	8015NM Prep	
890-3585-7	C-64 1.5	Total/NA	Solid	8015NM Prep	
890-3585-8	C-65 1.5	Total/NA	Solid	8015NM Prep	
890-3585-9	SW-23 0-1.5	Total/NA	Solid	8015NM Prep	
890-3585-10	SW-24 0-1.5	Total/NA	Solid	8015NM Prep	
890-3585-11	SW-25 0-1.5	Total/NA	Solid	8015NM Prep	
890-3585-12	SW-26 0-1.5	Total/NA	Solid	8015NM Prep	
MB 880-41386/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41386/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41386/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3585-1 MS	C-58 1.5	Total/NA	Solid	8015NM Prep	
890-3585-1 MSD	C-58 1.5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3585-1	C-58 1.5	Total/NA	Solid	8015B NM	41386
890-3585-2	C-59 1.5	Total/NA	Solid	8015B NM	41386
890-3585-3	C-60 1.5	Total/NA	Solid	8015B NM	41386
890-3585-4	C-61 1.5	Total/NA	Solid	8015B NM	41386
890-3585-5	C-62 1.5	Total/NA	Solid	8015B NM	41386
890-3585-6	C-63 1.5	Total/NA	Solid	8015B NM	41386
890-3585-7	C-64 1.5	Total/NA	Solid	8015B NM	41386
890-3585-8	C-65 1.5	Total/NA	Solid	8015B NM	41386
890-3585-9	SW-23 0-1.5	Total/NA	Solid	8015B NM	41386
890-3585-10	SW-24 0-1.5	Total/NA	Solid	8015B NM	41386
890-3585-11	SW-25 0-1.5	Total/NA	Solid	8015B NM	41386
890-3585-12	SW-26 0-1.5	Total/NA	Solid	8015B NM	41386
MB 880-41386/1-A	Method Blank	Total/NA	Solid	8015B NM	41386
LCS 880-41386/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41386
LCSD 880-41386/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41386
890-3585-1 MS	C-58 1.5	Total/NA	Solid	8015B NM	41386
890-3585-1 MSD	C-58 1.5	Total/NA	Solid	8015B NM	41386

Analysis Batch: 41706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3585-1	C-58 1.5	Total/NA	Solid	8015 NM	
890-3585-2	C-59 1.5	Total/NA	Solid	8015 NM	
890-3585-3	C-60 1.5	Total/NA	Solid	8015 NM	
890-3585-4	C-61 1.5	Total/NA	Solid	8015 NM	
890-3585-5	C-62 1.5	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

GC Semi VOA (Continued)

Analysis Batch: 41706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3585-6	C-63 1.5	Total/NA	Solid	8015 NM	
890-3585-7	C-64 1.5	Total/NA	Solid	8015 NM	
890-3585-8	C-65 1.5	Total/NA	Solid	8015 NM	
890-3585-9	SW-23 0-1.5	Total/NA	Solid	8015 NM	
890-3585-10	SW-24 0-1.5	Total/NA	Solid	8015 NM	
890-3585-11	SW-25 0-1.5	Total/NA	Solid	8015 NM	
890-3585-12	SW-26 0-1.5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3585-1	C-58 1.5	Soluble	Solid	DI Leach	
890-3585-2	C-59 1.5	Soluble	Solid	DI Leach	
890-3585-3	C-60 1.5	Soluble	Solid	DI Leach	
890-3585-4	C-61 1.5	Soluble	Solid	DI Leach	
890-3585-5	C-62 1.5	Soluble	Solid	DI Leach	
890-3585-6	C-63 1.5	Soluble	Solid	DI Leach	
890-3585-7	C-64 1.5	Soluble	Solid	DI Leach	
890-3585-8	C-65 1.5	Soluble	Solid	DI Leach	
890-3585-9	SW-23 0-1.5	Soluble	Solid	DI Leach	
890-3585-10	SW-24 0-1.5	Soluble	Solid	DI Leach	
890-3585-11	SW-25 0-1.5	Soluble	Solid	DI Leach	
890-3585-12	SW-26 0-1.5	Soluble	Solid	DI Leach	
MB 880-41366/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41366/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41366/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3585-8 MS	C-65 1.5	Soluble	Solid	DI Leach	
890-3585-8 MSD	C-65 1.5	Soluble	Solid	DI Leach	

Analysis Batch: 41730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3585-1	C-58 1.5	Soluble	Solid	300.0	41366
890-3585-2	C-59 1.5	Soluble	Solid	300.0	41366
890-3585-3	C-60 1.5	Soluble	Solid	300.0	41366
890-3585-4	C-61 1.5	Soluble	Solid	300.0	41366
890-3585-5	C-62 1.5	Soluble	Solid	300.0	41366
890-3585-6	C-63 1.5	Soluble	Solid	300.0	41366
890-3585-7	C-64 1.5	Soluble	Solid	300.0	41366
890-3585-8	C-65 1.5	Soluble	Solid	300.0	41366
890-3585-9	SW-23 0-1.5	Soluble	Solid	300.0	41366
890-3585-10	SW-24 0-1.5	Soluble	Solid	300.0	41366
890-3585-11	SW-25 0-1.5	Soluble	Solid	300.0	41366
890-3585-12	SW-26 0-1.5	Soluble	Solid	300.0	41366
MB 880-41366/1-A	Method Blank	Soluble	Solid	300.0	41366
LCS 880-41366/2-A	Lab Control Sample	Soluble	Solid	300.0	41366
LCSD 880-41366/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41366
890-3585-8 MS	C-65 1.5	Soluble	Solid	300.0	41366
890-3585-8 MSD	C-65 1.5	Soluble	Solid	300.0	41366

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Client Sample ID: C-58 1.5

Date Collected: 12/05/22 12:08
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-1

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	41898	12/15/22 10:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/16/22 11:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42047	12/16/22 14:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			41706	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 11:08	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41366	12/08/22 12:15	KS	EET MID
Soluble	Analysis	300.0		5			41730	12/14/22 08:40	CH	EET MID

Client Sample ID: C-59 1.5

Date Collected: 12/05/22 12:13
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-2

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	41898	12/15/22 10:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/16/22 12:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42047	12/16/22 14:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			41706	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 12:11	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41366	12/08/22 12:15	KS	EET MID
Soluble	Analysis	300.0		5			41730	12/14/22 08:47	CH	EET MID

Client Sample ID: C-60 1.5

Date Collected: 12/05/22 12:15
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-3

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	41898	12/15/22 10:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/16/22 12:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42047	12/16/22 14:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			41706	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 12:33	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41366	12/08/22 12:15	KS	EET MID
Soluble	Analysis	300.0		1			41730	12/14/22 09:09	CH	EET MID

Client Sample ID: C-61 1.5

Date Collected: 12/05/22 12:18
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-4

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			5.00 g	5 mL	41898	12/15/22 10:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/16/22 12:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42047	12/16/22 14:23	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Client Sample ID: C-61 1.5

Date Collected: 12/05/22 12:18
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-4

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			41706	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 12:54	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	41366	12/08/22 12:15	KS	EET MID
Soluble	Analysis	300.0		1			41730	12/14/22 09:16	CH	EET MID

Client Sample ID: C-62 1.5

Date Collected: 12/05/22 12:25
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-5

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	41898	12/15/22 10:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/16/22 13:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42047	12/16/22 14:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			41706	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 13:15	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41366	12/08/22 12:15	KS	EET MID
Soluble	Analysis	300.0		5			41730	12/14/22 09:23	CH	EET MID

Client Sample ID: C-63 1.5

Date Collected: 12/05/22 12:28
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-6

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	41898	12/15/22 10:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/16/22 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42047	12/16/22 14:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			41706	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 13:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41366	12/08/22 12:15	KS	EET MID
Soluble	Analysis	300.0		1			41730	12/14/22 09:31	CH	EET MID

Client Sample ID: C-64 1.5

Date Collected: 12/05/22 12:33
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-7

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			4.97 g	5 mL	41898	12/15/22 10:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/16/22 13:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42047	12/16/22 14:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			41706	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 13:57	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Client Sample ID: C-64 1.5

Date Collected: 12/05/22 12:33
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-7
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	41366	12/08/22 12:15	KS	EET MID
Soluble	Analysis	300.0		5			41730	12/14/22 09:38	CH	EET MID

Client Sample ID: C-65 1.5

Date Collected: 12/05/22 12:39
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-8
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	41898	12/15/22 10:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/16/22 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42047	12/16/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			41706	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 14:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41366	12/08/22 12:15	KS	EET MID
Soluble	Analysis	300.0		1			41730	12/14/22 09:45	CH	EET MID

Client Sample ID: SW-23 0-1.5

Date Collected: 12/05/22 12:05
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-9
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			5.02 g	5 mL	41898	12/15/22 10:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/16/22 14:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42047	12/16/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			41706	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 14:40	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41366	12/08/22 12:15	KS	EET MID
Soluble	Analysis	300.0		1			41730	12/14/22 10:07	CH	EET MID

Client Sample ID: SW-24 0-1.5

Date Collected: 12/05/22 12:10
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-10
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			4.98 g	5 mL	41898	12/15/22 10:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/16/22 14:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42047	12/19/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			41706	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 15:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41366	12/08/22 12:15	KS	EET MID
Soluble	Analysis	300.0		5			41730	12/14/22 10:14	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Client Sample ID: SW-25 0-1.5

Date Collected: 12/05/22 12:21
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-11

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	41898	12/15/22 10:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/16/22 16:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42047	12/19/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			41706	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 15:44	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	41366	12/08/22 12:15	KS	EET MID
Soluble	Analysis	300.0		10			41730	12/14/22 10:36	CH	EET MID

Client Sample ID: SW-26 0-1.5

Date Collected: 12/05/22 12:49
Date Received: 12/06/22 15:24

Lab Sample ID: 890-3585-12

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			5.03 g	5 mL	41898	12/15/22 10:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/16/22 17:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42047	12/19/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			41706	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 16:06	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	41366	12/08/22 12:15	KS	EET MID
Soluble	Analysis	300.0		1			41730	12/14/22 10:43	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.
Project/Site: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

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: 890-3585-1
Project/Site: BOO RADLEY SDG: 21-0105-08

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: BOO RADLEY

Job ID: 890-3585-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3585-1	C-58 1.5	Solid	12/05/22 12:08	12/06/22 15:24	1.5
890-3585-2	C-59 1.5	Solid	12/05/22 12:13	12/06/22 15:24	1.5
890-3585-3	C-60 1.5	Solid	12/05/22 12:15	12/06/22 15:24	1.5
890-3585-4	C-61 1.5	Solid	12/05/22 12:18	12/06/22 15:24	1.5
890-3585-5	C-62 1.5	Solid	12/05/22 12:25	12/06/22 15:24	1.5
890-3585-6	C-63 1.5	Solid	12/05/22 12:28	12/06/22 15:24	1.5
890-3585-7	C-64 1.5	Solid	12/05/22 12:33	12/06/22 15:24	1.5
890-3585-8	C-65 1.5	Solid	12/05/22 12:39	12/06/22 15:24	1.5
890-3585-9	SW-23 0-1.5	Solid	12/05/22 12:05	12/06/22 15:24	0 - 1.8
890-3585-10	SW-24 0-1.5	Solid	12/05/22 12:10	12/06/22 15:24	0 - 1.5
890-3585-11	SW-25 0-1.5	Solid	12/05/22 12:21	12/06/22 15:24	0 - 1.5
890-3585-12	SW-26 0-1.5	Solid	12/05/22 12:49	12/06/22 15:24	0 - 1.5

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No. 2784

CHAIN-OF-CUSTODY

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

DATE: 12/5/2022 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Boo RADLEY

LAI PROJECT #: 21-0105-08 COLLECTOR: JSH

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 ☐	CHLORIDE ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-58 1.5'		12/5/22	1208	S	1				X		X		X		X	X	X																									X			
C-59 1.5'			1213																																										
C-60 1.5'			1215																																										
C-61 1.5'			1218																																										
C-62 1.5'			1225																																										
C-63 1.5'			1228																																										
C-64 1.5'			1233																																										
C-65 1.5'			1239																																										
SW-23 0-1.5'			1205																																										
SW-24 0-1.5'			1210																																										
SW-25 0-1.5'			1221																																										
SW-26 0-1.5'			1249																																										

TOTAL 12

890-3585 Chain of Custody

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	12/6/22 1518	[signature] 1524
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: 0-2 6.0 THERM#: Tnm007 -0.2
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Page 31 of 33
12/19/2022
Received by OCD: 7/19/2023 8:51:08 AM
Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-3585-1
SDG Number: 21-0105-08

Login Number: 3585
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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?	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.	N/A	Refer to Job Narrative for details.
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: 890-3585-1
SDG Number: 21-0105-08

Login Number: 3585
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 12/08/22 11:44 AM

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 1/12/2023 2:22:43 PM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

890-3773-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 AM

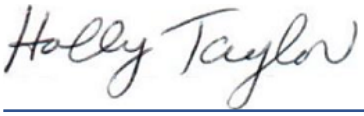
my EOL

Eurofins Carlsbad

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
1/12/2023 2:22:43 PM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 890-3773-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-3773-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD 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
*-	LCS and/or LCSD is outside acceptance 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: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

Job ID: 890-3773-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3773-1

Receipt
The samples were received on 1/5/2023 2:59 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 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-13 2.5' (890-3773-1), C-50 2.5' (890-3773-2), C-51 2.5' (890-3773-3), C-52 2.5' (890-3773-4), C-56 2.5' (890-3773-5), C-39 2.5' (890-3773-6), C-41 2.5' (890-3773-7), C-42 2.5' (890-3773-8) and C-38 2.5' (890-3773-9).

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-43510 and analytical batch 880-43646 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 sample was outside control limits: (MB 880-43510/5-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 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-43674 and analytical batch 880-43606 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 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-43674/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-43712 and analytical batch 880-43694 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
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: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

Client Sample ID: C-13 2.5'

Lab Sample ID: 890-3773-1
Matrix: Solid
Date Collected: 01/03/23 14:50
Date Received: 01/05/23 14:59

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		01/09/23 09:11	01/09/23 19:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 19:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 19:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 19:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 19:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*01/09/23 09:11*	*01/09/23 19:33*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/09/23 09:11*	*01/09/23 19:33*	*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			01/10/23 13:28	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			01/12/23 14:52	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		01/11/23 09:44	01/11/23 23:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/11/23 09:44	01/11/23 23:18	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/11/23 09:44	01/11/23 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*01/11/23 09:44*	*01/11/23 23:18*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*01/11/23 09:44*	*01/11/23 23:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**386**		5.03		mg/Kg			01/10/23 13:07	1

Client Sample ID: C-50 2.5'

Lab Sample ID: 890-3773-2
Matrix: Solid
Date Collected: 01/04/23 10:02
Date Received: 01/05/23 14:59

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		01/09/23 09:11	01/09/23 19:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 19:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 19:54	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 19:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 19:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*01/09/23 09:11*	*01/09/23 19:54*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/09/23 09:11*	*01/09/23 19:54*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

Client Sample ID: C-50 2.5'

Date Collected: 01/04/23 10:02
Date Received: 01/05/23 14:59

Lab Sample ID: 890-3773-2
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			01/10/23 13:28	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			01/12/23 14:52	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		01/11/23 09:44	01/11/23 23:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/11/23 09:44	01/11/23 23:39	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/11/23 09:44	01/11/23 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*01/11/23 09:44*	*01/11/23 23:39*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*01/11/23 09:44*	*01/11/23 23:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**292**		5.00		mg/Kg			01/10/23 13:21	1

Client Sample ID: C-51 2.5'

Date Collected: 01/04/23 10:04
Date Received: 01/05/23 14:59

Lab Sample ID: 890-3773-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200		mg/Kg		01/09/23 10:48	01/10/23 23:01	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		01/09/23 10:48	01/10/23 23:01	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		01/09/23 10:48	01/10/23 23:01	1
m,p-Xylenes	<0.00399	U *- *1	0.00399		mg/Kg		01/09/23 10:48	01/10/23 23:01	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		01/09/23 10:48	01/10/23 23:01	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		01/09/23 10:48	01/10/23 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/09/23 10:48*	*01/10/23 23:01*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/09/23 10:48*	*01/10/23 23:01*	*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			01/11/23 10:51	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			01/12/23 14:52	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		01/11/23 09:44	01/12/23 00:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/11/23 09:44	01/12/23 00:01	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-3773-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-51 2.5'
Lab Sample ID: 890-3773-3
Date Collected: 01/04/23 10:04 **Matrix: Solid**
Date Received: 01/05/23 14:59

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		01/11/23 09:44	01/12/23 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*01/11/23 09:44*	*01/12/23 00:01*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*01/11/23 09:44*	*01/12/23 00:01*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.7**		4.97		mg/Kg			01/10/23 13:26	1

Client Sample ID: C-52 2.5'
Lab Sample ID: 890-3773-4
Date Collected: 01/04/23 10:06 **Matrix: Solid**
Date Received: 01/05/23 14:59

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *- *1	0.00198		mg/Kg		01/09/23 10:48	01/10/23 23:27	1
Toluene	<0.00198	U *- *1	0.00198		mg/Kg		01/09/23 10:48	01/10/23 23:27	1
Ethylbenzene	<0.00198	U *- *1	0.00198		mg/Kg		01/09/23 10:48	01/10/23 23:27	1
m,p-Xylenes	<0.00396	U *- *1	0.00396		mg/Kg		01/09/23 10:48	01/10/23 23:27	1
o-Xylene	<0.00198	U *- *1	0.00198		mg/Kg		01/09/23 10:48	01/10/23 23:27	1
Xylenes, Total	<0.00396	U *-	0.00396		mg/Kg		01/09/23 10:48	01/10/23 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/09/23 10:48*	*01/10/23 23:27*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/09/23 10:48*	*01/10/23 23:27*	*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			01/11/23 10:51	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			01/12/23 14:52	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		01/11/23 09:44	01/12/23 00:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/11/23 09:44	01/12/23 00:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/23 09:44	01/12/23 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*01/11/23 09:44*	*01/12/23 00:22*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*01/11/23 09:44*	*01/12/23 00:22*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**112**		5.05		mg/Kg			01/10/23 13:31	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

Client Sample ID: C-56 2.5'

Date Collected: 01/04/23 10:08
Date Received: 01/05/23 14:59

Lab Sample ID: 890-3773-5

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199		mg/Kg		01/09/23 10:48	01/10/23 23:54	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		01/09/23 10:48	01/10/23 23:54	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		01/09/23 10:48	01/10/23 23:54	1
m,p-Xylenes	<0.00398	U *- *1	0.00398		mg/Kg		01/09/23 10:48	01/10/23 23:54	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		01/09/23 10:48	01/10/23 23:54	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		01/09/23 10:48	01/10/23 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*01/09/23 10:48*	*01/10/23 23:54*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/09/23 10:48*	*01/10/23 23:54*	*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			01/11/23 10:51	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			01/12/23 14:52	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		01/11/23 09:44	01/12/23 00:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/11/23 09:44	01/12/23 00:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/23 09:44	01/12/23 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*01/11/23 09:44*	*01/12/23 00:44*	*1*
o-Terphenyl (Surr)	*119*		*70 - 130*	*01/11/23 09:44*	*01/12/23 00:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.6**		4.99		mg/Kg			01/10/23 13:36	1

Client Sample ID: C-39 2.5'

Date Collected: 01/04/23 14:30
Date Received: 01/05/23 14:59

Lab Sample ID: 890-3773-6

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200		mg/Kg		01/09/23 10:48	01/11/23 00:20	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		01/09/23 10:48	01/11/23 00:20	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		01/09/23 10:48	01/11/23 00:20	1
m,p-Xylenes	<0.00401	U *- *1	0.00401		mg/Kg		01/09/23 10:48	01/11/23 00:20	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		01/09/23 10:48	01/11/23 00:20	1
Xylenes, Total	<0.00401	U *-	0.00401		mg/Kg		01/09/23 10:48	01/11/23 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/09/23 10:48*	*01/11/23 00:20*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/09/23 10:48*	*01/11/23 00:20*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

Client Sample ID: C-39 2.5'

Date Collected: 01/04/23 14:30
Date Received: 01/05/23 14:59

Lab Sample ID: 890-3773-6
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			01/11/23 10:51	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			01/12/23 14:52	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		01/11/23 09:44	01/12/23 01:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/11/23 09:44	01/12/23 01:05	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/11/23 09:44	01/12/23 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*01/11/23 09:44*	*01/12/23 01:05*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*01/11/23 09:44*	*01/12/23 01:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**622**		5.01		mg/Kg			01/10/23 13:50	1

Client Sample ID: C-41 2.5'

Date Collected: 01/04/23 14:32
Date Received: 01/05/23 14:59

Lab Sample ID: 890-3773-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202		mg/Kg		01/09/23 10:48	01/11/23 00:46	1
Toluene	<0.00202	U *- *1	0.00202		mg/Kg		01/09/23 10:48	01/11/23 00:46	1
Ethylbenzene	<0.00202	U *- *1	0.00202		mg/Kg		01/09/23 10:48	01/11/23 00:46	1
m,p-Xylenes	<0.00403	U *- *1	0.00403		mg/Kg		01/09/23 10:48	01/11/23 00:46	1
o-Xylene	<0.00202	U *- *1	0.00202		mg/Kg		01/09/23 10:48	01/11/23 00:46	1
Xylenes, Total	<0.00403	U *-	0.00403		mg/Kg		01/09/23 10:48	01/11/23 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/09/23 10:48*	*01/11/23 00:46*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/09/23 10:48*	*01/11/23 00:46*	*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			01/11/23 10:51	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			01/12/23 14:52	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		01/11/23 09:44	01/12/23 01:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/11/23 09:44	01/12/23 01:49	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-3773-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-41 2.5'
Lab Sample ID: 890-3773-7
Date Collected: 01/04/23 14:32 **Matrix: Solid**
Date Received: 01/05/23 14:59

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		01/11/23 09:44	01/12/23 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*01/11/23 09:44*	*01/12/23 01:49*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*01/11/23 09:44*	*01/12/23 01:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1060**		5.00		mg/Kg			01/10/23 13:55	1

Client Sample ID: C-42 2.5'
Lab Sample ID: 890-3773-8
Date Collected: 01/04/23 14:34 **Matrix: Solid**
Date Received: 01/05/23 14:59

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199		mg/Kg		01/09/23 10:48	01/11/23 01:12	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		01/09/23 10:48	01/11/23 01:12	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		01/09/23 10:48	01/11/23 01:12	1
m,p-Xylenes	<0.00398	U *- *1	0.00398		mg/Kg		01/09/23 10:48	01/11/23 01:12	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		01/09/23 10:48	01/11/23 01:12	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		01/09/23 10:48	01/11/23 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*01/09/23 10:48*	*01/11/23 01:12*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*01/09/23 10:48*	*01/11/23 01:12*	*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			01/11/23 10:51	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			01/12/23 14:52	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		01/11/23 09:44	01/12/23 02:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/11/23 09:44	01/12/23 02:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/23 09:44	01/12/23 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*01/11/23 09:44*	*01/12/23 02:10*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*01/11/23 09:44*	*01/12/23 02:10*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.2**		5.02		mg/Kg			01/10/23 14:00	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

Client Sample ID: C-38 2.5'

Date Collected: 01/04/23 14:40
Date Received: 01/05/23 14:59

Lab Sample ID: 890-3773-9

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200		mg/Kg		01/09/23 10:48	01/11/23 01:39	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		01/09/23 10:48	01/11/23 01:39	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		01/09/23 10:48	01/11/23 01:39	1
m,p-Xylenes	<0.00399	U *- *1	0.00399		mg/Kg		01/09/23 10:48	01/11/23 01:39	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		01/09/23 10:48	01/11/23 01:39	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		01/09/23 10:48	01/11/23 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/09/23 10:48*	*01/11/23 01:39*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/09/23 10:48*	*01/11/23 01:39*	*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			01/11/23 10:51	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			01/11/23 10:12	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		01/10/23 15:15	01/11/23 04:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/23 15:15	01/11/23 04:28	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/23 15:15	01/11/23 04:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*01/10/23 15:15*	*01/11/23 04:28*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*01/10/23 15:15*	*01/11/23 04:28*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.3**		5.01		mg/Kg			01/10/23 14:04	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

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)
890-3773-1	C-13 2.5'	118	102
890-3773-2	C-50 2.5'	127	99
890-3773-3	C-51 2.5'	97	100
890-3773-4	C-52 2.5'	103	99
890-3773-5	C-56 2.5'	94	94
890-3773-6	C-39 2.5'	106	101
890-3773-7	C-41 2.5'	106	99
890-3773-8	C-42 2.5'	121	103
890-3773-9	C-38 2.5'	109	95
LCS 880-43479/1-A	Lab Control Sample	93	96
LCS 880-43510/1-A	Lab Control Sample	107	99
LCSD 880-43479/2-A	Lab Control Sample Dup	93	96
LCSD 880-43510/2-A	Lab Control Sample Dup	96	93
MB 880-43479/5-A	Method Blank	103	86
MB 880-43510/5-A	Method Blank	64 S1-	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)
890-3773-1	C-13 2.5'	97	103
890-3773-2	C-50 2.5'	120	127
890-3773-3	C-51 2.5'	116	122
890-3773-4	C-52 2.5'	98	103
890-3773-5	C-56 2.5'	114	119
890-3773-6	C-39 2.5'	112	117
890-3773-7	C-41 2.5'	100	105
890-3773-8	C-42 2.5'	117	123
890-3773-9	C-38 2.5'	110	118
LCS 880-43674/2-A	Lab Control Sample	81	82
LCS 880-43712/2-A	Lab Control Sample	103	99
LCSD 880-43674/3-A	Lab Control Sample Dup	80	82
LCSD 880-43712/3-A	Lab Control Sample Dup	121	108
MB 880-43674/1-A	Method Blank	128	131 S1+
MB 880-43712/1-A	Method Blank	130	133 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43479/5-A
Matrix: Solid
Analysis Batch: 43471

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43479

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 11:14	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/09/23 09:11	01/09/23 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/09/23 09:11	01/09/23 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/09/23 09:11*	*01/09/23 11:14*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/09/23 09:11*	*01/09/23 11:14*	*1*

Lab Sample ID: LCS 880-43479/1-A
Matrix: Solid
Analysis Batch: 43471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43479

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08291		mg/Kg		83	70 - 130		
Toluene			0.100	0.08166		mg/Kg		82	70 - 130		
Ethylbenzene			0.100	0.07350		mg/Kg		73	70 - 130		
m,p-Xylenes			0.200	0.1583		mg/Kg		79	70 - 130		
o-Xylene			0.100	0.07894		mg/Kg		79	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-43479/2-A
Matrix: Solid
Analysis Batch: 43471

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43479

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09447		mg/Kg		94	70 - 130	13	35
Toluene			0.100	0.09192		mg/Kg		92	70 - 130	12	35
Ethylbenzene			0.100	0.08452		mg/Kg		85	70 - 130	14	35
m,p-Xylenes			0.200	0.1820		mg/Kg		91	70 - 130	14	35
o-Xylene			0.100	0.09056		mg/Kg		91	70 - 130	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 880-43510/5-A
Matrix: Solid
Analysis Batch: 43646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43510

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/23 10:48	01/10/23 15:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/23 10:48	01/10/23 15:38	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-43510/5-A
Matrix: Solid
Analysis Batch: 43646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43510

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/23 10:48	01/10/23 15:38	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/09/23 10:48	01/10/23 15:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/23 10:48	01/10/23 15:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/09/23 10:48	01/10/23 15:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*01/09/23 10:48*	*01/10/23 15:38*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*01/09/23 10:48*	*01/10/23 15:38*	*1*

Lab Sample ID: LCS 880-43510/1-A
Matrix: Solid
Analysis Batch: 43646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43510

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1101		mg/Kg		110	70 - 130		
Toluene			0.100	0.1113		mg/Kg		111	70 - 130		
Ethylbenzene			0.100	0.1050		mg/Kg		105	70 - 130		
m,p-Xylenes			0.200	0.02723	*-	mg/Kg		14	70 - 130		
o-Xylene			0.100	0.1121		mg/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-43510/2-A
Matrix: Solid
Analysis Batch: 43646

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43510

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.05616	*- *1	mg/Kg		56	70 - 130	65	35
Toluene			0.100	0.05733	*- *1	mg/Kg		57	70 - 130	64	35
Ethylbenzene			0.100	0.05954	*- *1	mg/Kg		60	70 - 130	55	35
m,p-Xylenes			0.200	0.1242	*- *1	mg/Kg		62	70 - 130	128	35
o-Xylene			0.100	0.06533	*- *1	mg/Kg		65	70 - 130	53	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

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

Lab Sample ID: MB 880-43674/1-A
Matrix: Solid
Analysis Batch: 43606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43674

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		01/10/23 15:15	01/10/23 19:56	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-43674/1-A
Matrix: Solid
Analysis Batch: 43606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43674

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		01/10/23 15:15	01/10/23 19:56	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/23 15:15	01/10/23 19:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*128*		*70 - 130*	*01/10/23 15:15*	*01/10/23 19:56*	*1*
o-Terphenyl (Surr)	*131*	*S1+*	*70 - 130*	*01/10/23 15:15*	*01/10/23 19:56*	*1*

Lab Sample ID: LCS 880-43674/2-A
Matrix: Solid
Analysis Batch: 43606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43674

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	617.8	*-	mg/Kg		62	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	842.6		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*81*		*70 - 130*
o-Terphenyl (Surr)	*82*		*70 - 130*

Lab Sample ID: LCSD 880-43674/3-A
Matrix: Solid
Analysis Batch: 43606

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43674

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	577.3	*-	mg/Kg		58	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	805.5		mg/Kg		81	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*80*		*70 - 130*
o-Terphenyl (Surr)	*82*		*70 - 130*

Lab Sample ID: MB 880-43712/1-A
Matrix: Solid
Analysis Batch: 43694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43712

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		01/11/23 09:44	01/11/23 19:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/11/23 09:44	01/11/23 19:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/23 09:44	01/11/23 19:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*130*		*70 - 130*	*01/11/23 09:44*	*01/11/23 19:58*	*1*

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-43712/1-A
Matrix: Solid
Analysis Batch: 43694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43712

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	133	S1+	70 - 130	01/11/23 09:44	01/11/23 19:58	1

Lab Sample ID: LCS 880-43712/2-A
Matrix: Solid
Analysis Batch: 43694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	980.1		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	897.0		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-43712/3-A
Matrix: Solid
Analysis Batch: 43694

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43712

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	849.2		mg/Kg		85	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	1053		mg/Kg		105	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	121		70 - 130
o-Terphenyl (Surr)	108		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43541/1-A
Matrix: Solid
Analysis Batch: 43614

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			01/10/23 12:53	1

Lab Sample ID: LCS 880-43541/2-A
Matrix: Solid
Analysis Batch: 43614

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.6		mg/Kg		100	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-43541/3-A
Matrix: Solid
Analysis Batch: 43614

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	249.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-3773-1 MS
Matrix: Solid
Analysis Batch: 43614

Client Sample ID: C-13 2.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	386		252	644.6		mg/Kg		103	90 - 110		

Lab Sample ID: 890-3773-1 MSD
Matrix: Solid
Analysis Batch: 43614

Client Sample ID: C-13 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	386		252	646.6		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

GC VOA

Analysis Batch: 43471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3773-1	C-13 2.5'	Total/NA	Solid	8021B	43479
890-3773-2	C-50 2.5'	Total/NA	Solid	8021B	43479
MB 880-43479/5-A	Method Blank	Total/NA	Solid	8021B	43479
LCS 880-43479/1-A	Lab Control Sample	Total/NA	Solid	8021B	43479
LCSD 880-43479/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43479

Prep Batch: 43479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3773-1	C-13 2.5'	Total/NA	Solid	5035	
890-3773-2	C-50 2.5'	Total/NA	Solid	5035	
MB 880-43479/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43479/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43479/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 43510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3773-3	C-51 2.5'	Total/NA	Solid	5035	
890-3773-4	C-52 2.5'	Total/NA	Solid	5035	
890-3773-5	C-56 2.5'	Total/NA	Solid	5035	
890-3773-6	C-39 2.5'	Total/NA	Solid	5035	
890-3773-7	C-41 2.5'	Total/NA	Solid	5035	
890-3773-8	C-42 2.5'	Total/NA	Solid	5035	
890-3773-9	C-38 2.5'	Total/NA	Solid	5035	
MB 880-43510/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43510/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43510/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 43646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3773-3	C-51 2.5'	Total/NA	Solid	8021B	43510
890-3773-4	C-52 2.5'	Total/NA	Solid	8021B	43510
890-3773-5	C-56 2.5'	Total/NA	Solid	8021B	43510
890-3773-6	C-39 2.5'	Total/NA	Solid	8021B	43510
890-3773-7	C-41 2.5'	Total/NA	Solid	8021B	43510
890-3773-8	C-42 2.5'	Total/NA	Solid	8021B	43510
890-3773-9	C-38 2.5'	Total/NA	Solid	8021B	43510
MB 880-43510/5-A	Method Blank	Total/NA	Solid	8021B	43510
LCS 880-43510/1-A	Lab Control Sample	Total/NA	Solid	8021B	43510
LCSD 880-43510/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43510

Analysis Batch: 43655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3773-1	C-13 2.5'	Total/NA	Solid	Total BTEX	
890-3773-2	C-50 2.5'	Total/NA	Solid	Total BTEX	
890-3773-3	C-51 2.5'	Total/NA	Solid	Total BTEX	
890-3773-4	C-52 2.5'	Total/NA	Solid	Total BTEX	
890-3773-5	C-56 2.5'	Total/NA	Solid	Total BTEX	
890-3773-6	C-39 2.5'	Total/NA	Solid	Total BTEX	
890-3773-7	C-41 2.5'	Total/NA	Solid	Total BTEX	
890-3773-8	C-42 2.5'	Total/NA	Solid	Total BTEX	
890-3773-9	C-38 2.5'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

GC Semi VOA

Analysis Batch: 43606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3773-9	C-38 2.5'	Total/NA	Solid	8015B NM	43674
MB 880-43674/1-A	Method Blank	Total/NA	Solid	8015B NM	43674
LCS 880-43674/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43674
LCSD 880-43674/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43674

Prep Batch: 43674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3773-9	C-38 2.5'	Total/NA	Solid	8015NM Prep	
MB 880-43674/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43674/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43674/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3773-1	C-13 2.5'	Total/NA	Solid	8015B NM	43712
890-3773-2	C-50 2.5'	Total/NA	Solid	8015B NM	43712
890-3773-3	C-51 2.5'	Total/NA	Solid	8015B NM	43712
890-3773-4	C-52 2.5'	Total/NA	Solid	8015B NM	43712
890-3773-5	C-56 2.5'	Total/NA	Solid	8015B NM	43712
890-3773-6	C-39 2.5'	Total/NA	Solid	8015B NM	43712
890-3773-7	C-41 2.5'	Total/NA	Solid	8015B NM	43712
890-3773-8	C-42 2.5'	Total/NA	Solid	8015B NM	43712
MB 880-43712/1-A	Method Blank	Total/NA	Solid	8015B NM	43712
LCS 880-43712/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43712
LCSD 880-43712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43712

Prep Batch: 43712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3773-1	C-13 2.5'	Total/NA	Solid	8015NM Prep	
890-3773-2	C-50 2.5'	Total/NA	Solid	8015NM Prep	
890-3773-3	C-51 2.5'	Total/NA	Solid	8015NM Prep	
890-3773-4	C-52 2.5'	Total/NA	Solid	8015NM Prep	
890-3773-5	C-56 2.5'	Total/NA	Solid	8015NM Prep	
890-3773-6	C-39 2.5'	Total/NA	Solid	8015NM Prep	
890-3773-7	C-41 2.5'	Total/NA	Solid	8015NM Prep	
890-3773-8	C-42 2.5'	Total/NA	Solid	8015NM Prep	
MB 880-43712/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43712/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3773-1	C-13 2.5'	Total/NA	Solid	8015 NM	
890-3773-2	C-50 2.5'	Total/NA	Solid	8015 NM	
890-3773-3	C-51 2.5'	Total/NA	Solid	8015 NM	
890-3773-4	C-52 2.5'	Total/NA	Solid	8015 NM	
890-3773-5	C-56 2.5'	Total/NA	Solid	8015 NM	
890-3773-6	C-39 2.5'	Total/NA	Solid	8015 NM	
890-3773-7	C-41 2.5'	Total/NA	Solid	8015 NM	
890-3773-8	C-42 2.5'	Total/NA	Solid	8015 NM	
890-3773-9	C-38 2.5'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

HPLC/IC

Leach Batch: 43541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3773-1	C-13 2.5'	Soluble	Solid	DI Leach	
890-3773-2	C-50 2.5'	Soluble	Solid	DI Leach	
890-3773-3	C-51 2.5'	Soluble	Solid	DI Leach	
890-3773-4	C-52 2.5'	Soluble	Solid	DI Leach	
890-3773-5	C-56 2.5'	Soluble	Solid	DI Leach	
890-3773-6	C-39 2.5'	Soluble	Solid	DI Leach	
890-3773-7	C-41 2.5'	Soluble	Solid	DI Leach	
890-3773-8	C-42 2.5'	Soluble	Solid	DI Leach	
890-3773-9	C-38 2.5'	Soluble	Solid	DI Leach	
MB 880-43541/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43541/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43541/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3773-1 MS	C-13 2.5'	Soluble	Solid	DI Leach	
890-3773-1 MSD	C-13 2.5'	Soluble	Solid	DI Leach	

Analysis Batch: 43614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3773-1	C-13 2.5'	Soluble	Solid	300.0	43541
890-3773-2	C-50 2.5'	Soluble	Solid	300.0	43541
890-3773-3	C-51 2.5'	Soluble	Solid	300.0	43541
890-3773-4	C-52 2.5'	Soluble	Solid	300.0	43541
890-3773-5	C-56 2.5'	Soluble	Solid	300.0	43541
890-3773-6	C-39 2.5'	Soluble	Solid	300.0	43541
890-3773-7	C-41 2.5'	Soluble	Solid	300.0	43541
890-3773-8	C-42 2.5'	Soluble	Solid	300.0	43541
890-3773-9	C-38 2.5'	Soluble	Solid	300.0	43541
MB 880-43541/1-A	Method Blank	Soluble	Solid	300.0	43541
LCS 880-43541/2-A	Lab Control Sample	Soluble	Solid	300.0	43541
LCSD 880-43541/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43541
890-3773-1 MS	C-13 2.5'	Soluble	Solid	300.0	43541
890-3773-1 MSD	C-13 2.5'	Soluble	Solid	300.0	43541

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

Client Sample ID: C-13 2.5'

Date Collected: 01/03/23 14:50
Date Received: 01/05/23 14:59

Lab Sample ID: 890-3773-1
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	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 19:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43655	01/10/23 13:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			43721	01/12/23 14:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43712	01/11/23 09:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43694	01/11/23 23:18	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43541	01/09/23 12:54	KS	EET MID
Soluble	Analysis	300.0		1			43614	01/10/23 13:07	CH	EET MID

Client Sample ID: C-50 2.5'

Date Collected: 01/04/23 10:02
Date Received: 01/05/23 14:59

Lab Sample ID: 890-3773-2
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			5.03 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 19:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43655	01/10/23 13:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			43721	01/12/23 14:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43712	01/11/23 09:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43694	01/11/23 23:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43541	01/09/23 12:54	KS	EET MID
Soluble	Analysis	300.0		1			43614	01/10/23 13:21	CH	EET MID

Client Sample ID: C-51 2.5'

Date Collected: 01/04/23 10:04
Date Received: 01/05/23 14:59

Lab Sample ID: 890-3773-3
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			5.01 g	5 mL	43510	01/09/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43646	01/10/23 23:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43655	01/11/23 10:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			43721	01/12/23 14:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43712	01/11/23 09:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43694	01/12/23 00:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43541	01/09/23 12:54	KS	EET MID
Soluble	Analysis	300.0		1			43614	01/10/23 13:26	CH	EET MID

Client Sample ID: C-52 2.5'

Date Collected: 01/04/23 10:06
Date Received: 01/05/23 14:59

Lab Sample ID: 890-3773-4
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			5.05 g	5 mL	43510	01/09/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43646	01/10/23 23:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43655	01/11/23 10:51	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 890-3773-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-52 2.5' Lab Sample ID: 890-3773-4

Date Collected: 01/04/23 10:06 **Matrix: Solid**
Date Received: 01/05/23 14:59

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			43721	01/12/23 14:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43712	01/11/23 09:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43694	01/12/23 00:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	43541	01/09/23 12:54	KS	EET MID
Soluble	Analysis	300.0		1			43614	01/10/23 13:31	CH	EET MID

Client Sample ID: C-56 2.5' Lab Sample ID: 890-3773-5

Date Collected: 01/04/23 10:08 **Matrix: Solid**
Date Received: 01/05/23 14:59

Prep 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	43510	01/09/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43646	01/10/23 23:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43655	01/11/23 10:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			43721	01/12/23 14:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43712	01/11/23 09:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43694	01/12/23 00:44	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	43541	01/09/23 12:54	KS	EET MID
Soluble	Analysis	300.0		1			43614	01/10/23 13:36	CH	EET MID

Client Sample ID: C-39 2.5' Lab Sample ID: 890-3773-6

Date Collected: 01/04/23 14:30 **Matrix: Solid**
Date Received: 01/05/23 14:59

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	43510	01/09/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43646	01/11/23 00:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43655	01/11/23 10:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			43721	01/12/23 14:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43712	01/11/23 09:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43694	01/12/23 01:05	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43541	01/09/23 12:54	KS	EET MID
Soluble	Analysis	300.0		1			43614	01/10/23 13:50	CH	EET MID

Client Sample ID: C-41 2.5' Lab Sample ID: 890-3773-7

Date Collected: 01/04/23 14:32 **Matrix: Solid**
Date Received: 01/05/23 14:59

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	43510	01/09/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43646	01/11/23 00:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43655	01/11/23 10:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			43721	01/12/23 14:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43712	01/11/23 09:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43694	01/12/23 01:49	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

Client Sample ID: C-41 2.5'

Lab Sample ID: 890-3773-7
Matrix: Solid
Date Collected: 01/04/23 14:32
Date Received: 01/05/23 14:59

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	43541	01/09/23 12:54	KS	EET MID
Soluble	Analysis	300.0		1			43614	01/10/23 13:55	CH	EET MID

Client Sample ID: C-42 2.5'

Lab Sample ID: 890-3773-8
Matrix: Solid
Date Collected: 01/04/23 14:34
Date Received: 01/05/23 14:59

Prep 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	43510	01/09/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43646	01/11/23 01:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43655	01/11/23 10:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			43721	01/12/23 14:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43712	01/11/23 09:44	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43694	01/12/23 02:10	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43541	01/09/23 12:54	KS	EET MID
Soluble	Analysis	300.0		1			43614	01/10/23 14:00	CH	EET MID

Client Sample ID: C-38 2.5'

Lab Sample ID: 890-3773-9
Matrix: Solid
Date Collected: 01/04/23 14:40
Date Received: 01/05/23 14:59

Prep 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	43510	01/09/23 10:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43646	01/11/23 01:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43655	01/11/23 10:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			43721	01/11/23 10:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43674	01/10/23 15:15	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43606	01/11/23 04:28	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43541	01/09/23 12:54	KS	EET MID
Soluble	Analysis	300.0		1			43614	01/10/23 14:04	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.
Project/Site: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

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: 890-3773-1
Project/Site: Boo Radley SDG: 21-0105-08

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: Boo Radley

Job ID: 890-3773-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3773-1	C-13 2.5'	Solid	01/03/23 14:50	01/05/23 14:59
890-3773-2	C-50 2.5'	Solid	01/04/23 10:02	01/05/23 14:59
890-3773-3	C-51 2.5'	Solid	01/04/23 10:04	01/05/23 14:59
890-3773-4	C-52 2.5'	Solid	01/04/23 10:06	01/05/23 14:59
890-3773-5	C-56 2.5'	Solid	01/04/23 10:08	01/05/23 14:59
890-3773-6	C-39 2.5'	Solid	01/04/23 14:30	01/05/23 14:59
890-3773-7	C-41 2.5'	Solid	01/04/23 14:32	01/05/23 14:59
890-3773-8	C-42 2.5'	Solid	01/04/23 14:34	01/05/23 14:59
890-3773-9	C-38 2.5'	Solid	01/04/23 14:40	01/05/23 14:59

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890-3773 Chain of Custody

No. 2787

CHAIN-OF-CUSTODY

1/12/2023

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

Data Reported to:

DATE: 1/5/2022 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: BOO RADLEY

LAI PROJECT #: 21-0105-08 COLLECTOR: DSG

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

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

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ | TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ | HOLDPAH ☐ | 8081 PESTICIDES ☐ | 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 ☐ | 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-13 2.5'		1/5/22	1450	S	1					X		BTEX, TRPH 418.1, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, CHLORIDE	
C-50 2.5'		1/4/22	1002	S	1					X		BTEX, TRPH 418.1, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, CHLORIDE	
C-51 2.5'		1/4/22	1004	S	1					X		BTEX, TRPH 418.1, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, CHLORIDE	
C-52 2.5'		1/4/22	1006	S	1					X		BTEX, TRPH 418.1, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, CHLORIDE	
C-56 2.5'		1/4/22	1008	S	1					X		BTEX, TRPH 418.1, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, CHLORIDE	
C-39 2.5'		1/4/22	1430	S	1					X		BTEX, TRPH 418.1, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, CHLORIDE	
C-41 2.5'		1/4/22	1432	S	1					X		BTEX, TRPH 418.1, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, CHLORIDE	
C-42 2.5'		1/4/22	1434	S	1					X		BTEX, TRPH 418.1, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, CHLORIDE	
C-38 2.5		1/4/22	1440	S	1					X		BTEX, TRPH 418.1, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, CHLORIDE	

TOTAL 9

RELINQUISHED BY:(Signature) Amanda Stuf DATE/TIME 1-5-23 1459 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: 4.4/4.2 THERM#: IAM-007
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Page 28 of 30

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-3773-1
SDG Number: 21-0105-08

Login Number: 3773
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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?	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.	N/A	Refer to Job Narrative for details.
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: 890-3773-1
SDG Number: 21-0105-08

Login Number: 3773
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/09/23 08:26 AM

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 1/17/2023 1:58:09 PM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

880-23509-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:58:20 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
1/17/2023 1:58:09 PM

Authorized for release by
Holly Taylor, Project Manager
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Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 880-23509-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-23509-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
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: Boo Radley

Job ID: 880-23509-1
SDG: 21-0105-08

Job ID: 880-23509-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-23509-1

Receipt
The samples were received on 1/10/2023 10:58 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 5.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-36 2.5' (880-23509-1), C-40 2.5' (880-23509-2), C-29 2.5' (880-23509-3) and C-30 2.5' (880-23509-4).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: C-36 2.5' (880-23509-1). 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 sample was outside control limits: (MB 880-43803/1-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
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: Boo Radley

Job ID: 880-23509-1
SDG: 21-0105-08

Client Sample ID: C-36 2.5'

Date Collected: 01/06/23 10:15
Date Received: 01/10/23 10:58

Lab Sample ID: 880-23509-1
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		01/10/23 15:37	01/17/23 07:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/23 15:37	01/17/23 07:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/23 15:37	01/17/23 07:39	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/10/23 15:37	01/17/23 07:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/23 15:37	01/17/23 07:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/23 15:37	01/17/23 07:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/10/23 15:37*	*01/17/23 07:39*	*1*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*01/10/23 15:37*	*01/17/23 07:39*	*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			01/17/23 14:40	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			01/16/23 16:39	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		01/12/23 11:39	01/15/23 18:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/12/23 11:39	01/15/23 18:00	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/12/23 11:39	01/15/23 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*01/12/23 11:39*	*01/15/23 18:00*	*1*
o-Terphenyl (Surr)	*128*		*70 - 130*	*01/12/23 11:39*	*01/15/23 18:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**460**		50.1		mg/Kg			01/13/23 22:55	10

Client Sample ID: C-40 2.5'

Date Collected: 01/06/23 10:17
Date Received: 01/10/23 10:58

Lab Sample ID: 880-23509-2
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		01/10/23 15:37	01/17/23 08:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/23 15:37	01/17/23 08:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/23 15:37	01/17/23 08:00	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/10/23 15:37	01/17/23 08:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/23 15:37	01/17/23 08:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/23 15:37	01/17/23 08:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/10/23 15:37*	*01/17/23 08:00*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*01/10/23 15:37*	*01/17/23 08:00*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23509-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-40 2.5'
Lab Sample ID: 880-23509-2
Date Collected: 01/06/23 10:17 **Matrix: Solid**
Date Received: 01/10/23 10:58

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			01/17/23 14:40	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			01/16/23 16:39	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		01/12/23 11:39	01/15/23 18:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/12/23 11:39	01/15/23 18:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/12/23 11:39	01/15/23 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*01/12/23 11:39*	*01/15/23 18:21*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*01/12/23 11:39*	*01/15/23 18:21*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.3**		5.02		mg/Kg			01/13/23 23:01	1

Client Sample ID: C-29 2.5'
Lab Sample ID: 880-23509-3
Date Collected: 01/06/23 10:20 **Matrix: Solid**
Date Received: 01/10/23 10:58

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		01/10/23 15:37	01/17/23 08:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/23 15:37	01/17/23 08:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/23 15:37	01/17/23 08:20	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/10/23 15:37	01/17/23 08:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/23 15:37	01/17/23 08:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/23 15:37	01/17/23 08:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/10/23 15:37*	*01/17/23 08:20*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*01/10/23 15:37*	*01/17/23 08:20*	*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			01/17/23 14:40	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			01/16/23 16:39	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		01/12/23 11:39	01/15/23 18:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/12/23 11:39	01/15/23 18:42	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23509-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-29 2.5'
Lab Sample ID: 880-23509-3
Date Collected: 01/06/23 10:20 **Matrix: Solid**
Date Received: 01/10/23 10:58

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		01/12/23 11:39	01/15/23 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*01/12/23 11:39*	*01/15/23 18:42*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*01/12/23 11:39*	*01/15/23 18:42*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**177**		5.00		mg/Kg			01/13/23 23:06	1

Client Sample ID: C-30 2.5'
Lab Sample ID: 880-23509-4
Date Collected: 01/06/23 10:22 **Matrix: Solid**
Date Received: 01/10/23 10:58

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		01/10/23 15:37	01/17/23 08:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/23 15:37	01/17/23 08:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/23 15:37	01/17/23 08:41	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/10/23 15:37	01/17/23 08:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/23 15:37	01/17/23 08:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/23 15:37	01/17/23 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/10/23 15:37*	*01/17/23 08:41*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*01/10/23 15:37*	*01/17/23 08:41*	*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			01/17/23 14:40	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			01/16/23 16:39	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		01/12/23 11:39	01/15/23 19:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/12/23 11:39	01/15/23 19:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/12/23 11:39	01/15/23 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*01/12/23 11:39*	*01/15/23 19:04*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*01/12/23 11:39*	*01/15/23 19:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1370**		25.0		mg/Kg			01/13/23 23:12	5

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23509-1
SDG: 21-0105-08

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)								
880-23509-1	C-36 2.5'	90	64 S1-								
880-23509-2	C-40 2.5'	106	84								
880-23509-3	C-29 2.5'	110	117								
880-23509-4	C-30 2.5'	107	117								
LCS 880-43678/1-A	Lab Control Sample	107	100								
LCSD 880-43678/2-A	Lab Control Sample Dup	98	100								
MB 880-43678/5-A	Method Blank	90	91								
MB 880-43910/5-A	Method Blank	99	100								

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)								
880-23509-1	C-36 2.5'	121	128								
880-23509-2	C-40 2.5'	104	114								
880-23509-3	C-29 2.5'	101	112								
880-23509-4	C-30 2.5'	105	116								
LCS 880-43803/2-A	Lab Control Sample	103	109								
LCSD 880-43803/3-A	Lab Control Sample Dup	113	107								
MB 880-43803/1-A	Method Blank	172 S1+	175 S1+								

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23509-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43678/5-A
Matrix: Solid
Analysis Batch: 43961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43678

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/23 15:37	01/17/23 01:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/23 15:37	01/17/23 01:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/23 15:37	01/17/23 01:44	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/10/23 15:37	01/17/23 01:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/23 15:37	01/17/23 01:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/23 15:37	01/17/23 01:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/10/23 15:37*	*01/17/23 01:44*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/10/23 15:37*	*01/17/23 01:44*	*1*

Lab Sample ID: LCS 880-43678/1-A
Matrix: Solid
Analysis Batch: 43961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43678

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08210		mg/Kg		82	70 - 130		
Toluene			0.100	0.08137		mg/Kg		81	70 - 130		
Ethylbenzene			0.100	0.09476		mg/Kg		95	70 - 130		
m,p-Xylenes			0.200	0.1803		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.09496		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-43678/2-A
Matrix: Solid
Analysis Batch: 43961

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43678

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09206		mg/Kg		92	70 - 130	11	35
Toluene			0.100	0.08730		mg/Kg		87	70 - 130	7	35
Ethylbenzene			0.100	0.09689		mg/Kg		97	70 - 130	2	35
m,p-Xylenes			0.200	0.1821		mg/Kg		91	70 - 130	1	35
o-Xylene			0.100	0.09499		mg/Kg		95	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-43910/5-A
Matrix: Solid
Analysis Batch: 43961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43910

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/23 13:50	01/16/23 14:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/23 13:50	01/16/23 14:39	1

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23509-1
Project/Site: Boo Radley SDG: 21-0105-08

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

Lab Sample ID: MB 880-43910/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 43961 **Prep Batch: 43910**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/23 13:50	01/16/23 14:39	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/13/23 13:50	01/16/23 14:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/23 13:50	01/16/23 14:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/13/23 13:50	01/16/23 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/13/23 13:50*	*01/16/23 14:39*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/13/23 13:50*	*01/16/23 14:39*	*1*

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

Lab Sample ID: MB 880-43803/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 43945 **Prep Batch: 43803**

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		01/12/23 11:39	01/15/23 08:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/12/23 11:39	01/15/23 08:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/12/23 11:39	01/15/23 08:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*172*	*S1+*	*70 - 130*	*01/12/23 11:39*	*01/15/23 08:29*	*1*
o-Terphenyl (Surr)	*175*	*S1+*	*70 - 130*	*01/12/23 11:39*	*01/15/23 08:29*	*1*

Lab Sample ID: LCS 880-43803/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 43945 **Prep Batch: 43803**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	903.8		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1001		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*103*		*70 - 130*
o-Terphenyl (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-43803/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 43945 **Prep Batch: 43803**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	939.8		mg/Kg		94	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	892.5		mg/Kg		89	70 - 130	11	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23509-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-43803/3-A
Matrix: Solid
Analysis Batch: 43945

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43803

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	107		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43645/1-A
Matrix: Solid
Analysis Batch: 43875

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			01/13/23 20:39	1

Lab Sample ID: LCS 880-43645/2-A
Matrix: Solid
Analysis Batch: 43875

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	273.5		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-43645/3-A
Matrix: Solid
Analysis Batch: 43875

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	274.2		mg/Kg		110	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23509-1
SDG: 21-0105-08

GC VOA

Prep Batch: 43678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23509-1	C-36 2.5'	Total/NA	Solid	5035	
880-23509-2	C-40 2.5'	Total/NA	Solid	5035	
880-23509-3	C-29 2.5'	Total/NA	Solid	5035	
880-23509-4	C-30 2.5'	Total/NA	Solid	5035	
MB 880-43678/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43678/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43678/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 43910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43910/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 43961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23509-1	C-36 2.5'	Total/NA	Solid	8021B	43678
880-23509-2	C-40 2.5'	Total/NA	Solid	8021B	43678
880-23509-3	C-29 2.5'	Total/NA	Solid	8021B	43678
880-23509-4	C-30 2.5'	Total/NA	Solid	8021B	43678
MB 880-43678/5-A	Method Blank	Total/NA	Solid	8021B	43678
MB 880-43910/5-A	Method Blank	Total/NA	Solid	8021B	43910
LCS 880-43678/1-A	Lab Control Sample	Total/NA	Solid	8021B	43678
LCSD 880-43678/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43678

Analysis Batch: 44178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23509-1	C-36 2.5'	Total/NA	Solid	Total BTEX	
880-23509-2	C-40 2.5'	Total/NA	Solid	Total BTEX	
880-23509-3	C-29 2.5'	Total/NA	Solid	Total BTEX	
880-23509-4	C-30 2.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23509-1	C-36 2.5'	Total/NA	Solid	8015NM Prep	
880-23509-2	C-40 2.5'	Total/NA	Solid	8015NM Prep	
880-23509-3	C-29 2.5'	Total/NA	Solid	8015NM Prep	
880-23509-4	C-30 2.5'	Total/NA	Solid	8015NM Prep	
MB 880-43803/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43803/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43803/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23509-1	C-36 2.5'	Total/NA	Solid	8015B NM	43803
880-23509-2	C-40 2.5'	Total/NA	Solid	8015B NM	43803
880-23509-3	C-29 2.5'	Total/NA	Solid	8015B NM	43803
880-23509-4	C-30 2.5'	Total/NA	Solid	8015B NM	43803
MB 880-43803/1-A	Method Blank	Total/NA	Solid	8015B NM	43803
LCS 880-43803/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43803
LCSD 880-43803/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43803

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23509-1
SDG: 21-0105-08

GC Semi VOA

Analysis Batch: 44041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23509-1	C-36 2.5'	Total/NA	Solid	8015 NM	
880-23509-2	C-40 2.5'	Total/NA	Solid	8015 NM	
880-23509-3	C-29 2.5'	Total/NA	Solid	8015 NM	
880-23509-4	C-30 2.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23509-1	C-36 2.5'	Soluble	Solid	DI Leach	
880-23509-2	C-40 2.5'	Soluble	Solid	DI Leach	
880-23509-3	C-29 2.5'	Soluble	Solid	DI Leach	
880-23509-4	C-30 2.5'	Soluble	Solid	DI Leach	
MB 880-43645/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43645/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43645/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 43875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23509-1	C-36 2.5'	Soluble	Solid	300.0	43645
880-23509-2	C-40 2.5'	Soluble	Solid	300.0	43645
880-23509-3	C-29 2.5'	Soluble	Solid	300.0	43645
880-23509-4	C-30 2.5'	Soluble	Solid	300.0	43645
MB 880-43645/1-A	Method Blank	Soluble	Solid	300.0	43645
LCS 880-43645/2-A	Lab Control Sample	Soluble	Solid	300.0	43645
LCSD 880-43645/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43645

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-23509-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-36 2.5' Lab Sample ID: 880-23509-1

Date Collected: 01/06/23 10:15 **Matrix: Solid**
Date Received: 01/10/23 10:58

Prep 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	43678	01/10/23 15:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43961	01/17/23 07:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44178	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44041	01/16/23 16:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43803	01/12/23 11:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43945	01/15/23 18:00	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43645	01/10/23 12:10	KS	EET MID
Soluble	Analysis	300.0		10			43875	01/13/23 22:55	CH	EET MID

Client Sample ID: C-40 2.5' Lab Sample ID: 880-23509-2

Date Collected: 01/06/23 10:17 **Matrix: Solid**
Date Received: 01/10/23 10:58

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	43678	01/10/23 15:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43961	01/17/23 08:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44178	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44041	01/16/23 16:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43803	01/12/23 11:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43945	01/15/23 18:21	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43645	01/10/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1			43875	01/13/23 23:01	CH	EET MID

Client Sample ID: C-29 2.5' Lab Sample ID: 880-23509-3

Date Collected: 01/06/23 10:20 **Matrix: Solid**
Date Received: 01/10/23 10:58

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	43678	01/10/23 15:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43961	01/17/23 08:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44178	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44041	01/16/23 16:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43803	01/12/23 11:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43945	01/15/23 18:42	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43645	01/10/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1			43875	01/13/23 23:06	CH	EET MID

Client Sample ID: C-30 2.5' Lab Sample ID: 880-23509-4

Date Collected: 01/06/23 10:22 **Matrix: Solid**
Date Received: 01/10/23 10:58

Prep 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	43678	01/10/23 15:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43961	01/17/23 08:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44178	01/17/23 14:40	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23509-1
SDG: 21-0105-08

Client Sample ID: C-30 2.5'
Date Collected: 01/06/23 10:22
Date Received: 01/10/23 10:58

Lab Sample ID: 880-23509-4
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			44041	01/16/23 16:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43803	01/12/23 11:39	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43945	01/15/23 19:04	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	43645	01/10/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5			43875	01/13/23 23:12	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: 880-23509-1
Project/Site: Boo Radley SDG: 21-0105-08

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: 880-23509-1
Project/Site: Boo Radley SDG: 21-0105-08

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: Boo Radley

Job ID: 880-23509-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23509-1	C-36 2.5'	Solid	01/06/23 10:15	01/10/23 10:58
880-23509-2	C-40 2.5'	Solid	01/06/23 10:17	01/10/23 10:58
880-23509-3	C-29 2.5'	Solid	01/06/23 10:20	01/10/23 10:58
880-23509-4	C-30 2.5'	Solid	01/06/23 10:22	01/10/23 10:58

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28509

No. 2788

CHAIN-OF-CUSTODY

1/17/2023

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

Data Reported to

DATE 1/6/2023 PAGE 1 OF 1

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME BOO RADLEY

LAI PROJECT # 21-0105-08 COLLECTOR DSG

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MNT/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	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 - 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-36 2.5'		1/6/23	1015	S	1				X		X		X	X	X														X	207
C-40 2.5'		1/6/23	1017	S	1				X		X		X	X	X														X	
C-29 2.5'		1/6/23	1020	S	1				X		X		X	X	X														X	
C-30 2.5'		1/6/23	1022	S	1				X		X		X	X	X														X	

TOTAL 4

880-23509 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Daniel O'Germano	1/10/22/1058	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY XENCO

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

LABORATORY USE ONLY:
RECEIVING TEMP 5.3/5.0 THERM# IR8 -30
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-23509-1
SDG Number: 21-0105-08

Login Number: 23509
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 1/30/2023 9:48:10 AM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

880-23716-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 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
1/30/2023 9:48:10 AM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 880-23716-1
SDG: 21-0105-08

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Released to Imaging: 1/9/2024 10:58:26 AM

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

Job ID: 880-23716-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-23716-1

Receipt
The samples were received on 1/16/2023 11:55 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 time was 5.3°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-43 3.5' (880-23716-1), C-44 3.5' (880-23716-2), C-45 3.5' (880-23716-3), C-47 3.5' (880-23716-4), C-46 3.5' (880-23716-5), C-54 3.5' (880-23716-6), C-26 2.5 (880-23716-7), C-33 2.5 (880-23716-8), C-34 2.5 (880-23716-9), C-49 4.5 (880-23716-10), C-6 10' (880-23716-11), C-7 10' (880-23716-12), C-9 10' (880-23716-13), C-10 10' (880-23716-14) and C-8 10' (880-23716-15).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-44016 and analytical batch 880-44222 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.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-44016 and analytical batch 880-44222 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m,p-Xylenes and o-Xylene.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-44318 and analytical batch 880-44899 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.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-43 3.5' (880-23716-1), C-47 3.5' (880-23716-4), C-6 10' (880-23716-11), C-7 10' (880-23716-12), C-10 10' (880-23716-14), (LCS 880-44318/2-A), (MB 880-44318/1-A), (880-23716-A-1-F MS) and (880-23716-A-1-G MSD). Evidence of matrix interferences is not obvious.

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

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

Released to Imaging: 1/9/2024 10:58:26 AM

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

Client Sample ID: C-43 3.5'

Date Collected: 01/11/23 14:25
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		01/16/23 16:20	01/19/23 02:57	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		01/16/23 16:20	01/19/23 02:57	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		01/16/23 16:20	01/19/23 02:57	1
m,p-Xylenes	<0.00401	U F1	0.00401		mg/Kg		01/16/23 16:20	01/19/23 02:57	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		01/16/23 16:20	01/19/23 02:57	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		01/16/23 16:20	01/19/23 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/16/23 16:20*	*01/19/23 02:57*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/16/23 16:20*	*01/19/23 02:57*	*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			01/19/23 17:01	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			01/30/23 09:56	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 F1 F2	49.9		mg/Kg		01/19/23 10:32	01/28/23 03:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	49.9		mg/Kg		01/19/23 10:32	01/28/23 03:13	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/23 10:32	01/28/23 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*68*	*S1-*	*70 - 130*	*01/19/23 10:32*	*01/28/23 03:13*	*1*
o-Terphenyl (Surr)	*64*	*S1-*	*70 - 130*	*01/19/23 10:32*	*01/28/23 03:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**674**		4.99		mg/Kg			01/19/23 14:37	1

Client Sample ID: C-44 3.5'

Date Collected: 01/11/23 14:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-2
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		01/16/23 16:20	01/19/23 03:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 03:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 03:23	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 03:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 03:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/16/23 16:20*	*01/19/23 03:23*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/16/23 16:20*	*01/19/23 03:23*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

Client Sample ID: C-44 3.5'

Date Collected: 01/11/23 14:30
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-2
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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 04:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/19/23 10:32	01/28/23 04:24	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/19/23 10:32	01/28/23 04:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*73*		*70 - 130*	*01/19/23 10:32*	*01/28/23 04:24*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*01/19/23 10:32*	*01/28/23 04:24*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**825**		5.05		mg/Kg			01/19/23 14:43	1

Client Sample ID: C-45 3.5'

Date Collected: 01/11/23 14:32
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-3
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		01/16/23 16:20	01/19/23 03:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 03:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 03:49	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 03:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 03:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/16/23 16:20*	*01/19/23 03:49*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/16/23 16:20*	*01/19/23 03:49*	*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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 04:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/19/23 10:32	01/28/23 04:47	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-45 3.5'
Lab Sample ID: 880-23716-3
Date Collected: 01/11/23 14:32 **Matrix: Solid**
Date Received: 01/16/23 11:55

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		01/19/23 10:32	01/28/23 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*01/19/23 10:32*	*01/28/23 04:47*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*01/19/23 10:32*	*01/28/23 04:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**139**		5.04		mg/Kg			01/19/23 14:48	1

Client Sample ID: C-47 3.5'
Lab Sample ID: 880-23716-4
Date Collected: 01/11/23 14:34 **Matrix: Solid**
Date Received: 01/16/23 11:55

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		01/16/23 16:20	01/19/23 04:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:20	01/19/23 04:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:20	01/19/23 04:16	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/16/23 16:20	01/19/23 04:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:20	01/19/23 04:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/16/23 16:20	01/19/23 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/16/23 16:20*	*01/19/23 04:16*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/16/23 16:20*	*01/19/23 04:16*	*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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 05:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/19/23 10:32	01/28/23 05:09	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/19/23 10:32	01/28/23 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*01/19/23 10:32*	*01/28/23 05:09*	*1*
o-Terphenyl (Surr)	*137*	*S1+*	*70 - 130*	*01/19/23 10:32*	*01/28/23 05:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**480**		5.00		mg/Kg			01/19/23 17:25	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

Client Sample ID: C-46 3.5'

Lab Sample ID: 880-23716-5
Matrix: Solid
Date Collected: 01/11/23 14:40
Date Received: 01/16/23 11:55

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		01/16/23 16:20	01/19/23 04:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/16/23 16:20	01/19/23 04:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/16/23 16:20	01/19/23 04:42	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		01/16/23 16:20	01/19/23 04:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/16/23 16:20	01/19/23 04:42	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/16/23 16:20	01/19/23 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/16/23 16:20*	*01/19/23 04:42*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*01/16/23 16:20*	*01/19/23 04:42*	*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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 05:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/19/23 10:32	01/28/23 05:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/23 10:32	01/28/23 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*01/19/23 10:32*	*01/28/23 05:30*	*1*
o-Terphenyl (Surr)	*126*		*70 - 130*	*01/19/23 10:32*	*01/28/23 05:30*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**614**		5.00		mg/Kg			01/19/23 17:31	1

Client Sample ID: C-54 3.5'

Lab Sample ID: 880-23716-6
Matrix: Solid
Date Collected: 01/11/23 14:42
Date Received: 01/16/23 11:55

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		01/16/23 16:20	01/19/23 05:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:20	01/19/23 05:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:20	01/19/23 05:09	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/16/23 16:20	01/19/23 05:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:20	01/19/23 05:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/16/23 16:20	01/19/23 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*01/16/23 16:20*	*01/19/23 05:09*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/16/23 16:20*	*01/19/23 05:09*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-54 3.5'
Lab Sample ID: 880-23716-6
Date Collected: 01/11/23 14:42 **Matrix: Solid**
Date Received: 01/16/23 11:55

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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 05:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/23 10:32	01/28/23 05:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/23 10:32	01/28/23 05:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*01/19/23 10:32*	*01/28/23 05:51*	*1*
o-Terphenyl (Surr)	*128*		*70 - 130*	*01/19/23 10:32*	*01/28/23 05:51*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**564**		5.03		mg/Kg			01/19/23 17:37	1

Client Sample ID: C-26 2.5
Lab Sample ID: 880-23716-7
Date Collected: 01/12/23 09:58 **Matrix: Solid**
Date Received: 01/16/23 11:55

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		01/16/23 16:20	01/19/23 05:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 05:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 05:35	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 05:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 05:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*01/16/23 16:20*	*01/19/23 05:35*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*01/16/23 16:20*	*01/19/23 05:35*	*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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 06:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/23 10:32	01/28/23 06:13	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-26 2.5 — Lab Sample ID: 880-23716-7

Date Collected: 01/12/23 09:58 **Matrix: Solid**
Date Received: 01/16/23 11:55

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		01/19/23 10:32	01/28/23 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*01/19/23 10:32*	*01/28/23 06:13*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*01/19/23 10:32*	*01/28/23 06:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.7**		5.02		mg/Kg			01/19/23 17:43	1

Client Sample ID: C-33 2.5 — Lab Sample ID: 880-23716-8

Date Collected: 01/12/23 10:00 **Matrix: Solid**
Date Received: 01/16/23 11:55

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		01/16/23 16:20	01/19/23 06:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 06:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 06:01	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 06:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 06:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/16/23 16:20*	*01/19/23 06:01*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*01/16/23 16:20*	*01/19/23 06:01*	*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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 06:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/23 10:32	01/28/23 06:34	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/23 10:32	01/28/23 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*01/19/23 10:32*	*01/28/23 06:34*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*01/19/23 10:32*	*01/28/23 06:34*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**402**		4.98		mg/Kg			01/19/23 17:49	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

Client Sample ID: C-34 2.5

Date Collected: 01/12/23 10:02
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-9

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		01/16/23 16:20	01/19/23 06:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 06:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 06:28	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 06:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 06:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*01/16/23 16:20*	*01/19/23 06:28*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/16/23 16:20*	*01/19/23 06:28*	*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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 06:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/19/23 10:32	01/28/23 06:56	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/23 10:32	01/28/23 06:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*01/19/23 10:32*	*01/28/23 06:56*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*01/19/23 10:32*	*01/28/23 06:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61.7**		4.96		mg/Kg			01/19/23 17:55	1

Client Sample ID: C-49 4.5

Date Collected: 01/12/23 13:50
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-10

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		01/16/23 16:20	01/19/23 06:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:20	01/19/23 06:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:20	01/19/23 06:55	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/16/23 16:20	01/19/23 06:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:20	01/19/23 06:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/16/23 16:20	01/19/23 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*01/16/23 16:20*	*01/19/23 06:55*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/16/23 16:20*	*01/19/23 06:55*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

Client Sample ID: C-49 4.5

Date Collected: 01/12/23 13:50
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-10

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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 07:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/19/23 10:32	01/28/23 07:19	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/23 10:32	01/28/23 07:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*78*		*70 - 130*	*01/19/23 10:32*	*01/28/23 07:19*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*01/19/23 10:32*	*01/28/23 07:19*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.7**		5.04		mg/Kg			01/19/23 18:12	1

Client Sample ID: C-6 10'

Date Collected: 01/13/23 10:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-11

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		01/16/23 16:20	01/19/23 08:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/23 16:20	01/19/23 08:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/16/23 16:20	01/19/23 08:40	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/16/23 16:20	01/19/23 08:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/16/23 16:20	01/19/23 08:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/16/23 16:20	01/19/23 08:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/16/23 16:20*	*01/19/23 08:40*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/16/23 16:20*	*01/19/23 08:40*	*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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 08:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/23 10:32	01/28/23 08:06	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-6 10'
Lab Sample ID: 880-23716-11
Date Collected: 01/13/23 10:15 **Matrix: Solid**
Date Received: 01/16/23 11:55

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		01/19/23 10:32	01/28/23 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*45*	*S1-*	*70 - 130*	*01/19/23 10:32*	*01/28/23 08:06*	*1*
o-Terphenyl (Surr)	*40*	*S1-*	*70 - 130*	*01/19/23 10:32*	*01/28/23 08:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2870**		49.7		mg/Kg			01/19/23 18:18	10

Client Sample ID: C-7 10'
Lab Sample ID: 880-23716-12
Date Collected: 01/13/23 10:17 **Matrix: Solid**
Date Received: 01/16/23 11:55

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		01/16/23 16:20	01/19/23 09:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/16/23 16:20	01/19/23 09:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/16/23 16:20	01/19/23 09:07	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/16/23 16:20	01/19/23 09:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/16/23 16:20	01/19/23 09:07	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/16/23 16:20	01/19/23 09:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*01/16/23 16:20*	*01/19/23 09:07*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/16/23 16:20*	*01/19/23 09:07*	*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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 08:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/23 10:32	01/28/23 08:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/23 10:32	01/28/23 08:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*30*	*S1-*	*70 - 130*	*01/19/23 10:32*	*01/28/23 08:29*	*1*
o-Terphenyl (Surr)	*26*	*S1-*	*70 - 130*	*01/19/23 10:32*	*01/28/23 08:29*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1910**		50.3		mg/Kg			01/19/23 18:36	10

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-9 10'
Lab Sample ID: 880-23716-13
Date Collected: 01/13/23 10:19 **Matrix: Solid**
Date Received: 01/16/23 11:55

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		01/16/23 16:20	01/19/23 09:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 09:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 09:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 09:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 09:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 09:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/16/23 16:20*	*01/19/23 09:33*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/16/23 16:20*	*01/19/23 09:33*	*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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 08:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/23 10:32	01/28/23 08:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/23 10:32	01/28/23 08:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*01/19/23 10:32*	*01/28/23 08:51*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*01/19/23 10:32*	*01/28/23 08:51*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1730**		50.0		mg/Kg			01/19/23 18:41	10

Client Sample ID: C-10 10'
Lab Sample ID: 880-23716-14
Date Collected: 01/13/23 10:21 **Matrix: Solid**
Date Received: 01/16/23 11:55

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		01/16/23 16:20	01/19/23 09:59	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/16/23 16:20	01/19/23 09:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/16/23 16:20	01/19/23 09:59	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		01/16/23 16:20	01/19/23 09:59	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/16/23 16:20	01/19/23 09:59	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/16/23 16:20	01/19/23 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/16/23 16:20*	*01/19/23 09:59*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/16/23 16:20*	*01/19/23 09:59*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-10 10'
Lab Sample ID: 880-23716-14
Date Collected: 01/13/23 10:21 **Matrix: Solid**
Date Received: 01/16/23 11:55

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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 09:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/19/23 10:32	01/28/23 09:14	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/23 10:32	01/28/23 09:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*45*	*S1-*	*70 - 130*	*01/19/23 10:32*	*01/28/23 09:14*	*1*
o-Terphenyl (Surr)	*44*	*S1-*	*70 - 130*	*01/19/23 10:32*	*01/28/23 09:14*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1950**		49.8		mg/Kg			01/19/23 18:47	10

Client Sample ID: C-8 10'
Lab Sample ID: 880-23716-15
Date Collected: 01/13/23 10:25 **Matrix: Solid**
Date Received: 01/16/23 11:55

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		01/16/23 16:20	01/19/23 10:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 10:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 10:26	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 10:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/16/23 16:20	01/19/23 10:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/16/23 16:20	01/19/23 10:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/16/23 16:20*	*01/19/23 10:26*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*01/16/23 16:20*	*01/19/23 10:26*	*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			01/19/23 17:01	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			01/30/23 09:56	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		01/19/23 10:32	01/28/23 09:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/19/23 10:32	01/28/23 09:36	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

Client Sample ID: C-8 10'
Date Collected: 01/13/23 10:25
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-15
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		01/19/23 10:32	01/28/23 09:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*01/19/23 10:32*	*01/28/23 09:36*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*01/19/23 10:32*	*01/28/23 09:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1790**		24.9		mg/Kg			01/19/23 18:53	5

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

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)
880-23716-1	C-43 3.5'	119	89
880-23716-1 MS	C-43 3.5'	114	94
880-23716-1 MSD	C-43 3.5'	104	86
880-23716-2	C-44 3.5'	111	86
880-23716-3	C-45 3.5'	104	86
880-23716-4	C-47 3.5'	119	90
880-23716-5	C-46 3.5'	107	80
880-23716-6	C-54 3.5'	131 S1+	100
880-23716-7	C-26 2.5	126	87
880-23716-8	C-33 2.5	109	84
880-23716-9	C-34 2.5	105	89
880-23716-10	C-49 4.5	129	97
880-23716-11	C-6 10'	114	91
880-23716-12	C-7 10'	112	89
880-23716-13	C-9 10'	115	88
880-23716-14	C-10 10'	119	93
880-23716-15	C-8 10'	99	82
LCS 880-44016/1-A	Lab Control Sample	11 S1-	95
LCSD 880-44016/2-A	Lab Control Sample Dup	120	98
LCSD 880-44052/2-A	Lab Control Sample Dup	106	98
MB 880-44016/5-A	Method Blank	76	83
MB 880-44052/5-A	Method Blank	74	89

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-23716-1	C-43 3.5'	68 S1-	64 S1-
880-23716-1 MS	C-43 3.5'	20 S1-	12 S1-
880-23716-1 MSD	C-43 3.5'	59 S1-	55 S1-
880-23716-2	C-44 3.5'	73	79
880-23716-3	C-45 3.5'	84	89
880-23716-4	C-47 3.5'	119	137 S1+
880-23716-5	C-46 3.5'	112	126
880-23716-6	C-54 3.5'	120	128
880-23716-7	C-26 2.5	101	113
880-23716-8	C-33 2.5	110	116
880-23716-9	C-34 2.5	117	121
880-23716-10	C-49 4.5	78	85
880-23716-11	C-6 10'	45 S1-	40 S1-
880-23716-12	C-7 10'	30 S1-	26 S1-
880-23716-13	C-9 10'	81	80
880-23716-14	C-10 10'	45 S1-	44 S1-
880-23716-15	C-8 10'	96	106

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

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)								
LCS 880-44318/2-A	Lab Control Sample	124	133 S1+								
LCSD 880-44318/3-A	Lab Control Sample Dup	106	114								
MB 880-44318/1-A	Method Blank	163 S1+	180 S1+								

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44016/5-A
Matrix: Solid
Analysis Batch: 44222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44016

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:20	01/19/23 02:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:20	01/19/23 02:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:20	01/19/23 02:30	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/16/23 16:20	01/19/23 02:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:20	01/19/23 02:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/16/23 16:20	01/19/23 02:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*01/16/23 16:20*	*01/19/23 02:30*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*01/16/23 16:20*	*01/19/23 02:30*	*1*

Lab Sample ID: LCS 880-44016/1-A
Matrix: Solid
Analysis Batch: 44222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44016

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1108		mg/Kg		111	70 - 130		
Toluene			0.100	0.09692		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09258		mg/Kg		93	70 - 130		
m,p-Xylenes			0.200	0.1999		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.1035		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*11*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-44016/2-A
Matrix: Solid
Analysis Batch: 44222

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44016

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.200	0.08141	*-	mg/Kg		41	70 - 130	31	35
Toluene			0.201	0.07294	*-	mg/Kg		36	70 - 130	28	35
Ethylbenzene			0.200	0.07234	*-	mg/Kg		36	70 - 130	25	35
m,p-Xylenes			0.401	0.1555	*-	mg/Kg		39	70 - 130	25	35
o-Xylene			0.201	0.08100	*-	mg/Kg		40	70 - 130	24	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-23716-1 MS
Matrix: Solid
Analysis Batch: 44222

Client Sample ID: C-43 3.5'
Prep Type: Total/NA
Prep Batch: 44016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1	0.0990	0.03191	F1	mg/Kg		32	70 - 130		
Toluene	<0.00200	U F1	0.0990	0.03155	F1	mg/Kg		32	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

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

Lab Sample ID: 880-23716-1 MS — **Client Sample ID: C-43 3.5'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 44222 — **Prep Batch: 44016**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.0990	0.03721	F1	mg/Kg		38	70 - 130
m,p-Xylenes	<0.00401	U F1	0.198	0.07804	F1	mg/Kg		39	70 - 130
o-Xylene	<0.00200	U F1	0.0990	0.04530	F1	mg/Kg		46	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-23716-1 MSD — **Client Sample ID: C-43 3.5'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 44222 — **Prep Batch: 44016**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0998	0.03114	F1	mg/Kg		31	70 - 130	2	35
Toluene	<0.00200	U F1	0.0998	0.02832	F1	mg/Kg		28	70 - 130	11	35
Ethylbenzene	<0.00200	U F1	0.0998	0.02981	F1	mg/Kg		30	70 - 130	22	35
m,p-Xylenes	<0.00401	U F1	0.200	0.06727	F1	mg/Kg		34	70 - 130	15	35
o-Xylene	<0.00200	U F1	0.0998	0.03666	F1	mg/Kg		37	70 - 130	21	35

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

Lab Sample ID: MB 880-44052/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 44222 — **Prep Batch: 44052**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:46	01/18/23 12:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:46	01/18/23 12:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:46	01/18/23 12:23	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/16/23 16:46	01/18/23 12:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/23 16:46	01/18/23 12:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/16/23 16:46	01/18/23 12:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*01/16/23 16:46*	*01/18/23 12:23*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/16/23 16:46*	*01/18/23 12:23*	*1*

Lab Sample ID: LCSD 880-44052/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 44222 — **Prep Batch: 44052**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1066		mg/Kg		107	70 - 130	19	35
Toluene			0.100	0.09138		mg/Kg		91	70 - 130	17	35
Ethylbenzene			0.100	0.08818		mg/Kg		88	70 - 130	10	35
m,p-Xylenes			0.200	0.1899		mg/Kg		95	70 - 130	9	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-44052/2-A
Matrix: Solid
Analysis Batch: 44222

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44052

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o-Xylene			0.100	0.09756		mg/Kg		98	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-44318/1-A
Matrix: Solid
Analysis Batch: 44899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44318

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		01/19/23 10:32	01/28/23 01:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/23 10:32	01/28/23 01:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/23 10:32	01/28/23 01:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*163*	*S1+*	*70 - 130*	*01/19/23 10:32*	*01/28/23 01:58*	*1*
o-Terphenyl (Surr)	*180*	*S1+*	*70 - 130*	*01/19/23 10:32*	*01/28/23 01:58*	*1*

Lab Sample ID: LCS 880-44318/2-A
Matrix: Solid
Analysis Batch: 44899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44318

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	888.4		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1297		mg/Kg		130	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*124*		*70 - 130*
o-Terphenyl (Surr)	*133*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-44318/3-A
Matrix: Solid
Analysis Batch: 44899

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44318

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	841.7		mg/Kg		84	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1220		mg/Kg		122	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*106*		*70 - 130*

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-44318/3-A
Matrix: Solid
Analysis Batch: 44899

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44318

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl (Surr)	114		70 - 130

Lab Sample ID: 880-23716-1 MS
Matrix: Solid
Analysis Batch: 44899

Client Sample ID: C-43 3.5'
Prep Type: Total/NA
Prep Batch: 44318

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 F1 F2	998	210.5	F1	mg/Kg		21	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	998	141.6	F1	mg/Kg		13	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	20	S1-	70 - 130
o-Terphenyl (Surr)	12	S1-	70 - 130

Lab Sample ID: 880-23716-1 MSD
Matrix: Solid
Analysis Batch: 44899

Client Sample ID: C-43 3.5'
Prep Type: Total/NA
Prep Batch: 44318

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 F1 F2	997	994.6	F2	mg/Kg		100	70 - 130	130	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	997	616.8	F1 F2	mg/Kg		60	70 - 130	125	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	59	S1-	70 - 130
o-Terphenyl (Surr)	55	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44238/1-A
Matrix: Solid
Analysis Batch: 44368

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			01/19/23 13:56	1

Lab Sample ID: LCS 880-44238/2-A
Matrix: Solid
Analysis Batch: 44368

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	247.6		mg/Kg		99	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-44238/3-A
Matrix: Solid
Analysis Batch: 44368

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	246.6		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-23716-9 MS
Matrix: Solid
Analysis Batch: 44368

Client Sample ID: C-34 2.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	61.7		248	334.7		mg/Kg		110	90 - 110		

Lab Sample ID: 880-23716-9 MSD
Matrix: Solid
Analysis Batch: 44368

Client Sample ID: C-34 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	61.7		248	335.4		mg/Kg		110	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

GC VOA

Prep Batch: 44016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23716-1	C-43 3.5'	Total/NA	Solid	5035	
880-23716-2	C-44 3.5'	Total/NA	Solid	5035	
880-23716-3	C-45 3.5'	Total/NA	Solid	5035	
880-23716-4	C-47 3.5'	Total/NA	Solid	5035	
880-23716-5	C-46 3.5'	Total/NA	Solid	5035	
880-23716-6	C-54 3.5'	Total/NA	Solid	5035	
880-23716-7	C-26 2.5	Total/NA	Solid	5035	
880-23716-8	C-33 2.5	Total/NA	Solid	5035	
880-23716-9	C-34 2.5	Total/NA	Solid	5035	
880-23716-10	C-49 4.5	Total/NA	Solid	5035	
880-23716-11	C-6 10'	Total/NA	Solid	5035	
880-23716-12	C-7 10'	Total/NA	Solid	5035	
880-23716-13	C-9 10'	Total/NA	Solid	5035	
880-23716-14	C-10 10'	Total/NA	Solid	5035	
880-23716-15	C-8 10'	Total/NA	Solid	5035	
MB 880-44016/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44016/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44016/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23716-1 MS	C-43 3.5'	Total/NA	Solid	5035	
880-23716-1 MSD	C-43 3.5'	Total/NA	Solid	5035	

Prep Batch: 44052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44052/5-A	Method Blank	Total/NA	Solid	5035	
LCSD 880-44052/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 44222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23716-1	C-43 3.5'	Total/NA	Solid	8021B	44016
880-23716-2	C-44 3.5'	Total/NA	Solid	8021B	44016
880-23716-3	C-45 3.5'	Total/NA	Solid	8021B	44016
880-23716-4	C-47 3.5'	Total/NA	Solid	8021B	44016
880-23716-5	C-46 3.5'	Total/NA	Solid	8021B	44016
880-23716-6	C-54 3.5'	Total/NA	Solid	8021B	44016
880-23716-7	C-26 2.5	Total/NA	Solid	8021B	44016
880-23716-8	C-33 2.5	Total/NA	Solid	8021B	44016
880-23716-9	C-34 2.5	Total/NA	Solid	8021B	44016
880-23716-10	C-49 4.5	Total/NA	Solid	8021B	44016
880-23716-11	C-6 10'	Total/NA	Solid	8021B	44016
880-23716-12	C-7 10'	Total/NA	Solid	8021B	44016
880-23716-13	C-9 10'	Total/NA	Solid	8021B	44016
880-23716-14	C-10 10'	Total/NA	Solid	8021B	44016
880-23716-15	C-8 10'	Total/NA	Solid	8021B	44016
MB 880-44016/5-A	Method Blank	Total/NA	Solid	8021B	44016
MB 880-44052/5-A	Method Blank	Total/NA	Solid	8021B	44052
LCS 880-44016/1-A	Lab Control Sample	Total/NA	Solid	8021B	44016
LCSD 880-44016/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44016
LCSD 880-44052/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44052
880-23716-1 MS	C-43 3.5'	Total/NA	Solid	8021B	44016
880-23716-1 MSD	C-43 3.5'	Total/NA	Solid	8021B	44016

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

GC VOA

Analysis Batch: 44396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23716-1	C-43 3.5'	Total/NA	Solid	Total BTEX	
880-23716-2	C-44 3.5'	Total/NA	Solid	Total BTEX	
880-23716-3	C-45 3.5'	Total/NA	Solid	Total BTEX	
880-23716-4	C-47 3.5'	Total/NA	Solid	Total BTEX	
880-23716-5	C-46 3.5'	Total/NA	Solid	Total BTEX	
880-23716-6	C-54 3.5'	Total/NA	Solid	Total BTEX	
880-23716-7	C-26 2.5	Total/NA	Solid	Total BTEX	
880-23716-8	C-33 2.5	Total/NA	Solid	Total BTEX	
880-23716-9	C-34 2.5	Total/NA	Solid	Total BTEX	
880-23716-10	C-49 4.5	Total/NA	Solid	Total BTEX	
880-23716-11	C-6 10'	Total/NA	Solid	Total BTEX	
880-23716-12	C-7 10'	Total/NA	Solid	Total BTEX	
880-23716-13	C-9 10'	Total/NA	Solid	Total BTEX	
880-23716-14	C-10 10'	Total/NA	Solid	Total BTEX	
880-23716-15	C-8 10'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 44318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23716-1	C-43 3.5'	Total/NA	Solid	8015NM Prep	
880-23716-2	C-44 3.5'	Total/NA	Solid	8015NM Prep	
880-23716-3	C-45 3.5'	Total/NA	Solid	8015NM Prep	
880-23716-4	C-47 3.5'	Total/NA	Solid	8015NM Prep	
880-23716-5	C-46 3.5'	Total/NA	Solid	8015NM Prep	
880-23716-6	C-54 3.5'	Total/NA	Solid	8015NM Prep	
880-23716-7	C-26 2.5	Total/NA	Solid	8015NM Prep	
880-23716-8	C-33 2.5	Total/NA	Solid	8015NM Prep	
880-23716-9	C-34 2.5	Total/NA	Solid	8015NM Prep	
880-23716-10	C-49 4.5	Total/NA	Solid	8015NM Prep	
880-23716-11	C-6 10'	Total/NA	Solid	8015NM Prep	
880-23716-12	C-7 10'	Total/NA	Solid	8015NM Prep	
880-23716-13	C-9 10'	Total/NA	Solid	8015NM Prep	
880-23716-14	C-10 10'	Total/NA	Solid	8015NM Prep	
880-23716-15	C-8 10'	Total/NA	Solid	8015NM Prep	
MB 880-44318/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44318/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44318/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23716-1 MS	C-43 3.5'	Total/NA	Solid	8015NM Prep	
880-23716-1 MSD	C-43 3.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23716-1	C-43 3.5'	Total/NA	Solid	8015B NM	44318
880-23716-2	C-44 3.5'	Total/NA	Solid	8015B NM	44318
880-23716-3	C-45 3.5'	Total/NA	Solid	8015B NM	44318
880-23716-4	C-47 3.5'	Total/NA	Solid	8015B NM	44318
880-23716-5	C-46 3.5'	Total/NA	Solid	8015B NM	44318
880-23716-6	C-54 3.5'	Total/NA	Solid	8015B NM	44318
880-23716-7	C-26 2.5	Total/NA	Solid	8015B NM	44318
880-23716-8	C-33 2.5	Total/NA	Solid	8015B NM	44318

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

GC Semi VOA (Continued)

Analysis Batch: 44899 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23716-9	C-34 2.5	Total/NA	Solid	8015B NM	44318
880-23716-10	C-49 4.5	Total/NA	Solid	8015B NM	44318
880-23716-11	C-6 10'	Total/NA	Solid	8015B NM	44318
880-23716-12	C-7 10'	Total/NA	Solid	8015B NM	44318
880-23716-13	C-9 10'	Total/NA	Solid	8015B NM	44318
880-23716-14	C-10 10'	Total/NA	Solid	8015B NM	44318
880-23716-15	C-8 10'	Total/NA	Solid	8015B NM	44318
MB 880-44318/1-A	Method Blank	Total/NA	Solid	8015B NM	44318
LCS 880-44318/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44318
LCSD 880-44318/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44318
880-23716-1 MS	C-43 3.5'	Total/NA	Solid	8015B NM	44318
880-23716-1 MSD	C-43 3.5'	Total/NA	Solid	8015B NM	44318

Analysis Batch: 44997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23716-1	C-43 3.5'	Total/NA	Solid	8015 NM	
880-23716-2	C-44 3.5'	Total/NA	Solid	8015 NM	
880-23716-3	C-45 3.5'	Total/NA	Solid	8015 NM	
880-23716-4	C-47 3.5'	Total/NA	Solid	8015 NM	
880-23716-5	C-46 3.5'	Total/NA	Solid	8015 NM	
880-23716-6	C-54 3.5'	Total/NA	Solid	8015 NM	
880-23716-7	C-26 2.5	Total/NA	Solid	8015 NM	
880-23716-8	C-33 2.5	Total/NA	Solid	8015 NM	
880-23716-9	C-34 2.5	Total/NA	Solid	8015 NM	
880-23716-10	C-49 4.5	Total/NA	Solid	8015 NM	
880-23716-11	C-6 10'	Total/NA	Solid	8015 NM	
880-23716-12	C-7 10'	Total/NA	Solid	8015 NM	
880-23716-13	C-9 10'	Total/NA	Solid	8015 NM	
880-23716-14	C-10 10'	Total/NA	Solid	8015 NM	
880-23716-15	C-8 10'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23716-1	C-43 3.5'	Soluble	Solid	DI Leach	
880-23716-2	C-44 3.5'	Soluble	Solid	DI Leach	
880-23716-3	C-45 3.5'	Soluble	Solid	DI Leach	
880-23716-4	C-47 3.5'	Soluble	Solid	DI Leach	
880-23716-5	C-46 3.5'	Soluble	Solid	DI Leach	
880-23716-6	C-54 3.5'	Soluble	Solid	DI Leach	
880-23716-7	C-26 2.5	Soluble	Solid	DI Leach	
880-23716-8	C-33 2.5	Soluble	Solid	DI Leach	
880-23716-9	C-34 2.5	Soluble	Solid	DI Leach	
880-23716-10	C-49 4.5	Soluble	Solid	DI Leach	
880-23716-11	C-6 10'	Soluble	Solid	DI Leach	
880-23716-12	C-7 10'	Soluble	Solid	DI Leach	
880-23716-13	C-9 10'	Soluble	Solid	DI Leach	
880-23716-14	C-10 10'	Soluble	Solid	DI Leach	
880-23716-15	C-8 10'	Soluble	Solid	DI Leach	
MB 880-44238/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

HPLC/IC (Continued)

Leach Batch: 44238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-44238/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44238/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23716-9 MS	C-34 2.5	Soluble	Solid	DI Leach	
880-23716-9 MSD	C-34 2.5	Soluble	Solid	DI Leach	

Analysis Batch: 44368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23716-1	C-43 3.5'	Soluble	Solid	300.0	44238
880-23716-2	C-44 3.5'	Soluble	Solid	300.0	44238
880-23716-3	C-45 3.5'	Soluble	Solid	300.0	44238
880-23716-4	C-47 3.5'	Soluble	Solid	300.0	44238
880-23716-5	C-46 3.5'	Soluble	Solid	300.0	44238
880-23716-6	C-54 3.5'	Soluble	Solid	300.0	44238
880-23716-7	C-26 2.5	Soluble	Solid	300.0	44238
880-23716-8	C-33 2.5	Soluble	Solid	300.0	44238
880-23716-9	C-34 2.5	Soluble	Solid	300.0	44238
880-23716-10	C-49 4.5	Soluble	Solid	300.0	44238
880-23716-11	C-6 10'	Soluble	Solid	300.0	44238
880-23716-12	C-7 10'	Soluble	Solid	300.0	44238
880-23716-13	C-9 10'	Soluble	Solid	300.0	44238
880-23716-14	C-10 10'	Soluble	Solid	300.0	44238
880-23716-15	C-8 10'	Soluble	Solid	300.0	44238
MB 880-44238/1-A	Method Blank	Soluble	Solid	300.0	44238
LCS 880-44238/2-A	Lab Control Sample	Soluble	Solid	300.0	44238
LCSD 880-44238/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44238
880-23716-9 MS	C-34 2.5	Soluble	Solid	300.0	44238
880-23716-9 MSD	C-34 2.5	Soluble	Solid	300.0	44238

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

Client Sample ID: C-43 3.5'

Lab Sample ID: 880-23716-1
Matrix: Solid
Date Collected: 01/11/23 14:25
Date Received: 01/16/23 11:55

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	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 02:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 03:13	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		1			44368	01/19/23 14:37	CH	EET MID

Client Sample ID: C-44 3.5'

Lab Sample ID: 880-23716-2
Matrix: Solid
Date Collected: 01/11/23 14:30
Date Received: 01/16/23 11:55

Prep 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	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 03:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 04:24	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		1			44368	01/19/23 14:43	CH	EET MID

Client Sample ID: C-45 3.5'

Lab Sample ID: 880-23716-3
Matrix: Solid
Date Collected: 01/11/23 14:32
Date Received: 01/16/23 11:55

Prep 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	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 03:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 04:47	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		1			44368	01/19/23 14:48	CH	EET MID

Client Sample ID: C-47 3.5'

Lab Sample ID: 880-23716-4
Matrix: Solid
Date Collected: 01/11/23 14:34
Date Received: 01/16/23 11:55

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	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 04:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID

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Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-47 3.5' Lab Sample ID: 880-23716-4

Date Collected: 01/11/23 14:34 **Matrix: Solid**
Date Received: 01/16/23 11:55

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			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 05:09	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		1			44368	01/19/23 17:25	CH	EET MID

Client Sample ID: C-46 3.5' Lab Sample ID: 880-23716-5

Date Collected: 01/11/23 14:40 **Matrix: Solid**
Date Received: 01/16/23 11:55

Prep 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	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 04:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 05:30	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		1			44368	01/19/23 17:31	CH	EET MID

Client Sample ID: C-54 3.5' Lab Sample ID: 880-23716-6

Date Collected: 01/11/23 14:42 **Matrix: Solid**
Date Received: 01/16/23 11:55

Prep 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	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 05:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 05:51	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		1			44368	01/19/23 17:37	CH	EET MID

Client Sample ID: C-26 2.5 Lab Sample ID: 880-23716-7

Date Collected: 01/12/23 09:58 **Matrix: Solid**
Date Received: 01/16/23 11:55

Prep 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	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 05:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 06:13	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-26 2.5 — Lab Sample ID: 880-23716-7

Date Collected: 01/12/23 09:58 **Matrix: Solid**
Date Received: 01/16/23 11:55

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	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		1			44368	01/19/23 17:43	CH	EET MID

Client Sample ID: C-33 2.5 — Lab Sample ID: 880-23716-8

Date Collected: 01/12/23 10:00 **Matrix: Solid**
Date Received: 01/16/23 11:55

Prep 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	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 06:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 06:34	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		1			44368	01/19/23 17:49	CH	EET MID

Client Sample ID: C-34 2.5 — Lab Sample ID: 880-23716-9

Date Collected: 01/12/23 10:02 **Matrix: Solid**
Date Received: 01/16/23 11:55

Prep 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	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 06:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 06:56	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		1			44368	01/19/23 17:55	CH	EET MID

Client Sample ID: C-49 4.5 — Lab Sample ID: 880-23716-10

Date Collected: 01/12/23 13:50 **Matrix: Solid**
Date Received: 01/16/23 11:55

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	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 06:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 07:19	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		1			44368	01/19/23 18:12	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

Client Sample ID: C-6 10'

Date Collected: 01/13/23 10:15
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-11

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			4.98 g	5 mL	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 08:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 08:06	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		10			44368	01/19/23 18:18	CH	EET MID

Client Sample ID: C-7 10'

Date Collected: 01/13/23 10:17
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-12

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			4.96 g	5 mL	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 09:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 08:29	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		10			44368	01/19/23 18:36	CH	EET MID

Client Sample ID: C-9 10'

Date Collected: 01/13/23 10:19
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-13

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			5.02 g	5 mL	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 09:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 08:51	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		10			44368	01/19/23 18:41	CH	EET MID

Client Sample ID: C-10 10'

Date Collected: 01/13/23 10:21
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-14

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	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 09:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

Client Sample ID: C-10 10'

Date Collected: 01/13/23 10:21
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-14

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			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 09:14	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		10			44368	01/19/23 18:47	CH	EET MID

Client Sample ID: C-8 10'

Date Collected: 01/13/23 10:25
Date Received: 01/16/23 11:55

Lab Sample ID: 880-23716-15

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			5.03 g	5 mL	44016	01/16/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44222	01/19/23 10:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44396	01/19/23 17:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44997	01/30/23 09:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44318	01/19/23 10:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44899	01/28/23 09:36	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44238	01/18/23 11:41	KS	EET MID
Soluble	Analysis	300.0		5			44368	01/19/23 18:53	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: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

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: 880-23716-1
Project/Site: Boo Radley SDG: 21-0105-08

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: Boo Radley

Job ID: 880-23716-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23716-1	C-43 3.5'	Solid	01/11/23 14:25	01/16/23 11:55
880-23716-2	C-44 3.5'	Solid	01/11/23 14:30	01/16/23 11:55
880-23716-3	C-45 3.5'	Solid	01/11/23 14:32	01/16/23 11:55
880-23716-4	C-47 3.5'	Solid	01/11/23 14:34	01/16/23 11:55
880-23716-5	C-46 3.5'	Solid	01/11/23 14:40	01/16/23 11:55
880-23716-6	C-54 3.5'	Solid	01/11/23 14:42	01/16/23 11:55
880-23716-7	C-26 2.5	Solid	01/12/23 09:58	01/16/23 11:55
880-23716-8	C-33 2.5	Solid	01/12/23 10:00	01/16/23 11:55
880-23716-9	C-34 2.5	Solid	01/12/23 10:02	01/16/23 11:55
880-23716-10	C-49 4.5	Solid	01/12/23 13:50	01/16/23 11:55
880-23716-11	C-6 10'	Solid	01/13/23 10:15	01/16/23 11:55
880-23716-12	C-7 10'	Solid	01/13/23 10:17	01/16/23 11:55
880-23716-13	C-9 10'	Solid	01/13/23 10:19	01/16/23 11:55
880-23716-14	C-10 10'	Solid	01/13/23 10:21	01/16/23 11:55
880-23716-15	C-8 10'	Solid	01/13/23 10:25	01/16/23 11:55

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23716 No. 2789

CHAIN-OF-CUSTODY

1/30/2023

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

Data Reported to

DATE. 1/13/2023 PAGE 1 OF 1

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME BOO RADLEY

LAI PROJECT # 21-0105-09 COLLECTOR DSG

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-43 3.5'		1/11/23	1425	S	1				X		X		X	X	X												X		202
C-44 3.5'		1/11/23	1430	S	1				X		X		X	X	X												X		
C-45 3.5		1/11/23	1432	S	1				X		X		X	X	X												X		
C-47 3.5'		1/11/23	1434	S	1				X		X		X	X	X												X		
C-46 3.5'		1/11/23	1440	S	1				X		X		X	X	X												X		
C-54 3.5		1/11/23	1442	S	1				X		X		X	X	X												X		
C-26 2.5		1/12/23	0958	S	1				X		X		X	X	X												X		
C-33 2.5		1/12/23	1000	S	1				X		X		X	X	X												X		
C-34 2.5		1/12/23	1002	S	1				X		X		X	X	X												X		
C-49 4.5		1/12/23	1350	S	1				X		X		X	X	X												X		
C-6 10'		1/13/23	1015	S	1				X		X		X	X	X												X		
C-7 10'		1/13/23	1017	S	1				X		X		X	X	X												X		
C-9 10'		1/13/23	1019	S	1				X		X		X	X	X												X		
C-10* 10'		1/13/23	1021	S	1				X		X		X	X	X												X		
C-8 10'		1/13/23	1025	S	1				X		X		X	X	X												X		
TOTAL 15																													

880-23716 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	1/16 1155	[signature]
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY XENCO

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

LABORATORY USE ONLY:
RECEIVING TEMP 5.5/5.3 THERM# IR8 :36
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

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Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-23716-1
SDG Number: 21-0105-08

Login Number: 23716
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 2/2/2023 1:09:36 PM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0015-08

JOB NUMBER

890-3902-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 AM

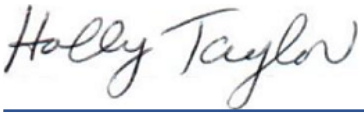
my EOL

Eurofins Carlsbad

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



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2/2/2023 1:09:36 PM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 890-3902-1
SDG: 21-0015-08

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Method Summary 16
Sample Summary 17
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Receipt Checklists 20

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-3902-1
Project/Site: Boo Radley SDG: 21-0015-08

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance 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
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: Boo Radley

Job ID: 890-3902-1
SDG: 21-0015-08

Job ID: 890-3902-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3902-1

Receipt
The samples were received on 1/19/2023 3:15 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 1.8°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: C-55 7.5' (890-3902-1), CS-30 3.5' (890-3902-2), (MB 880-44907/5-A) and (880-24174-A-11-C). 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 880-44907/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-44907/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: LCS biased low. Since only an acceptable LCS or LCSD is required per the method, the data has been qualified and reported.(LCS 880-44907/1-A)

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

Released to Imaging: 1/9/2024 10:58:26 AM

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-3902-1
Project/Site: Boo Radley SDG: 21-0015-08

Client Sample ID: C-55 7.5'
Lab Sample ID: 890-3902-1
Date Collected: 01/19/23 08:45 **Matrix: Solid**
Date Received: 01/19/23 15:15
Sample Depth: 7.5

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		01/27/23 11:13	01/28/23 16:37	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		01/27/23 11:13	01/28/23 16:37	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		01/27/23 11:13	01/28/23 16:37	1
m,p-Xylenes	<0.00398	U *-	0.00398		mg/Kg		01/27/23 11:13	01/28/23 16:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/27/23 11:13	01/28/23 16:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/27/23 11:13	01/28/23 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*167*	*S1+*	*70 - 130*	*01/27/23 11:13*	*01/28/23 16:37*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*01/27/23 11:13*	*01/28/23 16:37*	*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			01/30/23 12:32	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			02/02/23 12:15	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		02/01/23 11:51	02/02/23 04:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/01/23 11:51	02/02/23 04:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/01/23 11:51	02/02/23 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*02/01/23 11:51*	*02/02/23 04:06*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*02/01/23 11:51*	*02/02/23 04:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**329**		4.97		mg/Kg			01/26/23 08:30	1

Client Sample ID: CS-30 3.5'
Lab Sample ID: 890-3902-2
Date Collected: 01/19/23 08:47 **Matrix: Solid**
Date Received: 01/19/23 15:15
Sample Depth: 3.5

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		01/27/23 11:13	01/28/23 17:04	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		01/27/23 11:13	01/28/23 17:04	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		01/27/23 11:13	01/28/23 17:04	1
m,p-Xylenes	<0.00398	U *-	0.00398		mg/Kg		01/27/23 11:13	01/28/23 17:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/27/23 11:13	01/28/23 17:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/27/23 11:13	01/28/23 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*	*01/27/23 11:13*	*01/28/23 17:04*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-3902-1
Project/Site: Boo Radley SDG: 21-0015-08

Client Sample ID: CS-30 3.5' **Lab Sample ID: 890-3902-2**
Date Collected: 01/19/23 08:47 **Matrix: Solid**
Date Received: 01/19/23 15:15
Sample Depth: 3.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/27/23 11:13*	*01/28/23 17:04*	*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			01/30/23 12:32	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			02/02/23 12:15	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		02/01/23 11:51	02/02/23 04:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/01/23 11:51	02/02/23 04:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/01/23 11:51	02/02/23 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	*87*		*70 - 130*	*02/01/23 11:51*	*02/02/23 04:27*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*02/01/23 11:51*	*02/02/23 04:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.4**		4.98	mg/Kg			01/26/23 08:37	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3902-1
SDG: 21-0015-08

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)
890-3902-1	C-55 7.5'	167 S1+	85
890-3902-2	CS-30 3.5'	170 S1+	88
LCS 880-44907/1-A	Lab Control Sample	131 S1+	90
LCSD 880-44907/2-A	Lab Control Sample Dup	148 S1+	94
MB 880-44625/5-A	Method Blank	88	83
MB 880-44907/5-A	Method Blank	102	85

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)
890-3902-1	C-55 7.5'	101	114
890-3902-2	CS-30 3.5'	87	96
LCS 880-45194/2-A	Lab Control Sample	77	80
LCSD 880-45194/3-A	Lab Control Sample Dup	84	88
MB 880-45194/1-A	Method Blank	107	121

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3902-1
SDG: 21-0015-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44625/5-A
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44625

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 12:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 12:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 12:24	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/24/23 12:09	01/27/23 12:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 12:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/24/23 12:09	01/27/23 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*01/24/23 12:09*	*01/27/23 12:24*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*01/24/23 12:09*	*01/27/23 12:24*	*1*

Lab Sample ID: MB 880-44907/5-A
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44907

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/27/23 11:13	01/28/23 02:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/27/23 11:13	01/28/23 02:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/27/23 11:13	01/28/23 02:58	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/27/23 11:13	01/28/23 02:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/27/23 11:13	01/28/23 02:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/27/23 11:13	01/28/23 02:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/27/23 11:13*	*01/28/23 02:58*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*01/27/23 11:13*	*01/28/23 02:58*	*1*

Lab Sample ID: LCS 880-44907/1-A
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44907

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07371		mg/Kg		74	70 - 130		
Toluene			0.100	0.06631	*-	mg/Kg		66	70 - 130		
Ethylbenzene			0.100	0.06707	*-	mg/Kg		67	70 - 130		
m,p-Xylenes			0.200	0.1356	*-	mg/Kg		68	70 - 130		
o-Xylene			0.100	0.07392		mg/Kg		74	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-44907/2-A
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44907

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07957		mg/Kg		80	70 - 130	8	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3902-1
SDG: 21-0015-08

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

Lab Sample ID: LCSD 880-44907/2-A
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44907

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.06984		mg/Kg		70	70 - 130	5	35
Ethylbenzene			0.100	0.07347		mg/Kg		73	70 - 130	9	35
m,p-Xylenes			0.200	0.1481		mg/Kg		74	70 - 130	9	35
o-Xylene			0.100	0.07793		mg/Kg		78	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

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

Lab Sample ID: MB 880-45194/1-A
Matrix: Solid
Analysis Batch: 45170

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45194

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/01/23 11:51	02/01/23 19:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/01/23 11:51	02/01/23 19:48	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/01/23 11:51	02/01/23 19:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*02/01/23 11:51*	*02/01/23 19:48*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*02/01/23 11:51*	*02/01/23 19:48*	*1*

Lab Sample ID: LCS 880-45194/2-A
Matrix: Solid
Analysis Batch: 45170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45194

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			999	819.9		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)			999	979.6		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*77*		*70 - 130*
o-Terphenyl (Surr)	*80*		*70 - 130*

Lab Sample ID: LCSD 880-45194/3-A
Matrix: Solid
Analysis Batch: 45170

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45194

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	994.2		mg/Kg		100	70 - 130	19	20
Diesel Range Organics (Over C10-C28)			999	1071		mg/Kg		107	70 - 130	9	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3902-1
SDG: 21-0015-08

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

Lab Sample ID: LCSD 880-45194/3-A
Matrix: Solid
Analysis Batch: 45170

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45194

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	84		70 - 130
o-Terphenyl (Surr)	88		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44668/1-A
Matrix: Solid
Analysis Batch: 44724

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			01/26/23 05:32	1

Lab Sample ID: LCS 880-44668/2-A
Matrix: Solid
Analysis Batch: 44724

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	274.3		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-44668/3-A
Matrix: Solid
Analysis Batch: 44724

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	273.2		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3902-1
SDG: 21-0015-08

GC VOA

Prep Batch: 44625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44625/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 44889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3902-1	C-55 7.5'	Total/NA	Solid	8021B	44907
890-3902-2	CS-30 3.5'	Total/NA	Solid	8021B	44907
MB 880-44625/5-A	Method Blank	Total/NA	Solid	8021B	44625
MB 880-44907/5-A	Method Blank	Total/NA	Solid	8021B	44907
LCS 880-44907/1-A	Lab Control Sample	Total/NA	Solid	8021B	44907
LCSD 880-44907/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44907

Prep Batch: 44907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3902-1	C-55 7.5'	Total/NA	Solid	5035	
890-3902-2	CS-30 3.5'	Total/NA	Solid	5035	
MB 880-44907/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44907/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44907/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 45049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3902-1	C-55 7.5'	Total/NA	Solid	Total BTEX	
890-3902-2	CS-30 3.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 45170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3902-1	C-55 7.5'	Total/NA	Solid	8015B NM	45194
890-3902-2	CS-30 3.5'	Total/NA	Solid	8015B NM	45194
MB 880-45194/1-A	Method Blank	Total/NA	Solid	8015B NM	45194
LCS 880-45194/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45194
LCSD 880-45194/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45194

Prep Batch: 45194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3902-1	C-55 7.5'	Total/NA	Solid	8015NM Prep	
890-3902-2	CS-30 3.5'	Total/NA	Solid	8015NM Prep	
MB 880-45194/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45194/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45194/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3902-1	C-55 7.5'	Total/NA	Solid	8015 NM	
890-3902-2	CS-30 3.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3902-1	C-55 7.5'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 890-3902-1
Project/Site: Boo Radley SDG: 21-0015-08

HPLC/IC (Continued)

Leach Batch: 44668 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3902-2	CS-30 3.5'	Soluble	Solid	DI Leach	
MB 880-44668/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44668/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44668/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 44724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3902-1	C-55 7.5'	Soluble	Solid	300.0	44668
890-3902-2	CS-30 3.5'	Soluble	Solid	300.0	44668
MB 880-44668/1-A	Method Blank	Soluble	Solid	300.0	44668
LCS 880-44668/2-A	Lab Control Sample	Soluble	Solid	300.0	44668
LCSD 880-44668/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44668

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3902-1
SDG: 21-0015-08

Client Sample ID: C-55 7.5'

Date Collected: 01/19/23 08:45
Date Received: 01/19/23 15:15

Lab Sample ID: 890-3902-1

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	44907	01/27/23 11:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/28/23 16:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45049	01/30/23 12:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			45254	02/02/23 12:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45194	02/01/23 11:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45170	02/02/23 04:06	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44668	01/24/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			44724	01/26/23 08:30	CH	EET MID

Client Sample ID: CS-30 3.5'

Date Collected: 01/19/23 08:47
Date Received: 01/19/23 15:15

Lab Sample ID: 890-3902-2

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			5.03 g	5 mL	44907	01/27/23 11:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/28/23 17:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45049	01/30/23 12:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			45254	02/02/23 12:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45194	02/01/23 11:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45170	02/02/23 04:27	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44668	01/24/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			44724	01/26/23 08:37	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.
Project/Site: Boo Radley

Job ID: 890-3902-1
SDG: 21-0015-08

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: 890-3902-1
Project/Site: Boo Radley SDG: 21-0015-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 890-3902-1
SDG: 21-0015-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3902-1	C-55 7.5'	Solid	01/19/23 08:45	01/19/23 15:15	7.5
890-3902-2	CS-30 3.5'	Solid	01/19/23 08:47	01/19/23 15:15	3.5

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No. 2792

CHAIN-OF-CUSTODY

2/2/2023

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

DATE: 1/19/23 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Boc RADLEY

LAI PROJECT #: 21-0105-08 COLLECTOR: DSG

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 - PEST ☐	HERB ☐	TCLP VOC ☐	TOTAL METALS (RCRA) ☐	Semi-VOC ☐	LEAD - TOTAL ☐	OTHER LIST ☐	RCI ☐	D.W. 200.8 ☐	TOX ☐	TDS ☐	TSS ☐	pH ☐	FLASHPOINT ☐	% MOISTURE ☐	EXPLOSIVES ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	CHLORIDE ☑	PECHLORATE ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-55 7.5		1/19/23	0845	S	1				X		X			X	X	X																									X					
C-30 3.5		1/19/23	0847	S	1				X		X			X	X	X																									X					

890-3902 Chain of Custody

TOTAL 2

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Daniel Rojano	1/19/23 1515	Amanda Stutz
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: 2.0/1.8 -0.1 THERM#: IAM-007
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Taylor, Holly	Carrier Tracking No(s)	COC No: 890-1107 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Holly Taylor@et.eurofinsus com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-3902-1
Address: 1211 W Florida Ave	Due Date Requested: 1/25/2023			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: boo radley	Project #: 89000025			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M - Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S - H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX LL	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
C-55 7 5' (890-3902-1)	1/19/23	08 45 Mountain		Solid			X	X	X	X	X	1	
CS-30 3 5' (890-3902-2)	1/19/23	08 47 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment.

	Date/Time	Company		Date/Time	Company
Relinquished by:			Received by:		
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

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Received by OCD: 7/19/2023 8:51:08 AM
Released to Imaging: 1/9/2024 10:58:26 AM
2/2/2023
Page 19 of 21

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-3902-1
SDG Number: 21-0015-08

Login Number: 3902
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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?	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.	N/A	Refer to Job Narrative for details.
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: 890-3902-1
SDG Number: 21-0015-08

Login Number: 3902
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 01/23/23 07:42 AM

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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 2/3/2023 11:09:06 AM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

890-3881-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 AM

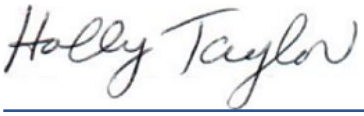
my EOL

Eurofins Carlsbad

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
2/3/2023 11:09:06 AM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 890-3881-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-3881-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*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: 890-3881-1
Project/Site: Boo Radley SDG: 21-0105-08

Job ID: 890-3881-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3881-1

Receipt
The samples were received on 1/18/2023 3:04 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 4.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-39 3.5' (890-3881-1), C-41 3.5' (890-3881-2), C-27 3.5' (890-3881-3), C-32 3.5' (890-3881-4), C-35 3.5' (890-3881-5), C-28 3.5' (890-3881-6), C-48 6.5' (890-3881-7), C-53 6.5' (890-3881-8) and C-64 3.5' (890-3881-9).

The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): C-39 3.5' (890-3881-1), C-41 3.5' (890-3881-2), C-27 3.5' (890-3881-3), C-32 3.5' (890-3881-4), C-35 3.5' (890-3881-5), C-28 3.5' (890-3881-6), C-48 6.5' (890-3881-7), C-53 6.5' (890-3881-8) and C-64 3.5' (890-3881-9)
890-3881
Sample received not on COC, Sample C-31 3.5' 1/17/23 09:32

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: C-39 3.5' (890-3881-1), C-41 3.5' (890-3881-2), C-27 3.5' (890-3881-3), C-32 3.5' (890-3881-4), C-35 3.5' (890-3881-5), C-28 3.5' (890-3881-6), C-48 6.5' (890-3881-7), C-53 6.5' (890-3881-8) and C-64 3.5' (890-3881-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-45061 and analytical batch 880-45103 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-45089 and analytical batch 880-45165 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 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-45145 and analytical batch 880-45222 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

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 880-44580 and analytical batch 880-44680 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: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

Client Sample ID: C-39 3.5'

Date Collected: 01/17/23 09:10
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-1

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		01/24/23 12:09	01/27/23 14:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:09	01/27/23 14:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:09	01/27/23 14:11	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/24/23 12:09	01/27/23 14:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:09	01/27/23 14:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 12:09	01/27/23 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*01/24/23 12:09*	*01/27/23 14:11*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/24/23 12:09*	*01/27/23 14:11*	*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			01/27/23 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			02/02/23 13:26	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		01/30/23 16:08	02/01/23 17:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/23 16:08	02/01/23 17:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/23 16:08	02/01/23 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*72*		*70 - 130*	*01/30/23 16:08*	*02/01/23 17:36*	*1*
o-Terphenyl (Surr)	*76*		*70 - 130*	*01/30/23 16:08*	*02/01/23 17:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**357**		5.05		mg/Kg			01/24/23 21:09	1

Client Sample ID: C-41 3.5'

Date Collected: 01/17/23 09:12
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-2

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		01/24/23 12:09	01/27/23 14:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/24/23 12:09	01/27/23 14:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/24/23 12:09	01/27/23 14:37	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		01/24/23 12:09	01/27/23 14:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/24/23 12:09	01/27/23 14:37	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/24/23 12:09	01/27/23 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*01/24/23 12:09*	*01/27/23 14:37*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/24/23 12:09*	*01/27/23 14:37*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

Client Sample ID: C-41 3.5'

Date Collected: 01/17/23 09:12
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/27/23 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			02/02/23 13:26	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		01/30/23 16:08	02/01/23 17:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 17:57	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*01/30/23 16:08*	*02/01/23 17:57*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*01/30/23 16:08*	*02/01/23 17:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.7**		5.04		mg/Kg			01/24/23 21:14	1

Client Sample ID: C-27 3.5'

Date Collected: 01/17/23 09:18
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-3

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		01/24/23 12:09	01/27/23 15:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 15:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 15:04	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/24/23 12:09	01/27/23 15:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 15:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/24/23 12:09	01/27/23 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*01/24/23 12:09*	*01/27/23 15:04*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/24/23 12:09*	*01/27/23 15:04*	*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			01/27/23 17:05	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			02/02/23 13:26	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		01/30/23 16:08	02/01/23 18:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 18:17	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

Client Sample ID: C-27 3.5'

Date Collected: 01/17/23 09:18
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-3

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)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*70*		*70 - 130*	*01/30/23 16:08*	*02/01/23 18:17*	*1*
o-Terphenyl (Surr)	*78*		*70 - 130*	*01/30/23 16:08*	*02/01/23 18:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**762**		5.00		mg/Kg			01/24/23 21:29	1

Client Sample ID: C-32 3.5'

Date Collected: 01/17/23 09:20
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-4

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		01/24/23 12:09	01/27/23 15:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:09	01/27/23 15:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:09	01/27/23 15:30	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/24/23 12:09	01/27/23 15:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:09	01/27/23 15:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 12:09	01/27/23 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*01/24/23 12:09*	*01/27/23 15:30*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/24/23 12:09*	*01/27/23 15:30*	*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			01/27/23 17:05	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			02/02/23 13:26	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		01/30/23 16:08	02/01/23 18:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 18:38	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*70*		*70 - 130*	*01/30/23 16:08*	*02/01/23 18:38*	*1*
o-Terphenyl (Surr)	*77*		*70 - 130*	*01/30/23 16:08*	*02/01/23 18:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**423**		5.00		mg/Kg			01/24/23 21:33	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

Client Sample ID: C-35 3.5'

Date Collected: 01/17/23 09:22
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-5

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		01/24/23 12:09	01/27/23 16:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/24/23 12:09	01/27/23 16:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/24/23 12:09	01/27/23 16:34	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		01/24/23 12:09	01/27/23 16:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/24/23 12:09	01/27/23 16:34	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/24/23 12:09	01/27/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*01/24/23 12:09*	*01/27/23 16:34*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*01/24/23 12:09*	*01/27/23 16:34*	*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			01/30/23 12:32	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			02/02/23 13:26	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		01/30/23 16:08	02/01/23 18:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 18:58	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*71*		*70 - 130*	*01/30/23 16:08*	*02/01/23 18:58*	*1*
o-Terphenyl (Surr)	*78*		*70 - 130*	*01/30/23 16:08*	*02/01/23 18:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**625**		5.03		mg/Kg			01/24/23 21:38	1

Client Sample ID: C-28 3.5'

Date Collected: 01/17/23 09:30
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-6

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		01/24/23 12:09	01/27/23 17:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:09	01/27/23 17:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:09	01/27/23 17:00	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/24/23 12:09	01/27/23 17:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/23 12:09	01/27/23 17:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/23 12:09	01/27/23 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*01/24/23 12:09*	*01/27/23 17:00*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/24/23 12:09*	*01/27/23 17:00*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

Client Sample ID: C-28 3.5'

Date Collected: 01/17/23 09:30
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-6

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			01/30/23 12:32	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			01/31/23 15:01	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		01/30/23 14:49	01/31/23 14:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 14:49	01/31/23 14:22	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 14:49	01/31/23 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*01/30/23 14:49*	*01/31/23 14:22*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*01/30/23 14:49*	*01/31/23 14:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		5.02		mg/Kg			01/24/23 21:43	1

Client Sample ID: C-48 6.5'

Date Collected: 01/18/23 09:05
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-7

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		01/24/23 12:09	01/27/23 17:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 17:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 17:27	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/24/23 12:09	01/27/23 17:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 17:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/24/23 12:09	01/27/23 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*01/24/23 12:09*	*01/27/23 17:27*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/24/23 12:09*	*01/27/23 17:27*	*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			01/30/23 12:32	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			02/03/23 11:49	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 *1	49.9		mg/Kg		01/31/23 14:03	02/02/23 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		01/31/23 14:03	02/02/23 18:03	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-3881-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-48 6.5' Lab Sample ID: 890-3881-7

Date Collected: 01/18/23 09:05 **Matrix: Solid**
Date Received: 01/18/23 15:04

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		01/31/23 14:03	02/02/23 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*01/31/23 14:03*	*02/02/23 18:03*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*01/31/23 14:03*	*02/02/23 18:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**192**		4.98		mg/Kg			01/24/23 21:48	1

Client Sample ID: C-53 6.5' Lab Sample ID: 890-3881-8

Date Collected: 01/18/23 09:07 **Matrix: Solid**
Date Received: 01/18/23 15:04

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		01/24/23 12:09	01/27/23 19:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/24/23 12:09	01/27/23 19:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/24/23 12:09	01/27/23 19:14	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/24/23 12:09	01/27/23 19:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/24/23 12:09	01/27/23 19:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/24/23 12:09	01/27/23 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*01/24/23 12:09*	*01/27/23 19:14*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*01/24/23 12:09*	*01/27/23 19:14*	*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			01/30/23 12:32	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			02/03/23 11:49	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 *1	50.0		mg/Kg		01/31/23 14:03	02/02/23 18:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		01/31/23 14:03	02/02/23 18:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/23 14:03	02/02/23 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*78*		*70 - 130*	*01/31/23 14:03*	*02/02/23 18:23*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*01/31/23 14:03*	*02/02/23 18:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77.1**	**F1**	4.96		mg/Kg			01/24/23 21:53	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

Client Sample ID: C-64 3.5'

Date Collected: 01/18/23 10:18
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-9

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		01/24/23 12:09	01/27/23 19:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/24/23 12:09	01/27/23 19:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/24/23 12:09	01/27/23 19:42	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/24/23 12:09	01/27/23 19:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/24/23 12:09	01/27/23 19:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/24/23 12:09	01/27/23 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*01/24/23 12:09*	*01/27/23 19:42*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/24/23 12:09*	*01/27/23 19:42*	*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			01/30/23 12:32	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			02/03/23 11:49	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 *1	49.9		mg/Kg		01/31/23 14:03	02/02/23 18:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		01/31/23 14:03	02/02/23 18:43	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/23 14:03	02/02/23 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*79*		*70 - 130*	*01/31/23 14:03*	*02/02/23 18:43*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*01/31/23 14:03*	*02/02/23 18:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**267**		5.04		mg/Kg			01/24/23 22:08	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

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)
890-3881-1	C-39 3.5'	143 S1+	91
890-3881-2	C-41 3.5'	132 S1+	90
890-3881-3	C-27 3.5'	138 S1+	93
890-3881-4	C-32 3.5'	139 S1+	91
890-3881-5	C-35 3.5'	158 S1+	85
890-3881-6	C-28 3.5'	134 S1+	88
890-3881-7	C-48 6.5'	139 S1+	95
890-3881-8	C-53 6.5'	131 S1+	82
890-3881-9	C-64 3.5'	145 S1+	90
LCS 880-44625/1-A	Lab Control Sample	131 S1+	99
LCSD 880-44625/2-A	Lab Control Sample Dup	124	102
MB 880-44625/5-A	Method Blank	88	83

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-3881-1	C-39 3.5'	72	76
890-3881-2	C-41 3.5'	84	92
890-3881-3	C-27 3.5'	70	78
890-3881-4	C-32 3.5'	70	77
890-3881-5	C-35 3.5'	71	78
890-3881-6	C-28 3.5'	108	116
890-3881-7	C-48 6.5'	90	94
890-3881-8	C-53 6.5'	78	80
890-3881-9	C-64 3.5'	79	79
LCS 880-45061/2-A	Lab Control Sample	89	96
LCS 880-45089/2-A	Lab Control Sample	84	89
LCS 880-45145/2-A	Lab Control Sample	80	75
LCSD 880-45061/3-A	Lab Control Sample Dup	74	82
LCSD 880-45089/3-A	Lab Control Sample Dup	75	73
LCSD 880-45145/3-A	Lab Control Sample Dup	92	91
MB 880-45061/1-A	Method Blank	156 S1+	170 S1+
MB 880-45089/1-A	Method Blank	94	111
MB 880-45145/1-A	Method Blank	87	91

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44625/5-A
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44625

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 12:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 12:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 12:24	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/24/23 12:09	01/27/23 12:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/23 12:09	01/27/23 12:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/24/23 12:09	01/27/23 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*01/24/23 12:09*	*01/27/23 12:24*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*01/24/23 12:09*	*01/27/23 12:24*	*1*

Lab Sample ID: LCS 880-44625/1-A
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44625

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1090		mg/Kg		109	70 - 130		
Toluene			0.100	0.1121		mg/Kg		112	70 - 130		
Ethylbenzene			0.100	0.1157		mg/Kg		116	70 - 130		
m,p-Xylenes			0.200	0.2386		mg/Kg		119	70 - 130		
o-Xylene			0.100	0.1195		mg/Kg		119	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-44625/2-A
Matrix: Solid
Analysis Batch: 44889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44625

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	4	35
Toluene			0.100	0.1013		mg/Kg		101	70 - 130	10	35
Ethylbenzene			0.100	0.1050		mg/Kg		105	70 - 130	10	35
m,p-Xylenes			0.200	0.2128		mg/Kg		106	70 - 130	11	35
o-Xylene			0.100	0.1073		mg/Kg		107	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-45061/1-A
Matrix: Solid
Analysis Batch: 45103

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45061

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/30/23 14:49	01/31/23 08:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 14:49	01/31/23 08:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 14:49	01/31/23 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*156*	*S1+*	*70 - 130*	*01/30/23 14:49*	*01/31/23 08:27*	*1*
o-Terphenyl (Surr)	*170*	*S1+*	*70 - 130*	*01/30/23 14:49*	*01/31/23 08:27*	*1*

Lab Sample ID: LCS 880-45061/2-A
Matrix: Solid
Analysis Batch: 45103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45061

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			999	934.9		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			999	969.4		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*89*		*70 - 130*
o-Terphenyl (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-45061/3-A
Matrix: Solid
Analysis Batch: 45103

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45061

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	874.6		mg/Kg		88	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			999	860.9		mg/Kg		86	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*74*		*70 - 130*
o-Terphenyl (Surr)	*82*		*70 - 130*

Lab Sample ID: MB 880-45089/1-A
Matrix: Solid
Analysis Batch: 45165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45089

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 08:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 08:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/23 16:08	02/01/23 08:54	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-45089/1-A
Matrix: Solid
Analysis Batch: 45165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45089

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	01/30/23 16:08	02/01/23 08:54	1
o-Terphenyl (Surr)	111		70 - 130	01/30/23 16:08	02/01/23 08:54	1

Lab Sample ID: LCS 880-45089/2-A
Matrix: Solid
Analysis Batch: 45165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45089

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			999	790.8		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)			999	809.2		mg/Kg		81	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	84		70 - 130
o-Terphenyl (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-45089/3-A
Matrix: Solid
Analysis Batch: 45165

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45089

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	654.9	*-	mg/Kg		66	70 - 130	19	20
Diesel Range Organics (Over C10-C28)			999	738.8		mg/Kg		74	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	75		70 - 130
o-Terphenyl (Surr)	73		70 - 130

Lab Sample ID: MB 880-45145/1-A
Matrix: Solid
Analysis Batch: 45222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45145

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/31/23 14:03	02/02/23 09:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/31/23 14:03	02/02/23 09:48	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/23 14:03	02/02/23 09:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130	01/31/23 14:03	02/02/23 09:48	1
o-Terphenyl (Surr)	91		70 - 130	01/31/23 14:03	02/02/23 09:48	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

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

Lab Sample ID: LCS 880-45145/2-A
Matrix: Solid
Analysis Batch: 45222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45145

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			999	716.6		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)			999	910.1		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*80*		*70 - 130*
o-Terphenyl (Surr)	*75*		*70 - 130*

Lab Sample ID: LCSD 880-45145/3-A
Matrix: Solid
Analysis Batch: 45222

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	1055	*1	mg/Kg		106	70 - 130	38	20
Diesel Range Organics (Over C10-C28)			999	1157	*1	mg/Kg		116	70 - 130	24	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*92*		*70 - 130*
o-Terphenyl (Surr)	*91*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44580/1-A
Matrix: Solid
Analysis Batch: 44680

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			01/24/23 20:30	1

Lab Sample ID: LCS 880-44580/2-A
Matrix: Solid
Analysis Batch: 44680

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	267.8		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-44580/3-A
Matrix: Solid
Analysis Batch: 44680

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	268.0		mg/Kg		107	90 - 110	0	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3881-8 MS
Matrix: Solid
Analysis Batch: 44680

Client Sample ID: C-53 6.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	77.1	F1	248	361.6	F1	mg/Kg		115	90 - 110		

Lab Sample ID: 890-3881-8 MSD
Matrix: Solid
Analysis Batch: 44680

Client Sample ID: C-53 6.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	77.1	F1	248	362.4	F1	mg/Kg		115	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

GC VOA

Prep Batch: 44625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3881-1	C-39 3.5'	Total/NA	Solid	5035	
890-3881-2	C-41 3.5'	Total/NA	Solid	5035	
890-3881-3	C-27 3.5'	Total/NA	Solid	5035	
890-3881-4	C-32 3.5'	Total/NA	Solid	5035	
890-3881-5	C-35 3.5'	Total/NA	Solid	5035	
890-3881-6	C-28 3.5'	Total/NA	Solid	5035	
890-3881-7	C-48 6.5'	Total/NA	Solid	5035	
890-3881-8	C-53 6.5'	Total/NA	Solid	5035	
890-3881-9	C-64 3.5'	Total/NA	Solid	5035	
MB 880-44625/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44625/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44625/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 44889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3881-1	C-39 3.5'	Total/NA	Solid	8021B	44625
890-3881-2	C-41 3.5'	Total/NA	Solid	8021B	44625
890-3881-3	C-27 3.5'	Total/NA	Solid	8021B	44625
890-3881-4	C-32 3.5'	Total/NA	Solid	8021B	44625
890-3881-5	C-35 3.5'	Total/NA	Solid	8021B	44625
890-3881-6	C-28 3.5'	Total/NA	Solid	8021B	44625
890-3881-7	C-48 6.5'	Total/NA	Solid	8021B	44625
890-3881-8	C-53 6.5'	Total/NA	Solid	8021B	44625
890-3881-9	C-64 3.5'	Total/NA	Solid	8021B	44625
MB 880-44625/5-A	Method Blank	Total/NA	Solid	8021B	44625
LCS 880-44625/1-A	Lab Control Sample	Total/NA	Solid	8021B	44625
LCSD 880-44625/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44625

Analysis Batch: 44936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3881-1	C-39 3.5'	Total/NA	Solid	Total BTEX	
890-3881-2	C-41 3.5'	Total/NA	Solid	Total BTEX	
890-3881-3	C-27 3.5'	Total/NA	Solid	Total BTEX	
890-3881-4	C-32 3.5'	Total/NA	Solid	Total BTEX	
890-3881-5	C-35 3.5'	Total/NA	Solid	Total BTEX	
890-3881-6	C-28 3.5'	Total/NA	Solid	Total BTEX	
890-3881-7	C-48 6.5'	Total/NA	Solid	Total BTEX	
890-3881-8	C-53 6.5'	Total/NA	Solid	Total BTEX	
890-3881-9	C-64 3.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3881-6	C-28 3.5'	Total/NA	Solid	8015NM Prep	
MB 880-45061/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45061/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

GC Semi VOA

Prep Batch: 45089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3881-1	C-39 3.5'	Total/NA	Solid	8015NM Prep	
890-3881-2	C-41 3.5'	Total/NA	Solid	8015NM Prep	
890-3881-3	C-27 3.5'	Total/NA	Solid	8015NM Prep	
890-3881-4	C-32 3.5'	Total/NA	Solid	8015NM Prep	
890-3881-5	C-35 3.5'	Total/NA	Solid	8015NM Prep	
MB 880-45089/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45089/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45089/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3881-6	C-28 3.5'	Total/NA	Solid	8015B NM	45061
MB 880-45061/1-A	Method Blank	Total/NA	Solid	8015B NM	45061
LCS 880-45061/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45061
LCSD 880-45061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45061

Prep Batch: 45145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3881-7	C-48 6.5'	Total/NA	Solid	8015NM Prep	
890-3881-8	C-53 6.5'	Total/NA	Solid	8015NM Prep	
890-3881-9	C-64 3.5'	Total/NA	Solid	8015NM Prep	
MB 880-45145/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45145/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45145/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3881-1	C-39 3.5'	Total/NA	Solid	8015 NM	
890-3881-2	C-41 3.5'	Total/NA	Solid	8015 NM	
890-3881-3	C-27 3.5'	Total/NA	Solid	8015 NM	
890-3881-4	C-32 3.5'	Total/NA	Solid	8015 NM	
890-3881-5	C-35 3.5'	Total/NA	Solid	8015 NM	
890-3881-6	C-28 3.5'	Total/NA	Solid	8015 NM	
890-3881-7	C-48 6.5'	Total/NA	Solid	8015 NM	
890-3881-8	C-53 6.5'	Total/NA	Solid	8015 NM	
890-3881-9	C-64 3.5'	Total/NA	Solid	8015 NM	

Analysis Batch: 45165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3881-1	C-39 3.5'	Total/NA	Solid	8015B NM	45089
890-3881-2	C-41 3.5'	Total/NA	Solid	8015B NM	45089
890-3881-3	C-27 3.5'	Total/NA	Solid	8015B NM	45089
890-3881-4	C-32 3.5'	Total/NA	Solid	8015B NM	45089
890-3881-5	C-35 3.5'	Total/NA	Solid	8015B NM	45089
MB 880-45089/1-A	Method Blank	Total/NA	Solid	8015B NM	45089
LCS 880-45089/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45089
LCSD 880-45089/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45089

Analysis Batch: 45222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3881-7	C-48 6.5'	Total/NA	Solid	8015B NM	45145

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

GC Semi VOA (Continued)

Analysis Batch: 45222 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3881-8	C-53 6.5'	Total/NA	Solid	8015B NM	45145
890-3881-9	C-64 3.5'	Total/NA	Solid	8015B NM	45145
MB 880-45145/1-A	Method Blank	Total/NA	Solid	8015B NM	45145
LCS 880-45145/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45145
LCSD 880-45145/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45145

HPLC/IC

Leach Batch: 44580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3881-1	C-39 3.5'	Soluble	Solid	DI Leach	
890-3881-2	C-41 3.5'	Soluble	Solid	DI Leach	
890-3881-3	C-27 3.5'	Soluble	Solid	DI Leach	
890-3881-4	C-32 3.5'	Soluble	Solid	DI Leach	
890-3881-5	C-35 3.5'	Soluble	Solid	DI Leach	
890-3881-6	C-28 3.5'	Soluble	Solid	DI Leach	
890-3881-7	C-48 6.5'	Soluble	Solid	DI Leach	
890-3881-8	C-53 6.5'	Soluble	Solid	DI Leach	
890-3881-9	C-64 3.5'	Soluble	Solid	DI Leach	
MB 880-44580/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44580/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44580/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3881-8 MS	C-53 6.5'	Soluble	Solid	DI Leach	
890-3881-8 MSD	C-53 6.5'	Soluble	Solid	DI Leach	

Analysis Batch: 44680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3881-1	C-39 3.5'	Soluble	Solid	300.0	44580
890-3881-2	C-41 3.5'	Soluble	Solid	300.0	44580
890-3881-3	C-27 3.5'	Soluble	Solid	300.0	44580
890-3881-4	C-32 3.5'	Soluble	Solid	300.0	44580
890-3881-5	C-35 3.5'	Soluble	Solid	300.0	44580
890-3881-6	C-28 3.5'	Soluble	Solid	300.0	44580
890-3881-7	C-48 6.5'	Soluble	Solid	300.0	44580
890-3881-8	C-53 6.5'	Soluble	Solid	300.0	44580
890-3881-9	C-64 3.5'	Soluble	Solid	300.0	44580
MB 880-44580/1-A	Method Blank	Soluble	Solid	300.0	44580
LCS 880-44580/2-A	Lab Control Sample	Soluble	Solid	300.0	44580
LCSD 880-44580/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44580
890-3881-8 MS	C-53 6.5'	Soluble	Solid	300.0	44580
890-3881-8 MSD	C-53 6.5'	Soluble	Solid	300.0	44580

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

Client Sample ID: C-39 3.5'

Lab Sample ID: 890-3881-1
Matrix: Solid
Date Collected: 01/17/23 09:10
Date Received: 01/18/23 15:04

Prep 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	44625	01/24/23 12:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/27/23 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44936	01/27/23 15:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45154	02/02/23 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45089	01/30/23 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45165	02/01/23 17:36	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44580	01/23/23 15:15	KS	EET MID
Soluble	Analysis	300.0		1			44680	01/24/23 21:09	CH	EET MID

Client Sample ID: C-41 3.5'

Lab Sample ID: 890-3881-2
Matrix: Solid
Date Collected: 01/17/23 09:12
Date Received: 01/18/23 15:04

Prep 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	44625	01/24/23 12:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/27/23 14:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44936	01/27/23 15:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45154	02/02/23 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45089	01/30/23 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45165	02/01/23 17:57	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44580	01/23/23 15:15	KS	EET MID
Soluble	Analysis	300.0		1			44680	01/24/23 21:14	CH	EET MID

Client Sample ID: C-27 3.5'

Lab Sample ID: 890-3881-3
Matrix: Solid
Date Collected: 01/17/23 09:18
Date Received: 01/18/23 15:04

Prep 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	44625	01/24/23 12:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/27/23 15:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44936	01/27/23 17:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45154	02/02/23 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45089	01/30/23 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45165	02/01/23 18:17	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44580	01/23/23 15:15	KS	EET MID
Soluble	Analysis	300.0		1			44680	01/24/23 21:29	CH	EET MID

Client Sample ID: C-32 3.5'

Lab Sample ID: 890-3881-4
Matrix: Solid
Date Collected: 01/17/23 09:20
Date Received: 01/18/23 15:04

Prep 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	44625	01/24/23 12:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/27/23 15:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44936	01/27/23 17:05	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

Client Sample ID: C-32 3.5'

Lab Sample ID: 890-3881-4
Matrix: Solid
Date Collected: 01/17/23 09:20
Date Received: 01/18/23 15:04

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			45154	02/02/23 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45089	01/30/23 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45165	02/01/23 18:38	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44580	01/23/23 15:15	KS	EET MID
Soluble	Analysis	300.0		1			44680	01/24/23 21:33	CH	EET MID

Client Sample ID: C-35 3.5'

Lab Sample ID: 890-3881-5
Matrix: Solid
Date Collected: 01/17/23 09:22
Date Received: 01/18/23 15:04

Prep 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	44625	01/24/23 12:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/27/23 16:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44936	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45154	02/02/23 13:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45089	01/30/23 16:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45165	02/01/23 18:58	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44580	01/23/23 15:15	KS	EET MID
Soluble	Analysis	300.0		1			44680	01/24/23 21:38	CH	EET MID

Client Sample ID: C-28 3.5'

Lab Sample ID: 890-3881-6
Matrix: Solid
Date Collected: 01/17/23 09:30
Date Received: 01/18/23 15:04

Prep 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	44625	01/24/23 12:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/27/23 17:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44936	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45154	01/31/23 15:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45061	01/30/23 14:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45103	01/31/23 14:22	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44580	01/23/23 15:15	KS	EET MID
Soluble	Analysis	300.0		1			44680	01/24/23 21:43	CH	EET MID

Client Sample ID: C-48 6.5'

Lab Sample ID: 890-3881-7
Matrix: Solid
Date Collected: 01/18/23 09:05
Date Received: 01/18/23 15:04

Prep 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	44625	01/24/23 12:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/27/23 17:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44936	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45154	02/03/23 11:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45145	01/31/23 14:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45222	02/02/23 18:03	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

Client Sample ID: C-48 6.5'

Date Collected: 01/18/23 09:05
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-7

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	44580	01/23/23 15:15	KS	EET MID
Soluble	Analysis	300.0		1			44680	01/24/23 21:48	CH	EET MID

Client Sample ID: C-53 6.5'

Date Collected: 01/18/23 09:07
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-8

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			4.97 g	5 mL	44625	01/24/23 12:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/27/23 19:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44936	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45154	02/03/23 11:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45145	01/31/23 14:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45222	02/02/23 18:23	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	44580	01/23/23 15:15	KS	EET MID
Soluble	Analysis	300.0		1			44680	01/24/23 21:53	CH	EET MID

Client Sample ID: C-64 3.5'

Date Collected: 01/18/23 10:18
Date Received: 01/18/23 15:04

Lab Sample ID: 890-3881-9

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			4.95 g	5 mL	44625	01/24/23 12:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44889	01/27/23 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44936	01/30/23 12:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45154	02/03/23 11:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45145	01/31/23 14:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45222	02/02/23 18:43	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44580	01/23/23 15:15	KS	EET MID
Soluble	Analysis	300.0		1			44680	01/24/23 22:08	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.
Project/Site: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

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: 890-3881-1
Project/Site: Boo Radley SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 890-3881-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3881-1	C-39 3.5'	Solid	01/17/23 09:10	01/18/23 15:04
890-3881-2	C-41 3.5'	Solid	01/17/23 09:12	01/18/23 15:04
890-3881-3	C-27 3.5'	Solid	01/17/23 09:18	01/18/23 15:04
890-3881-4	C-32 3.5'	Solid	01/17/23 09:20	01/18/23 15:04
890-3881-5	C-35 3.5'	Solid	01/17/23 09:22	01/18/23 15:04
890-3881-6	C-28 3.5'	Solid	01/17/23 09:30	01/18/23 15:04
890-3881-7	C-48 6.5'	Solid	01/18/23 09:05	01/18/23 15:04
890-3881-8	C-53 6.5'	Solid	01/18/23 09:07	01/18/23 15:04
890-3881-9	C-64 3.5'	Solid	01/18/23 10:18	01/18/23 15:04

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890-3881 Chain of Custody

No. 2791

CHAIN-OF-CUSTODY

2/3/2023

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

Data Reported to:

DATE: 1/18/2023 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Boo Radley

LAI PROJECT #: 21-0105-08 COLLECTOR: DSG

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	UNPRESERVED	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 ✓	CHLORIDE ✓	ANIONS ✓	ALKALINITY ✓	FIELD NOTES
C-39 3.5'		1/17/23	0910	S	1					X		X		X	X	X																																
C-41 3.5'		1/17/23	0912	S	1					X		X		X	X	X																																
C-27 3.5'		1/17/23	0918	S	1					X		X		X	X	X																																
C-32 3.5'		1/17/23	0920	S	1					X		X		X	X	X																																
C-35 3.5'		1/17/23	0922	S	1					X		X		X	X	X																																
C-28 3.5'		1/17/23	0930	S	1					X		X		X	X	X																																
C-48 6.5'		1/18/23	0905	S	1					X		X		X	X	X																																
C-53 6.5'		1/18/23	0907	S	1					X		X		X	X	X																																
C-64 3.5'		1/18/23	1018	S	1					X		X		X	X	X																																

TOTAL 9

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Daniel Rodriguez	1/18/23 1504	Amanda Stuff
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: 4/2/4.D -0.2 THERM#: TNM-007
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-3881-1
SDG Number: 21-0105-08

Login Number: 3881
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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?	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.	N/A	Refer to Job Narrative for details.
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: 890-3881-1
SDG Number: 21-0105-08

Login Number: 3881
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/20/23 10:42 AM

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 2/5/2023 9:28:01 AM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

880-24113-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 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
2/5/2023 9:28:01 AM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 880-24113-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-24113-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
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: Boo Radley

Job ID: 880-24113-1
SDG: 21-0105-08

Job ID: 880-24113-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-24113-1

Receipt
The samples were received on 1/25/2023 3:37 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 1.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-25a (880-24113-1) and SW-24b (880-24113-2).

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

Released to Imaging: 1/9/2024 10:58:26 AM

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-24113-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: SW-25a
Lab Sample ID: 880-24113-1
Date Collected: 01/23/23 12:32 **Matrix: Solid**
Date Received: 01/25/23 15:37

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		02/03/23 09:50	02/03/23 19:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/03/23 09:50	02/03/23 19:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/03/23 09:50	02/03/23 19:36	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/03/23 09:50	02/03/23 19:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/03/23 09:50	02/03/23 19:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/03/23 09:50	02/03/23 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*02/03/23 09:50*	*02/03/23 19:36*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*02/03/23 09:50*	*02/03/23 19:36*	*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			02/04/23 10:12	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			02/05/23 09:31	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		02/03/23 09:29	02/05/23 00:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/03/23 09:29	02/05/23 00:36	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/03/23 09:29	02/05/23 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*02/03/23 09:29*	*02/05/23 00:36*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*02/03/23 09:29*	*02/05/23 00:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**428**		5.02		mg/Kg			01/31/23 12:27	1

Client Sample ID: SW-24b
Lab Sample ID: 880-24113-2
Date Collected: 01/23/23 12:34 **Matrix: Solid**
Date Received: 01/25/23 15:37

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		02/03/23 09:50	02/03/23 19:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/03/23 09:50	02/03/23 19:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/03/23 09:50	02/03/23 19:56	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/03/23 09:50	02/03/23 19:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/03/23 09:50	02/03/23 19:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/03/23 09:50	02/03/23 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*02/03/23 09:50*	*02/03/23 19:56*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*02/03/23 09:50*	*02/03/23 19:56*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-24113-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: SW-24b
Date Collected: 01/23/23 12:34
Date Received: 01/25/23 15:37

Lab Sample ID: 880-24113-2
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			02/04/23 10:12	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			02/05/23 09:31	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		02/03/23 09:29	02/05/23 00:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/03/23 09:29	02/05/23 00:57	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/03/23 09:29	02/05/23 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*02/03/23 09:29*	*02/05/23 00:57*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*02/03/23 09:29*	*02/05/23 00:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.1**		5.00		mg/Kg			01/31/23 12:31	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24113-1
SDG: 21-0105-08

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)										
880-24113-1	SW-25a	96	84										
880-24113-2	SW-24b	81	71										
LCS 880-45339/1-A	Lab Control Sample	98	95										
LCSD 880-45339/2-A	Lab Control Sample Dup	104	95										
MB 880-45339/5-A	Method Blank	75	93										

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)										
880-24113-1	SW-25a	99	93										
880-24113-2	SW-24b	100	95										
LCS 880-45338/2-A	Lab Control Sample	115	99										
LCSD 880-45338/3-A	Lab Control Sample Dup	114	98										
MB 880-45338/1-A	Method Blank	109	108										

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24113-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45339/5-A
Matrix: Solid
Analysis Batch: 45309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45339

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/03/23 09:50	02/03/23 12:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/03/23 09:50	02/03/23 12:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/03/23 09:50	02/03/23 12:24	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/03/23 09:50	02/03/23 12:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/03/23 09:50	02/03/23 12:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/03/23 09:50	02/03/23 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*02/03/23 09:50*	*02/03/23 12:24*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/03/23 09:50*	*02/03/23 12:24*	*1*

Lab Sample ID: LCS 880-45339/1-A
Matrix: Solid
Analysis Batch: 45309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45339

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1035		mg/Kg		103	70 - 130		
Toluene			0.100	0.09635		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09708		mg/Kg		97	70 - 130		
m,p-Xylenes			0.200	0.2017		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1095		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-45339/2-A
Matrix: Solid
Analysis Batch: 45309

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45339

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1043		mg/Kg		104	70 - 130	1	35
Toluene			0.100	0.09819		mg/Kg		98	70 - 130	2	35
Ethylbenzene			0.100	0.09855		mg/Kg		99	70 - 130	2	35
m,p-Xylenes			0.200	0.2080		mg/Kg		104	70 - 130	3	35
o-Xylene			0.100	0.1070		mg/Kg		107	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24113-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-45338/1-A
Matrix: Solid
Analysis Batch: 45443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45338

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/03/23 09:29	02/04/23 20:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/03/23 09:29	02/04/23 20:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/03/23 09:29	02/04/23 20:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*02/03/23 09:29*	*02/04/23 20:13*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*02/03/23 09:29*	*02/04/23 20:13*	*1*

Lab Sample ID: LCS 880-45338/2-A
Matrix: Solid
Analysis Batch: 45443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45338

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			999	970.1		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			999	939.7		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*115*		*70 - 130*
o-Terphenyl (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-45338/3-A
Matrix: Solid
Analysis Batch: 45443

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45338

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	874.8		mg/Kg		88	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			999	931.5		mg/Kg		93	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*114*		*70 - 130*
o-Terphenyl (Surr)	*98*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44975/1-A
Matrix: Solid
Analysis Batch: 45158

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			01/31/23 10:51	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24113-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-44975/2-A
Matrix: Solid
Analysis Batch: 45158

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 880-44975/3-A
Matrix: Solid
Analysis Batch: 45158

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	250.2		mg/Kg		100	90 - 110	3	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24113-1
SDG: 21-0105-08

GC VOA

Analysis Batch: 45309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24113-1	SW-25a	Total/NA	Solid	8021B	45339
880-24113-2	SW-24b	Total/NA	Solid	8021B	45339
MB 880-45339/5-A	Method Blank	Total/NA	Solid	8021B	45339
LCS 880-45339/1-A	Lab Control Sample	Total/NA	Solid	8021B	45339
LCSD 880-45339/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45339

Prep Batch: 45339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24113-1	SW-25a	Total/NA	Solid	5035	
880-24113-2	SW-24b	Total/NA	Solid	5035	
MB 880-45339/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45339/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45339/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 45470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24113-1	SW-25a	Total/NA	Solid	Total BTEX	
880-24113-2	SW-24b	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24113-1	SW-25a	Total/NA	Solid	8015NM Prep	
880-24113-2	SW-24b	Total/NA	Solid	8015NM Prep	
MB 880-45338/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45338/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45338/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24113-1	SW-25a	Total/NA	Solid	8015B NM	45338
880-24113-2	SW-24b	Total/NA	Solid	8015B NM	45338
MB 880-45338/1-A	Method Blank	Total/NA	Solid	8015B NM	45338
LCS 880-45338/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45338
LCSD 880-45338/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45338

Analysis Batch: 45506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24113-1	SW-25a	Total/NA	Solid	8015 NM	
880-24113-2	SW-24b	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24113-1	SW-25a	Soluble	Solid	DI Leach	
880-24113-2	SW-24b	Soluble	Solid	DI Leach	
MB 880-44975/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44975/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44975/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24113-1
SDG: 21-0105-08

HPLC/IC

Analysis Batch: 45158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24113-1	SW-25a	Soluble	Solid	300.0	44975
880-24113-2	SW-24b	Soluble	Solid	300.0	44975
MB 880-44975/1-A	Method Blank	Soluble	Solid	300.0	44975
LCS 880-44975/2-A	Lab Control Sample	Soluble	Solid	300.0	44975
LCSD 880-44975/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44975

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24113-1
SDG: 21-0105-08

Client Sample ID: SW-25a

Date Collected: 01/23/23 12:32
Date Received: 01/25/23 15:37

Lab Sample ID: 880-24113-1

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	45339	02/03/23 09:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45309	02/03/23 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45470	02/04/23 10:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45506	02/05/23 09:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45338	02/03/23 09:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45443	02/05/23 00:36	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44975	01/29/23 17:51	KS	EET MID
Soluble	Analysis	300.0		1			45158	01/31/23 12:27	CH	EET MID

Client Sample ID: SW-24b

Date Collected: 01/23/23 12:34
Date Received: 01/25/23 15:37

Lab Sample ID: 880-24113-2

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			5.03 g	5 mL	45339	02/03/23 09:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45309	02/03/23 19:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45470	02/04/23 10:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45506	02/05/23 09:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45338	02/03/23 09:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45443	02/05/23 00:57	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44975	01/29/23 17:51	KS	EET MID
Soluble	Analysis	300.0		1			45158	01/31/23 12:31	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: 880-24113-1
Project/Site: Boo Radley SDG: 21-0105-08

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: 880-24113-1
Project/Site: Boo Radley SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 880-24113-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-24113-1	SW-25a	Solid	01/23/23 12:32	01/25/23 15:37
880-24113-2	SW-24b	Solid	01/23/23 12:34	01/25/23 15:37

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24113 No. 2929

CHAIN-OF-CUSTODY

2/5/2023

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

Data Reported to

DATE 11/25/2023 PAGE 1 OF 1

PO# _____ LAB WORK ORDER#. _____

PROJECT LOCATION OR NAME Bee RADLEY

LAI PROJECT #: 21-0105-08 COLLECTOR DSG

TRRP report? ☐ Yes ☑ No

TIME ZONE Time zone/State: MNT/NM

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

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 ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☑ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
SW-25@		11/23/23	1232	S	1				✓		X		X	X	X												X		20'
SW-24b		11/23/23	1234	S	1				X		X		X	X	X												X		

880-24113 Chain of Custody

TOTAL 2

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Daniel Stephens	11/25/23 1537	
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 1.3/1.0 THERM# IR8 = 36
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-24113-1
SDG Number: 21-0105-08

Login Number: 24113
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 2/6/2023 10:10:39 AM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

880-23971-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 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
2/6/2023 10:10:39 AM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 880-23971-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-23971-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low 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.
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: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

Job ID: 880-23971-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-23971-1

Receipt
The samples were received on 1/23/2023 8:16 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 1.2°C

Receipt Exceptions
The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar

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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-45246 and analytical batch 880-45303 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: C-63 (880-23971-1). Evidence of matrix interferences is not obvious.

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

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

Released to Imaging: 1/9/2024 10:58:26 AM

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

Client Sample ID: C-63

Date Collected: 01/20/23 08:30
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-1

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		02/02/23 12:47	02/03/23 01:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/02/23 12:47	02/03/23 01:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/02/23 12:47	02/03/23 01:05	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/02/23 12:47	02/03/23 01:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/02/23 12:47	02/03/23 01:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/02/23 12:47	02/03/23 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*02/02/23 12:47*	*02/03/23 01:05*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*02/02/23 12:47*	*02/03/23 01:05*	*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			02/03/23 09:11	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			02/04/23 09:40	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 *1	49.9		mg/Kg		02/02/23 10:56	02/04/23 02:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/02/23 10:56	02/04/23 02:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/02/23 10:56	02/04/23 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*69*	*S1-*	*70 - 130*	*02/02/23 10:56*	*02/04/23 02:10*	*1*
o-Terphenyl (Surr)	*74*		*70 - 130*	*02/02/23 10:56*	*02/04/23 02:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.24**		5.01		mg/Kg			01/29/23 21:28	1

Client Sample ID: C-62

Date Collected: 01/20/23 08:32
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-2

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		02/02/23 12:47	02/03/23 01:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/02/23 12:47	02/03/23 01:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/02/23 12:47	02/03/23 01:26	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/02/23 12:47	02/03/23 01:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/02/23 12:47	02/03/23 01:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/02/23 12:47	02/03/23 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*02/02/23 12:47*	*02/03/23 01:26*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*02/02/23 12:47*	*02/03/23 01:26*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

Client Sample ID: C-62

Date Collected: 01/20/23 08:32
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-2

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			02/03/23 09:11	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			02/04/23 09:40	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 *1	49.9		mg/Kg		02/02/23 10:56	02/04/23 02:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/02/23 10:56	02/04/23 02:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/02/23 10:56	02/04/23 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*70*		*70 - 130*	*02/02/23 10:56*	*02/04/23 02:30*	*1*
o-Terphenyl (Surr)	*74*		*70 - 130*	*02/02/23 10:56*	*02/04/23 02:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.3**		4.98		mg/Kg			01/29/23 21:43	1

Client Sample ID: C-61

Date Collected: 01/20/23 08:34
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-3

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		02/02/23 12:47	02/03/23 01:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/03/23 01:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/03/23 01:46	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		02/02/23 12:47	02/03/23 01:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/03/23 01:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/02/23 12:47	02/03/23 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*02/02/23 12:47*	*02/03/23 01:46*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*02/02/23 12:47*	*02/03/23 01:46*	*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			02/03/23 09:11	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			02/04/23 09:40	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 *1	50.0		mg/Kg		02/02/23 10:56	02/04/23 02:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/02/23 10:56	02/04/23 02:52	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

Client Sample ID: C-61
Date Collected: 01/20/23 08:34
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-3
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)	<50.0	U	50.0		mg/Kg		02/02/23 10:56	02/04/23 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*02/02/23 10:56*	*02/04/23 02:52*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*02/02/23 10:56*	*02/04/23 02:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1140**		4.95		mg/Kg			01/29/23 21:48	1

Client Sample ID: C-60
Date Collected: 01/20/23 08:36
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-4
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		02/02/23 12:47	02/03/23 03:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/02/23 12:47	02/03/23 03:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/02/23 12:47	02/03/23 03:08	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		02/02/23 12:47	02/03/23 03:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/02/23 12:47	02/03/23 03:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/02/23 12:47	02/03/23 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*02/02/23 12:47*	*02/03/23 03:08*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/02/23 12:47*	*02/03/23 03:08*	*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			02/03/23 09:11	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			02/04/23 09:40	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 *1	49.9		mg/Kg		02/02/23 10:56	02/04/23 03:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/02/23 10:56	02/04/23 03:12	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/02/23 10:56	02/04/23 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*70*		*70 - 130*	*02/02/23 10:56*	*02/04/23 03:12*	*1*
o-Terphenyl (Surr)	*75*		*70 - 130*	*02/02/23 10:56*	*02/04/23 03:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.8**		5.00		mg/Kg			01/29/23 21:52	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

Client Sample ID: C-59

Date Collected: 01/20/23 08:38
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-5

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		02/02/23 12:47	02/03/23 03:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/03/23 03:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/03/23 03:28	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		02/02/23 12:47	02/03/23 03:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/03/23 03:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/02/23 12:47	02/03/23 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*02/02/23 12:47*	*02/03/23 03:28*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*02/02/23 12:47*	*02/03/23 03:28*	*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			02/03/23 09:11	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			02/04/23 09:40	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 *1	49.9		mg/Kg		02/02/23 10:56	02/04/23 03:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/02/23 10:56	02/04/23 03:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/02/23 10:56	02/04/23 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*70*		*70 - 130*	*02/02/23 10:56*	*02/04/23 03:33*	*1*
o-Terphenyl (Surr)	*74*		*70 - 130*	*02/02/23 10:56*	*02/04/23 03:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		4.99		mg/Kg			01/29/23 21:57	1

Client Sample ID: C-58

Date Collected: 01/20/23 08:40
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-6

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		02/02/23 12:47	02/03/23 03:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/02/23 12:47	02/03/23 03:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/02/23 12:47	02/03/23 03:49	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/02/23 12:47	02/03/23 03:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/02/23 12:47	02/03/23 03:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/02/23 12:47	02/03/23 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*02/02/23 12:47*	*02/03/23 03:49*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*02/02/23 12:47*	*02/03/23 03:49*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

Client Sample ID: C-58

Date Collected: 01/20/23 08:40
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-6

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			02/03/23 09:11	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			02/04/23 09:40	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 *1	49.9		mg/Kg		02/02/23 10:56	02/04/23 03:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/02/23 10:56	02/04/23 03:54	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/02/23 10:56	02/04/23 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*79*		*70 - 130*	*02/02/23 10:56*	*02/04/23 03:54*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*02/02/23 10:56*	*02/04/23 03:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.31**		5.02		mg/Kg			01/29/23 22:12	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

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)
880-23971-1	C-63	87	87
880-23971-2	C-62	91	75
880-23971-3	C-61	111	79
880-23971-4	C-60	82	92
880-23971-5	C-59	104	82
880-23971-6	C-58	84	77
LCS 880-45260/1-A	Lab Control Sample	106	101
LCSD 880-45260/2-A	Lab Control Sample Dup	96	110
MB 880-45241/5-A	Method Blank	75	92
MB 880-45260/5-A	Method Blank	69 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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-23971-1	C-63	69 S1-	74
880-23971-2	C-62	70	74
880-23971-3	C-61	82	89
880-23971-4	C-60	70	75
880-23971-5	C-59	70	74
880-23971-6	C-58	79	85
LCS 880-45246/2-A	Lab Control Sample	95	90
LCSD 880-45246/3-A	Lab Control Sample Dup	89	86
MB 880-45246/1-A	Method Blank	109	113

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45241/5-A
Matrix: Solid
Analysis Batch: 45231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45241

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/02/23 09:35	02/02/23 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/02/23 09:35	02/02/23 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/02/23 09:35	02/02/23 11:46	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/02/23 09:35	02/02/23 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/02/23 09:35	02/02/23 11:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/02/23 09:35	02/02/23 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*02/02/23 09:35*	*02/02/23 11:46*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/02/23 09:35*	*02/02/23 11:46*	*1*

Lab Sample ID: MB 880-45260/5-A
Matrix: Solid
Analysis Batch: 45231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45260

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/02/23 22:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/02/23 22:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/02/23 22:21	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/02/23 12:47	02/02/23 22:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/02/23 12:47	02/02/23 22:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/02/23 12:47	02/02/23 22:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*02/02/23 12:47*	*02/02/23 22:21*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/02/23 12:47*	*02/02/23 22:21*	*1*

Lab Sample ID: LCS 880-45260/1-A
Matrix: Solid
Analysis Batch: 45231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45260

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1073		mg/Kg		107	70 - 130		
Toluene			0.100	0.09934		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.1045		mg/Kg		105	70 - 130		
m,p-Xylenes			0.200	0.2173		mg/Kg		109	70 - 130		
o-Xylene			0.100	0.1087		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-45260/2-A
Matrix: Solid
Analysis Batch: 45231

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45260

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1234		mg/Kg		123	70 - 130	14	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-45260/2-A
Matrix: Solid
Analysis Batch: 45231

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45260

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1051		mg/Kg		105	70 - 130	6	35
Ethylbenzene	0.100	0.1023		mg/Kg		102	70 - 130	2	35
m,p-Xylenes	0.200	0.2062		mg/Kg		103	70 - 130	5	35
o-Xylene	0.100	0.1025		mg/Kg		103	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

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

Lab Sample ID: MB 880-45246/1-A
Matrix: Solid
Analysis Batch: 45303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45246

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/02/23 10:56	02/03/23 20:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/02/23 10:56	02/03/23 20:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/02/23 10:56	02/03/23 20:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*02/02/23 10:56*	*02/03/23 20:00*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*02/02/23 10:56*	*02/03/23 20:00*	*1*

Lab Sample ID: LCS 880-45246/2-A
Matrix: Solid
Analysis Batch: 45303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45246

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	999	939.7		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	999	1084		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*95*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-45246/3-A
Matrix: Solid
Analysis Batch: 45303

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45246

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	999	740.5	*1	mg/Kg		74	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	999	953.5		mg/Kg		95	70 - 130	13	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-45246/3-A
Matrix: Solid
Analysis Batch: 45303

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45246

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*89*		*70 - 130*
o-Terphenyl (Surr)	*86*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44786/1-A
Matrix: Solid
Analysis Batch: 45019

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			01/29/23 21:14	1

Lab Sample ID: LCS 880-44786/2-A
Matrix: Solid
Analysis Batch: 45019

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 880-44786/3-A
Matrix: Solid
Analysis Batch: 45019

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	254.5		mg/Kg		102	90 - 110	3	20

Lab Sample ID: 880-23971-1 MS
Matrix: Solid
Analysis Batch: 45019

Client Sample ID: C-63
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	6.24		251	276.5		mg/Kg		108	90 - 110		

Lab Sample ID: 880-23971-1 MSD
Matrix: Solid
Analysis Batch: 45019

Client Sample ID: C-63
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.24		251	269.1		mg/Kg		105	90 - 110	3	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

GC VOA

Analysis Batch: 45231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23971-1	C-63	Total/NA	Solid	8021B	45260
880-23971-2	C-62	Total/NA	Solid	8021B	45260
880-23971-3	C-61	Total/NA	Solid	8021B	45260
880-23971-4	C-60	Total/NA	Solid	8021B	45260
880-23971-5	C-59	Total/NA	Solid	8021B	45260
880-23971-6	C-58	Total/NA	Solid	8021B	45260
MB 880-45241/5-A	Method Blank	Total/NA	Solid	8021B	45241
MB 880-45260/5-A	Method Blank	Total/NA	Solid	8021B	45260
LCS 880-45260/1-A	Lab Control Sample	Total/NA	Solid	8021B	45260
LCSD 880-45260/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45260

Prep Batch: 45241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45241/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 45260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23971-1	C-63	Total/NA	Solid	5035	
880-23971-2	C-62	Total/NA	Solid	5035	
880-23971-3	C-61	Total/NA	Solid	5035	
880-23971-4	C-60	Total/NA	Solid	5035	
880-23971-5	C-59	Total/NA	Solid	5035	
880-23971-6	C-58	Total/NA	Solid	5035	
MB 880-45260/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45260/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45260/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 45330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23971-1	C-63	Total/NA	Solid	Total BTEX	
880-23971-2	C-62	Total/NA	Solid	Total BTEX	
880-23971-3	C-61	Total/NA	Solid	Total BTEX	
880-23971-4	C-60	Total/NA	Solid	Total BTEX	
880-23971-5	C-59	Total/NA	Solid	Total BTEX	
880-23971-6	C-58	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23971-1	C-63	Total/NA	Solid	8015NM Prep	
880-23971-2	C-62	Total/NA	Solid	8015NM Prep	
880-23971-3	C-61	Total/NA	Solid	8015NM Prep	
880-23971-4	C-60	Total/NA	Solid	8015NM Prep	
880-23971-5	C-59	Total/NA	Solid	8015NM Prep	
880-23971-6	C-58	Total/NA	Solid	8015NM Prep	
MB 880-45246/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45246/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

GC Semi VOA

Analysis Batch: 45303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23971-1	C-63	Total/NA	Solid	8015B NM	45246
880-23971-2	C-62	Total/NA	Solid	8015B NM	45246
880-23971-3	C-61	Total/NA	Solid	8015B NM	45246
880-23971-4	C-60	Total/NA	Solid	8015B NM	45246
880-23971-5	C-59	Total/NA	Solid	8015B NM	45246
880-23971-6	C-58	Total/NA	Solid	8015B NM	45246
MB 880-45246/1-A	Method Blank	Total/NA	Solid	8015B NM	45246
LCS 880-45246/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45246
LCSD 880-45246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45246

Analysis Batch: 45449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23971-1	C-63	Total/NA	Solid	8015 NM	
880-23971-2	C-62	Total/NA	Solid	8015 NM	
880-23971-3	C-61	Total/NA	Solid	8015 NM	
880-23971-4	C-60	Total/NA	Solid	8015 NM	
880-23971-5	C-59	Total/NA	Solid	8015 NM	
880-23971-6	C-58	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23971-1	C-63	Soluble	Solid	DI Leach	
880-23971-2	C-62	Soluble	Solid	DI Leach	
880-23971-3	C-61	Soluble	Solid	DI Leach	
880-23971-4	C-60	Soluble	Solid	DI Leach	
880-23971-5	C-59	Soluble	Solid	DI Leach	
880-23971-6	C-58	Soluble	Solid	DI Leach	
MB 880-44786/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44786/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44786/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23971-1 MS	C-63	Soluble	Solid	DI Leach	
880-23971-1 MSD	C-63	Soluble	Solid	DI Leach	

Analysis Batch: 45019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23971-1	C-63	Soluble	Solid	300.0	44786
880-23971-2	C-62	Soluble	Solid	300.0	44786
880-23971-3	C-61	Soluble	Solid	300.0	44786
880-23971-4	C-60	Soluble	Solid	300.0	44786
880-23971-5	C-59	Soluble	Solid	300.0	44786
880-23971-6	C-58	Soluble	Solid	300.0	44786
MB 880-44786/1-A	Method Blank	Soluble	Solid	300.0	44786
LCS 880-44786/2-A	Lab Control Sample	Soluble	Solid	300.0	44786
LCSD 880-44786/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44786
880-23971-1 MS	C-63	Soluble	Solid	300.0	44786
880-23971-1 MSD	C-63	Soluble	Solid	300.0	44786

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

Client Sample ID: C-63
Date Collected: 01/20/23 08:30
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-1
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	45260	02/02/23 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45231	02/03/23 01:05	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			45330	02/03/23 09:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45449	02/04/23 09:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45246	02/02/23 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45303	02/04/23 02:10	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44786	01/26/23 08:20	CH	EET MID
Soluble	Analysis	300.0		1			45019	01/29/23 21:28	CH	EET MID

Client Sample ID: C-62
Date Collected: 01/20/23 08:32
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-2
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			5.03 g	5 mL	45260	02/02/23 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45231	02/03/23 01:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			45330	02/03/23 09:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45449	02/04/23 09:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45246	02/02/23 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45303	02/04/23 02:30	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44786	01/26/23 08:20	CH	EET MID
Soluble	Analysis	300.0		1			45019	01/29/23 21:43	CH	EET MID

Client Sample ID: C-61
Date Collected: 01/20/23 08:34
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-3
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			5.01 g	5 mL	45260	02/02/23 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45231	02/03/23 01:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			45330	02/03/23 09:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45449	02/04/23 09:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45246	02/02/23 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45303	02/04/23 02:52	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	44786	01/26/23 08:20	CH	EET MID
Soluble	Analysis	300.0		1			45019	01/29/23 21:48	CH	EET MID

Client Sample ID: C-60
Date Collected: 01/20/23 08:36
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-4
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	45260	02/02/23 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45231	02/03/23 03:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			45330	02/03/23 09:11	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

Client Sample ID: C-60
Date Collected: 01/20/23 08:36
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-4
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			45449	02/04/23 09:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45246	02/02/23 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45303	02/04/23 03:12	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44786	01/26/23 08:20	CH	EET MID
Soluble	Analysis	300.0		1			45019	01/29/23 21:52	CH	EET MID

Client Sample ID: C-59
Date Collected: 01/20/23 08:38
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-5
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	45260	02/02/23 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45231	02/03/23 03:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			45330	02/03/23 09:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45449	02/04/23 09:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45246	02/02/23 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45303	02/04/23 03:33	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44786	01/26/23 08:20	CH	EET MID
Soluble	Analysis	300.0		1			45019	01/29/23 21:57	CH	EET MID

Client Sample ID: C-58
Date Collected: 01/20/23 08:40
Date Received: 01/23/23 08:16

Lab Sample ID: 880-23971-6
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	45260	02/02/23 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45231	02/03/23 03:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			45330	02/03/23 09:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45449	02/04/23 09:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45246	02/02/23 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45303	02/04/23 03:54	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44786	01/26/23 08:20	CH	EET MID
Soluble	Analysis	300.0		1			45019	01/29/23 22:12	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: 880-23971-1
Project/Site: Boo Radley SDG: 21-0105-08

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: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

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	EPA	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
EPA = US Environmental Protection Agency
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: Boo Radley

Job ID: 880-23971-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23971-1	C-63	Solid	01/20/23 08:30	01/23/23 08:16
880-23971-2	C-62	Solid	01/20/23 08:32	01/23/23 08:16
880-23971-3	C-61	Solid	01/20/23 08:34	01/23/23 08:16
880-23971-4	C-60	Solid	01/20/23 08:36	01/23/23 08:16
880-23971-5	C-59	Solid	01/20/23 08:38	01/23/23 08:16
880-23971-6	C-58	Solid	01/20/23 08:40	01/23/23 08:16

23971

No. 2793

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 1/20/2023 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR DSG

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MNT / 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	ANALYSES	FIELD NOTES
C-63		1/20/23	0830	S	1				X		X	
C-62		1/20/23	0832	S	1				X		X	202
C-61		1/20/23	0834	S	1				X		X	
C-60		1/20/23	0836	S	1				X		X	
C-59		1/20/23	0838	S	1				X		X	
C-58		1/20/23	0840	S	1				X		X	

880-23971 Chain of Custody

TOTAL 6

RELINQUISHED BY (Signature)	DATE/TIME 1/23/23	RECEIVED BY (Signature) 0816
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 15/1.2 THERM# DR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Page 382 of 968
Received by OCD: 7/19/2023 8:51:08 AM
Page 22 of 23
2/6/2023
Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-23971-1
SDG Number: 21-0105-08

Login Number: 23971
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 2/20/2023 6:07:59 AM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

880-24624-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 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
2/20/2023 6:07:59 AM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 880-24624-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-24624-1
Project/Site: Boo Radley SDG: 21-0105-08

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
*1	LCS/LCSD RPD exceeds control limits.
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. Job ID: 880-24624-1
Project/Site: Boo Radley SDG: 21-0105-08

Job ID: 880-24624-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-24624-1

Receipt
The samples were received on 2/13/2023 9:21 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 time was 0.1°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-27 4.5 (880-24624-1), C-31 4.5 (880-24624-2), C-35 4.5 (880-24624-3), C-43 4.5 (880-24624-4), SW-24a 0-4.5 (880-24624-5), SW-24b 0-4.5 (880-24624-6), C-44 5.5 (880-24624-7), C-46 5.5 (880-24624-8), C-61 5.5 (880-24624-9), SW-19a 0-3' (880-24624-10), SW-19b 0-3' (880-24624-11), SW-21a 0-3' (880-24624-12) and SW-21b 0-3' (880-24624-13).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: C-43 4.5 (880-24624-4), SW-24b 0-4.5 (880-24624-6), C-44 5.5 (880-24624-7), C-46 5.5 (880-24624-8), C-61 5.5 (880-24624-9), SW-21a 0-3' (880-24624-12), SW-21b 0-3' (880-24624-13) and (LCSD 880-46331/2-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 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46409 and analytical batch 880-46479 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

Client Sample ID: C-27 4.5

Date Collected: 02/08/23 13:10
Date Received: 02/13/23 09:21

Lab Sample ID: 880-24624-1

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		02/14/23 14:57	02/16/23 00:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/14/23 14:57	02/16/23 00:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/14/23 14:57	02/16/23 00:47	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		02/14/23 14:57	02/16/23 00:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/14/23 14:57	02/16/23 00:47	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/14/23 14:57	02/16/23 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*02/14/23 14:57*	*02/16/23 00:47*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*02/14/23 14:57*	*02/16/23 00:47*	*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			02/16/23 09:32	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			02/15/23 15:15	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		02/15/23 08:44	02/15/23 10:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/15/23 08:44	02/15/23 10:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/15/23 08:44	02/15/23 10:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*02/15/23 08:44*	*02/15/23 10:49*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*02/15/23 08:44*	*02/15/23 10:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.4**		5.01		mg/Kg			02/14/23 23:46	1

Client Sample ID: C-31 4.5

Date Collected: 02/08/23 13:12
Date Received: 02/13/23 09:21

Lab Sample ID: 880-24624-2

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		02/14/23 14:57	02/16/23 01:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 01:07	1
Ethylbenzene	**0.00206**		0.00199		mg/Kg		02/14/23 14:57	02/16/23 01:07	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 01:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 01:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*02/14/23 14:57*	*02/16/23 01:07*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/14/23 14:57*	*02/16/23 01:07*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-24624-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-31 4.5 — Lab Sample ID: 880-24624-2

Date Collected: 02/08/23 13:12 **Matrix: Solid**
Date Received: 02/13/23 09:21

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			02/16/23 09:32	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			02/16/23 09:18	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		02/15/23 12:00	02/15/23 21:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/15/23 12:00	02/15/23 21:04	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/15/23 12:00	02/15/23 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*02/15/23 12:00*	*02/15/23 21:04*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*02/15/23 12:00*	*02/15/23 21:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**193**		5.00		mg/Kg			02/14/23 23:51	1

Client Sample ID: C-35 4.5 — Lab Sample ID: 880-24624-3

Date Collected: 02/08/23 13:14 **Matrix: Solid**
Date Received: 02/13/23 09:21

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		02/14/23 14:57	02/16/23 01:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 01:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 01:28	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 01:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 01:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*02/14/23 14:57*	*02/16/23 01:28*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*02/14/23 14:57*	*02/16/23 01:28*	*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			02/16/23 09:32	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			02/16/23 09:18	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		02/15/23 12:00	02/15/23 22:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/15/23 12:00	02/15/23 22:09	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-24624-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-35 4.5 Lab Sample ID: 880-24624-3

Date Collected: 02/08/23 13:14 **Matrix: Solid**
Date Received: 02/13/23 09:21

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		02/15/23 12:00	02/15/23 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*02/15/23 12:00*	*02/15/23 22:09*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*02/15/23 12:00*	*02/15/23 22:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		5.00		mg/Kg			02/14/23 23:56	1

Client Sample ID: C-43 4.5 Lab Sample ID: 880-24624-4

Date Collected: 02/08/23 13:16 **Matrix: Solid**
Date Received: 02/13/23 09:21

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		02/14/23 14:57	02/16/23 01:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 01:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 01:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 01:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 01:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*02/14/23 14:57*	*02/16/23 01:48*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/14/23 14:57*	*02/16/23 01:48*	*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			02/16/23 09:32	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			02/16/23 11:51	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		02/14/23 12:14	02/16/23 02:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/14/23 12:14	02/16/23 02:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/14/23 12:14	02/16/23 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*02/14/23 12:14*	*02/16/23 02:30*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*02/14/23 12:14*	*02/16/23 02:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**147**		5.02		mg/Kg			02/15/23 00:10	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

Client Sample ID: SW-24a 0-4.5

Lab Sample ID: 880-24624-5
Matrix: Solid
Date Collected: 02/08/23 14:00
Date Received: 02/13/23 09:21

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		02/14/23 14:57	02/16/23 02:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 02:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 02:08	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		02/14/23 14:57	02/16/23 02:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 02:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/14/23 14:57	02/16/23 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*02/14/23 14:57*	*02/16/23 02:08*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/14/23 14:57*	*02/16/23 02:08*	*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			02/16/23 09:32	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			02/16/23 11:51	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		02/14/23 12:14	02/16/23 02:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/14/23 12:14	02/16/23 02:51	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/14/23 12:14	02/16/23 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*02/14/23 12:14*	*02/16/23 02:51*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*02/14/23 12:14*	*02/16/23 02:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/15/23 00:14	1

Client Sample ID: SW-24b 0-4.5

Lab Sample ID: 880-24624-6
Matrix: Solid
Date Collected: 02/08/23 14:02
Date Received: 02/13/23 09:21

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		02/14/23 14:57	02/16/23 02:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 02:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 02:29	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 02:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 02:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*02/14/23 14:57*	*02/16/23 02:29*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/14/23 14:57*	*02/16/23 02:29*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

Client Sample ID: SW-24b 0-4.5

Date Collected: 02/08/23 14:02
Date Received: 02/13/23 09:21

Lab Sample ID: 880-24624-6
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			02/16/23 09:32	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			02/16/23 11:51	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		02/14/23 12:14	02/16/23 03:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/14/23 12:14	02/16/23 03:12	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/14/23 12:14	02/16/23 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*02/14/23 12:14*	*02/16/23 03:12*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*02/14/23 12:14*	*02/16/23 03:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			02/15/23 00:29	1

Client Sample ID: C-44 5.5

Date Collected: 02/09/23 09:10
Date Received: 02/13/23 09:21

Lab Sample ID: 880-24624-7
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		02/14/23 14:57	02/16/23 02:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/14/23 14:57	02/16/23 02:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/14/23 14:57	02/16/23 02:49	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		02/14/23 14:57	02/16/23 02:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/14/23 14:57	02/16/23 02:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/14/23 14:57	02/16/23 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*02/14/23 14:57*	*02/16/23 02:49*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/14/23 14:57*	*02/16/23 02:49*	*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			02/16/23 09:32	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			02/19/23 12:25	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		02/15/23 11:56	02/16/23 20:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/15/23 11:56	02/16/23 20:55	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-24624-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-44 5.5 Lab Sample ID: 880-24624-7

Date Collected: 02/09/23 09:10 **Matrix: Solid**
Date Received: 02/13/23 09:21

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		02/15/23 11:56	02/16/23 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*02/15/23 11:56*	*02/16/23 20:55*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*02/15/23 11:56*	*02/16/23 20:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.78**		4.95		mg/Kg			02/15/23 00:33	1

Client Sample ID: C-46 5.5 Lab Sample ID: 880-24624-8

Date Collected: 02/09/23 09:12 **Matrix: Solid**
Date Received: 02/13/23 09:21

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		02/14/23 14:57	02/16/23 03:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 03:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 03:10	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 03:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 03:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*02/14/23 14:57*	*02/16/23 03:10*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/14/23 14:57*	*02/16/23 03:10*	*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			02/16/23 09:32	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			02/19/23 12:25	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		02/15/23 11:56	02/16/23 22:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/15/23 11:56	02/16/23 22:01	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/15/23 11:56	02/16/23 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*02/15/23 11:56*	*02/16/23 22:01*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*02/15/23 11:56*	*02/16/23 22:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.42**		5.00		mg/Kg			02/15/23 00:38	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

Client Sample ID: C-61 5.5

Date Collected: 02/09/23 09:30
Date Received: 02/13/23 09:21

Lab Sample ID: 880-24624-9

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		02/14/23 14:57	02/16/23 03:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 03:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 03:30	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 03:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 03:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*02/14/23 14:57*	*02/16/23 03:30*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/14/23 14:57*	*02/16/23 03:30*	*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			02/16/23 09:32	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			02/19/23 12:25	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		02/15/23 11:56	02/16/23 22:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		02/15/23 11:56	02/16/23 22:23	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/15/23 11:56	02/16/23 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*02/15/23 11:56*	*02/16/23 22:23*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*02/15/23 11:56*	*02/16/23 22:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**307**		4.99		mg/Kg			02/15/23 00:43	1

Client Sample ID: SW-19a 0-3'

Date Collected: 02/09/23 12:25
Date Received: 02/13/23 09:21

Lab Sample ID: 880-24624-10

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		02/14/23 14:57	02/16/23 03:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 03:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 03:51	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 03:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 03:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/14/23 14:57*	*02/16/23 03:51*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/14/23 14:57*	*02/16/23 03:51*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-24624-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: SW-19a 0-3'
Lab Sample ID: 880-24624-10
Date Collected: 02/09/23 12:25 **Matrix: Solid**
Date Received: 02/13/23 09:21

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			02/16/23 09:32	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			02/19/23 12:25	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		02/15/23 11:56	02/16/23 22:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/15/23 11:56	02/16/23 22:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/15/23 11:56	02/16/23 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*02/15/23 11:56*	*02/16/23 22:45*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*02/15/23 11:56*	*02/16/23 22:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**48.3**		5.01		mg/Kg			02/15/23 00:47	1

Client Sample ID: SW-19b 0-3'
Lab Sample ID: 880-24624-11
Date Collected: 02/09/23 12:27 **Matrix: Solid**
Date Received: 02/13/23 09:21

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		02/14/23 14:57	02/16/23 05:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 05:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 05:41	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 05:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 05:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*02/14/23 14:57*	*02/16/23 05:41*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/14/23 14:57*	*02/16/23 05:41*	*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			02/16/23 09:32	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			02/19/23 12:25	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		02/15/23 11:56	02/16/23 23:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/15/23 11:56	02/16/23 23:07	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-24624-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: SW-19b 0-3' Lab Sample ID: 880-24624-11

Date Collected: 02/09/23 12:27 **Matrix: Solid**
Date Received: 02/13/23 09:21

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		02/15/23 11:56	02/16/23 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*02/15/23 11:56*	*02/16/23 23:07*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*02/15/23 11:56*	*02/16/23 23:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.3**		4.97		mg/Kg			02/15/23 00:52	1

Client Sample ID: SW-21a 0-3' Lab Sample ID: 880-24624-12

Date Collected: 02/09/23 12:28 **Matrix: Solid**
Date Received: 02/13/23 09:21

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		02/14/23 14:57	02/16/23 06:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 06:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 06:01	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		02/14/23 14:57	02/16/23 06:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 06:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/14/23 14:57	02/16/23 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*02/14/23 14:57*	*02/16/23 06:01*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/14/23 14:57*	*02/16/23 06:01*	*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			02/16/23 09:32	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			02/19/23 12:25	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		02/15/23 11:56	02/16/23 23:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/15/23 11:56	02/16/23 23:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/15/23 11:56	02/16/23 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*02/15/23 11:56*	*02/16/23 23:30*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*02/15/23 11:56*	*02/16/23 23:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76.2**		4.98		mg/Kg			02/15/23 00:57	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

Client Sample ID: SW-21b 0-3'

Date Collected: 02/09/23 12:30
Date Received: 02/13/23 09:21

Lab Sample ID: 880-24624-13

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		02/14/23 14:57	02/16/23 06:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/14/23 14:57	02/16/23 06:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/14/23 14:57	02/16/23 06:21	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		02/14/23 14:57	02/16/23 06:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/14/23 14:57	02/16/23 06:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/14/23 14:57	02/16/23 06:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*	*02/14/23 14:57*	*02/16/23 06:21*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/14/23 14:57*	*02/16/23 06:21*	*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			02/16/23 09:32	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			02/19/23 12:25	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		02/15/23 11:56	02/16/23 23:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/15/23 11:56	02/16/23 23:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/15/23 11:56	02/16/23 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*73*		*70 - 130*	*02/15/23 11:56*	*02/16/23 23:52*	*1*
o-Terphenyl (Surr)	*81*		*70 - 130*	*02/15/23 11:56*	*02/16/23 23:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.1**		4.99		mg/Kg			02/13/23 17:11	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

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)
880-24624-1	C-27 4.5	128	103
880-24624-1 MS	C-27 4.5	123	104
880-24624-1 MSD	C-27 4.5	115	107
880-24624-2	C-31 4.5	124	97
880-24624-3	C-35 4.5	116	89
880-24624-4	C-43 4.5	133 S1+	108
880-24624-5	SW-24a 0-4.5	130	109
880-24624-6	SW-24b 0-4.5	134 S1+	107
880-24624-7	C-44 5.5	136 S1+	111
880-24624-8	C-46 5.5	131 S1+	107
880-24624-9	C-61 5.5	135 S1+	107
880-24624-10	SW-19a 0-3'	114	92
880-24624-11	SW-19b 0-3'	127	107
880-24624-12	SW-21a 0-3'	137 S1+	107
880-24624-13	SW-21b 0-3'	154 S1+	96
LCS 880-46331/1-A	Lab Control Sample	115	106
LCSD 880-46331/2-A	Lab Control Sample Dup	58 S1-	104
MB 880-46304/5-A	Method Blank	118	105
MB 880-46331/5-A	Method Blank	122	101

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)
880-24624-1	C-27 4.5	92	86
880-24624-1 MS	C-27 4.5	82	77
880-24624-1 MSD	C-27 4.5	92	78
880-24624-2	C-31 4.5	91	100
880-24624-2 MS	C-31 4.5	108	110
880-24624-2 MSD	C-31 4.5	94	98
880-24624-3	C-35 4.5	83	96
880-24624-4	C-43 4.5	89	85
880-24624-5	SW-24a 0-4.5	86	84
880-24624-6	SW-24b 0-4.5	84	79
880-24624-7	C-44 5.5	91	113
880-24624-7 MS	C-44 5.5	85	91
880-24624-7 MSD	C-44 5.5	99	107
880-24624-8	C-46 5.5	93	117
880-24624-9	C-61 5.5	105	122
880-24624-10	SW-19a 0-3'	87	103
880-24624-11	SW-19b 0-3'	97	108
880-24624-12	SW-21a 0-3'	81	89
880-24624-13	SW-21b 0-3'	73	81
LCS 880-46316/2-A	Lab Control Sample	91	93

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-24624-1
Project/Site: Boo Radley SDG: 21-0105-08

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)										
LCS 880-46370/2-A	Lab Control Sample	91	93										
LCS 880-46409/2-A	Lab Control Sample	98	113										
LCS 880-46410/2-A	Lab Control Sample	94	103										
LCSD 880-46316/3-A	Lab Control Sample Dup	91	90										
LCSD 880-46370/3-A	Lab Control Sample Dup	91	94										
LCSD 880-46409/3-A	Lab Control Sample Dup	85	99										
LCSD 880-46410/3-A	Lab Control Sample Dup	92	100										
MB 880-46316/1-A	Method Blank	94	91										
MB 880-46370/1-A	Method Blank	82	82										
MB 880-46409/1-A	Method Blank	85	108										
MB 880-46410/1-A	Method Blank	86	102										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46304/5-A
Matrix: Solid
Analysis Batch: 46357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46304

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:29	02/15/23 12:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:29	02/15/23 12:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:29	02/15/23 12:43	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/14/23 11:29	02/15/23 12:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:29	02/15/23 12:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/14/23 11:29	02/15/23 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*02/14/23 11:29*	*02/15/23 12:43*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*02/14/23 11:29*	*02/15/23 12:43*	*1*

Lab Sample ID: MB 880-46331/5-A
Matrix: Solid
Analysis Batch: 46357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46331

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 00:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 00:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 00:18	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/14/23 14:57	02/16/23 00:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 00:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/14/23 14:57	02/16/23 00:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*02/14/23 14:57*	*02/16/23 00:18*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/14/23 14:57*	*02/16/23 00:18*	*1*

Lab Sample ID: LCS 880-46331/1-A
Matrix: Solid
Analysis Batch: 46357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46331

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1108		mg/Kg		111	70 - 130		
Toluene			0.100	0.1072		mg/Kg		107	70 - 130		
Ethylbenzene			0.100	0.1064		mg/Kg		106	70 - 130		
m,p-Xylenes			0.200	0.2221		mg/Kg		111	70 - 130		
o-Xylene			0.100	0.1080		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-46331/2-A
Matrix: Solid
Analysis Batch: 46357

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46331

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1176		mg/Kg		118	70 - 130	6	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-46331/2-A
Matrix: Solid
Analysis Batch: 46357

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46331

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1137		mg/Kg		114	70 - 130	6	35
Ethylbenzene			0.100	0.1091		mg/Kg		109	70 - 130	3	35
m,p-Xylenes			0.200	0.2289		mg/Kg		114	70 - 130	3	35
o-Xylene			0.100	0.1120		mg/Kg		112	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*58*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-24624-1 MS
Matrix: Solid
Analysis Batch: 46357

Client Sample ID: C-27 4.5
Prep Type: Total/NA
Prep Batch: 46331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.09696		mg/Kg		97	70 - 130
Toluene	<0.00202	U	0.100	0.09416		mg/Kg		94	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.09388		mg/Kg		93	70 - 130
m,p-Xylenes	<0.00403	U	0.201	0.1964		mg/Kg		98	70 - 130
o-Xylene	<0.00202	U	0.100	0.09605		mg/Kg		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-24624-1 MSD
Matrix: Solid
Analysis Batch: 46357

Client Sample ID: C-27 4.5
Prep Type: Total/NA
Prep Batch: 46331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.1121		mg/Kg		113	70 - 130	15	35
Toluene	<0.00202	U	0.0990	0.1049		mg/Kg		106	70 - 130	11	35
Ethylbenzene	<0.00202	U	0.0990	0.1014		mg/Kg		102	70 - 130	8	35
m,p-Xylenes	<0.00403	U	0.198	0.2102		mg/Kg		106	70 - 130	7	35
o-Xylene	<0.00202	U	0.0990	0.1001		mg/Kg		101	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

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

Lab Sample ID: MB 880-46316/1-A
Matrix: Solid
Analysis Batch: 46351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46316

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/14/23 12:14	02/15/23 19:57	1

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-24624-1
Project/Site: Boo Radley SDG: 21-0105-08

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

Lab Sample ID: MB 880-46316/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 46351 **Prep Batch: 46316**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/14/23 12:14	02/15/23 19:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/14/23 12:14	02/15/23 19:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*02/14/23 12:14*	*02/15/23 19:57*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*02/14/23 12:14*	*02/15/23 19:57*	*1*

Lab Sample ID: LCS 880-46316/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 46351 **Prep Batch: 46316**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	867.8		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	940.4		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*91*		*70 - 130*
o-Terphenyl (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-46316/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 46351 **Prep Batch: 46316**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	875.4		mg/Kg		88	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	914.6		mg/Kg		91	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*91*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Lab Sample ID: MB 880-46370/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 46351 **Prep Batch: 46370**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/15/23 07:44	02/15/23 08:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/15/23 07:44	02/15/23 08:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/15/23 07:44	02/15/23 08:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*02/15/23 07:44*	*02/15/23 08:08*	*1*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-46370/1-A
Matrix: Solid
Analysis Batch: 46351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46370

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	82		70 - 130	02/15/23 07:44	02/15/23 08:08	1

Lab Sample ID: LCS 880-46370/2-A
Matrix: Solid
Analysis Batch: 46351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46370

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	883.2		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	936.2		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	91		70 - 130
o-Terphenyl (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-46370/3-A
Matrix: Solid
Analysis Batch: 46351

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46370

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	871.1		mg/Kg		87	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	940.7		mg/Kg		94	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	91		70 - 130
o-Terphenyl (Surr)	94		70 - 130

Lab Sample ID: 880-24624-1 MS
Matrix: Solid
Analysis Batch: 46351

Client Sample ID: C-27 4.5
Prep Type: Total/NA
Prep Batch: 46370

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	877.5		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	801.4		mg/Kg		78	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	82		70 - 130
o-Terphenyl (Surr)	77		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

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

Lab Sample ID: 880-24624-1 MSD
Matrix: Solid
Analysis Batch: 46351

Client Sample ID: C-27 4.5
Prep Type: Total/NA
Prep Batch: 46370

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	1000	879.1		mg/Kg		85	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	819.3		mg/Kg		80	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*92*		*70 - 130*
o-Terphenyl (Surr)	*78*		*70 - 130*

Lab Sample ID: MB 880-46409/1-A
Matrix: Solid
Analysis Batch: 46479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46409

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/15/23 11:56	02/16/23 19:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/15/23 11:56	02/16/23 19:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/15/23 11:56	02/16/23 19:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*02/15/23 11:56*	*02/16/23 19:48*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*02/15/23 11:56*	*02/16/23 19:48*	*1*

Lab Sample ID: LCS 880-46409/2-A
Matrix: Solid
Analysis Batch: 46479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46409

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1045		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1061		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*98*		*70 - 130*
o-Terphenyl (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-46409/3-A
Matrix: Solid
Analysis Batch: 46479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46409

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	893.1		mg/Kg		89	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	849.0	*1	mg/Kg		85	70 - 130	22	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-46409/3-A
Matrix: Solid
Analysis Batch: 46479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46409

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	85		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Lab Sample ID: 880-24624-7 MS
Matrix: Solid
Analysis Batch: 46479

Client Sample ID: C-44 5.5
Prep Type: Total/NA
Prep Batch: 46409

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	1000	1023		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *1	1000	940.4		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	85		70 - 130
o-Terphenyl (Surr)	91		70 - 130

Lab Sample ID: 880-24624-7 MSD
Matrix: Solid
Analysis Batch: 46479

Client Sample ID: C-44 5.5
Prep Type: Total/NA
Prep Batch: 46409

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	1000	1044		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1	1000	1103		mg/Kg		109	70 - 130	16	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	107		70 - 130

Lab Sample ID: MB 880-46410/1-A
Matrix: Solid
Analysis Batch: 46349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46410

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/15/23 12:00	02/15/23 19:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/15/23 12:00	02/15/23 19:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/15/23 12:00	02/15/23 19:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130	02/15/23 12:00	02/15/23 19:57	1
o-Terphenyl (Surr)	102		70 - 130	02/15/23 12:00	02/15/23 19:57	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

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

Lab Sample ID: LCS 880-46410/2-A
Matrix: Solid
Analysis Batch: 46349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46410

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	936.5		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	968.1		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*94*		*70 - 130*
o-Terphenyl (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-46410/3-A
Matrix: Solid
Analysis Batch: 46349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46410

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	957.6		mg/Kg		96	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	894.9		mg/Kg		89	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*92*		*70 - 130*
o-Terphenyl (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-24624-2 MS
Matrix: Solid
Analysis Batch: 46349

Client Sample ID: C-31 4.5
Prep Type: Total/NA
Prep Batch: 46410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1022		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	1074		mg/Kg		105	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*108*		*70 - 130*
o-Terphenyl (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-24624-2 MSD
Matrix: Solid
Analysis Batch: 46349

Client Sample ID: C-31 4.5
Prep Type: Total/NA
Prep Batch: 46410

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	<49.8	U	1000	949.2		mg/Kg		92	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	956.4		mg/Kg		93	70 - 130	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*94*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

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

Lab Sample ID: 880-24624-2 MSD
Matrix: Solid
Analysis Batch: 46349

Client Sample ID: C-31 4.5
Prep Type: Total/NA
Prep Batch: 46410

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl (Surr)	98		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46112/1-A
Matrix: Solid
Analysis Batch: 46189

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/13/23 16:16	1

Lab Sample ID: LCS 880-46112/2-A
Matrix: Solid
Analysis Batch: 46189

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.2		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-46112/3-A
Matrix: Solid
Analysis Batch: 46189

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	242.0		mg/Kg		97	90 - 110	1	20

Lab Sample ID: MB 880-46277/1-A
Matrix: Solid
Analysis Batch: 46329

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/14/23 22:37	1

Lab Sample ID: LCS 880-46277/2-A
Matrix: Solid
Analysis Batch: 46329

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.3		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-46277/3-A
Matrix: Solid
Analysis Batch: 46329

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	240.3		mg/Kg		96	90 - 110	3	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-24624-3 MS
Matrix: Solid
Analysis Batch: 46329

Client Sample ID: C-35 4.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	200		250	456.0		mg/Kg		102	90 - 110		

Lab Sample ID: 880-24624-3 MSD
Matrix: Solid
Analysis Batch: 46329

Client Sample ID: C-35 4.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	200		250	448.4		mg/Kg		99	90 - 110	2	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

GC VOA

Prep Batch: 46304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46304/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 46331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-1	C-27 4.5	Total/NA	Solid	5035	
880-24624-2	C-31 4.5	Total/NA	Solid	5035	
880-24624-3	C-35 4.5	Total/NA	Solid	5035	
880-24624-4	C-43 4.5	Total/NA	Solid	5035	
880-24624-5	SW-24a 0-4.5	Total/NA	Solid	5035	
880-24624-6	SW-24b 0-4.5	Total/NA	Solid	5035	
880-24624-7	C-44 5.5	Total/NA	Solid	5035	
880-24624-8	C-46 5.5	Total/NA	Solid	5035	
880-24624-9	C-61 5.5	Total/NA	Solid	5035	
880-24624-10	SW-19a 0-3'	Total/NA	Solid	5035	
880-24624-11	SW-19b 0-3'	Total/NA	Solid	5035	
880-24624-12	SW-21a 0-3'	Total/NA	Solid	5035	
880-24624-13	SW-21b 0-3'	Total/NA	Solid	5035	
MB 880-46331/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46331/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46331/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24624-1 MS	C-27 4.5	Total/NA	Solid	5035	
880-24624-1 MSD	C-27 4.5	Total/NA	Solid	5035	

Analysis Batch: 46357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-1	C-27 4.5	Total/NA	Solid	8021B	46331
880-24624-2	C-31 4.5	Total/NA	Solid	8021B	46331
880-24624-3	C-35 4.5	Total/NA	Solid	8021B	46331
880-24624-4	C-43 4.5	Total/NA	Solid	8021B	46331
880-24624-5	SW-24a 0-4.5	Total/NA	Solid	8021B	46331
880-24624-6	SW-24b 0-4.5	Total/NA	Solid	8021B	46331
880-24624-7	C-44 5.5	Total/NA	Solid	8021B	46331
880-24624-8	C-46 5.5	Total/NA	Solid	8021B	46331
880-24624-9	C-61 5.5	Total/NA	Solid	8021B	46331
880-24624-10	SW-19a 0-3'	Total/NA	Solid	8021B	46331
880-24624-11	SW-19b 0-3'	Total/NA	Solid	8021B	46331
880-24624-12	SW-21a 0-3'	Total/NA	Solid	8021B	46331
880-24624-13	SW-21b 0-3'	Total/NA	Solid	8021B	46331
MB 880-46304/5-A	Method Blank	Total/NA	Solid	8021B	46304
MB 880-46331/5-A	Method Blank	Total/NA	Solid	8021B	46331
LCS 880-46331/1-A	Lab Control Sample	Total/NA	Solid	8021B	46331
LCSD 880-46331/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46331
880-24624-1 MS	C-27 4.5	Total/NA	Solid	8021B	46331
880-24624-1 MSD	C-27 4.5	Total/NA	Solid	8021B	46331

Analysis Batch: 46502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-1	C-27 4.5	Total/NA	Solid	Total BTEX	
880-24624-2	C-31 4.5	Total/NA	Solid	Total BTEX	
880-24624-3	C-35 4.5	Total/NA	Solid	Total BTEX	
880-24624-4	C-43 4.5	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-24624-1
Project/Site: Boo Radley SDG: 21-0105-08

GC VOA (Continued)

Analysis Batch: 46502 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-5	SW-24a 0-4.5	Total/NA	Solid	Total BTEX	
880-24624-6	SW-24b 0-4.5	Total/NA	Solid	Total BTEX	
880-24624-7	C-44 5.5	Total/NA	Solid	Total BTEX	
880-24624-8	C-46 5.5	Total/NA	Solid	Total BTEX	
880-24624-9	C-61 5.5	Total/NA	Solid	Total BTEX	
880-24624-10	SW-19a 0-3'	Total/NA	Solid	Total BTEX	
880-24624-11	SW-19b 0-3'	Total/NA	Solid	Total BTEX	
880-24624-12	SW-21a 0-3'	Total/NA	Solid	Total BTEX	
880-24624-13	SW-21b 0-3'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 46316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-4	C-43 4.5	Total/NA	Solid	8015NM Prep	
880-24624-5	SW-24a 0-4.5	Total/NA	Solid	8015NM Prep	
880-24624-6	SW-24b 0-4.5	Total/NA	Solid	8015NM Prep	
MB 880-46316/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46316/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46316/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-2	C-31 4.5	Total/NA	Solid	8015B NM	46410
880-24624-3	C-35 4.5	Total/NA	Solid	8015B NM	46410
MB 880-46410/1-A	Method Blank	Total/NA	Solid	8015B NM	46410
LCS 880-46410/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46410
LCSD 880-46410/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46410
880-24624-2 MS	C-31 4.5	Total/NA	Solid	8015B NM	46410
880-24624-2 MSD	C-31 4.5	Total/NA	Solid	8015B NM	46410

Analysis Batch: 46351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-1	C-27 4.5	Total/NA	Solid	8015B NM	46370
880-24624-4	C-43 4.5	Total/NA	Solid	8015B NM	46316
880-24624-5	SW-24a 0-4.5	Total/NA	Solid	8015B NM	46316
880-24624-6	SW-24b 0-4.5	Total/NA	Solid	8015B NM	46316
MB 880-46316/1-A	Method Blank	Total/NA	Solid	8015B NM	46316
MB 880-46370/1-A	Method Blank	Total/NA	Solid	8015B NM	46370
LCS 880-46316/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46316
LCS 880-46370/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46370
LCSD 880-46316/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46316
LCSD 880-46370/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46370
880-24624-1 MS	C-27 4.5	Total/NA	Solid	8015B NM	46370
880-24624-1 MSD	C-27 4.5	Total/NA	Solid	8015B NM	46370

Prep Batch: 46370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-1	C-27 4.5	Total/NA	Solid	8015NM Prep	
MB 880-46370/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46370/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-24624-1
Project/Site: Boo Radley SDG: 21-0105-08

GC Semi VOA (Continued)

Prep Batch: 46370 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-46370/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24624-1 MS	C-27 4.5	Total/NA	Solid	8015NM Prep	
880-24624-1 MSD	C-27 4.5	Total/NA	Solid	8015NM Prep	

Prep Batch: 46409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-7	C-44 5.5	Total/NA	Solid	8015NM Prep	
880-24624-8	C-46 5.5	Total/NA	Solid	8015NM Prep	
880-24624-9	C-61 5.5	Total/NA	Solid	8015NM Prep	
880-24624-10	SW-19a 0-3'	Total/NA	Solid	8015NM Prep	
880-24624-11	SW-19b 0-3'	Total/NA	Solid	8015NM Prep	
880-24624-12	SW-21a 0-3'	Total/NA	Solid	8015NM Prep	
880-24624-13	SW-21b 0-3'	Total/NA	Solid	8015NM Prep	
MB 880-46409/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46409/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24624-7 MS	C-44 5.5	Total/NA	Solid	8015NM Prep	
880-24624-7 MSD	C-44 5.5	Total/NA	Solid	8015NM Prep	

Prep Batch: 46410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-2	C-31 4.5	Total/NA	Solid	8015NM Prep	
880-24624-3	C-35 4.5	Total/NA	Solid	8015NM Prep	
MB 880-46410/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46410/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46410/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24624-2 MS	C-31 4.5	Total/NA	Solid	8015NM Prep	
880-24624-2 MSD	C-31 4.5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-1	C-27 4.5	Total/NA	Solid	8015 NM	
880-24624-2	C-31 4.5	Total/NA	Solid	8015 NM	
880-24624-3	C-35 4.5	Total/NA	Solid	8015 NM	
880-24624-4	C-43 4.5	Total/NA	Solid	8015 NM	
880-24624-5	SW-24a 0-4.5	Total/NA	Solid	8015 NM	
880-24624-6	SW-24b 0-4.5	Total/NA	Solid	8015 NM	
880-24624-7	C-44 5.5	Total/NA	Solid	8015 NM	
880-24624-8	C-46 5.5	Total/NA	Solid	8015 NM	
880-24624-9	C-61 5.5	Total/NA	Solid	8015 NM	
880-24624-10	SW-19a 0-3'	Total/NA	Solid	8015 NM	
880-24624-11	SW-19b 0-3'	Total/NA	Solid	8015 NM	
880-24624-12	SW-21a 0-3'	Total/NA	Solid	8015 NM	
880-24624-13	SW-21b 0-3'	Total/NA	Solid	8015 NM	

Analysis Batch: 46479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-7	C-44 5.5	Total/NA	Solid	8015B NM	46409
880-24624-8	C-46 5.5	Total/NA	Solid	8015B NM	46409
880-24624-9	C-61 5.5	Total/NA	Solid	8015B NM	46409
880-24624-10	SW-19a 0-3'	Total/NA	Solid	8015B NM	46409

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-24624-1
Project/Site: Boo Radley SDG: 21-0105-08

GC Semi VOA (Continued)

Analysis Batch: 46479 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-11	SW-19b 0-3'	Total/NA	Solid	8015B NM	46409
880-24624-12	SW-21a 0-3'	Total/NA	Solid	8015B NM	46409
880-24624-13	SW-21b 0-3'	Total/NA	Solid	8015B NM	46409
MB 880-46409/1-A	Method Blank	Total/NA	Solid	8015B NM	46409
LCS 880-46409/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46409
LCSD 880-46409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46409
880-24624-7 MS	C-44 5.5	Total/NA	Solid	8015B NM	46409
880-24624-7 MSD	C-44 5.5	Total/NA	Solid	8015B NM	46409

HPLC/IC

Leach Batch: 46112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-13	SW-21b 0-3'	Soluble	Solid	DI Leach	
MB 880-46112/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46112/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46112/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 46189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-13	SW-21b 0-3'	Soluble	Solid	300.0	46112
MB 880-46112/1-A	Method Blank	Soluble	Solid	300.0	46112
LCS 880-46112/2-A	Lab Control Sample	Soluble	Solid	300.0	46112
LCSD 880-46112/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46112

Leach Batch: 46277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-1	C-27 4.5	Soluble	Solid	DI Leach	
880-24624-2	C-31 4.5	Soluble	Solid	DI Leach	
880-24624-3	C-35 4.5	Soluble	Solid	DI Leach	
880-24624-4	C-43 4.5	Soluble	Solid	DI Leach	
880-24624-5	SW-24a 0-4.5	Soluble	Solid	DI Leach	
880-24624-6	SW-24b 0-4.5	Soluble	Solid	DI Leach	
880-24624-7	C-44 5.5	Soluble	Solid	DI Leach	
880-24624-8	C-46 5.5	Soluble	Solid	DI Leach	
880-24624-9	C-61 5.5	Soluble	Solid	DI Leach	
880-24624-10	SW-19a 0-3'	Soluble	Solid	DI Leach	
880-24624-11	SW-19b 0-3'	Soluble	Solid	DI Leach	
880-24624-12	SW-21a 0-3'	Soluble	Solid	DI Leach	
MB 880-46277/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46277/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46277/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24624-3 MS	C-35 4.5	Soluble	Solid	DI Leach	
880-24624-3 MSD	C-35 4.5	Soluble	Solid	DI Leach	

Analysis Batch: 46329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-1	C-27 4.5	Soluble	Solid	300.0	46277
880-24624-2	C-31 4.5	Soluble	Solid	300.0	46277
880-24624-3	C-35 4.5	Soluble	Solid	300.0	46277
880-24624-4	C-43 4.5	Soluble	Solid	300.0	46277

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

HPLC/IC (Continued)

Analysis Batch: 46329 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24624-5	SW-24a 0-4.5	Soluble	Solid	300.0	46277
880-24624-6	SW-24b 0-4.5	Soluble	Solid	300.0	46277
880-24624-7	C-44 5.5	Soluble	Solid	300.0	46277
880-24624-8	C-46 5.5	Soluble	Solid	300.0	46277
880-24624-9	C-61 5.5	Soluble	Solid	300.0	46277
880-24624-10	SW-19a 0-3'	Soluble	Solid	300.0	46277
880-24624-11	SW-19b 0-3'	Soluble	Solid	300.0	46277
880-24624-12	SW-21a 0-3'	Soluble	Solid	300.0	46277
MB 880-46277/1-A	Method Blank	Soluble	Solid	300.0	46277
LCS 880-46277/2-A	Lab Control Sample	Soluble	Solid	300.0	46277
LCSD 880-46277/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46277
880-24624-3 MS	C-35 4.5	Soluble	Solid	300.0	46277
880-24624-3 MSD	C-35 4.5	Soluble	Solid	300.0	46277

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

Client Sample ID: C-27 4.5

Lab Sample ID: 880-24624-1
Matrix: Solid
Date Collected: 02/08/23 13:10
Date Received: 02/13/23 09:21

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	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 00:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46502	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46439	02/15/23 15:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46370	02/15/23 08:44	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46351	02/15/23 10:49	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46277	02/14/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1			46329	02/14/23 23:46	CH	EET MID

Client Sample ID: C-31 4.5

Lab Sample ID: 880-24624-2
Matrix: Solid
Date Collected: 02/08/23 13:12
Date Received: 02/13/23 09:21

Prep 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	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 01:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46502	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46439	02/16/23 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46410	02/15/23 12:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46349	02/15/23 21:04	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46277	02/14/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1			46329	02/14/23 23:51	CH	EET MID

Client Sample ID: C-35 4.5

Lab Sample ID: 880-24624-3
Matrix: Solid
Date Collected: 02/08/23 13:14
Date Received: 02/13/23 09:21

Prep 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	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 01:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46502	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46439	02/16/23 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46410	02/15/23 12:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46349	02/15/23 22:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46277	02/14/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1			46329	02/14/23 23:56	CH	EET MID

Client Sample ID: C-43 4.5

Lab Sample ID: 880-24624-4
Matrix: Solid
Date Collected: 02/08/23 13:16
Date Received: 02/13/23 09:21

Prep 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	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 01:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46502	02/16/23 09:32	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

Client Sample ID: C-43 4.5

Lab Sample ID: 880-24624-4
Matrix: Solid
Date Collected: 02/08/23 13:16
Date Received: 02/13/23 09:21

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			46439	02/16/23 11:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46316	02/14/23 12:14	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46351	02/16/23 02:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46277	02/14/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1			46329	02/15/23 00:10	CH	EET MID

Client Sample ID: SW-24a 0-4.5

Lab Sample ID: 880-24624-5
Matrix: Solid
Date Collected: 02/08/23 14:00
Date Received: 02/13/23 09:21

Prep 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	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 02:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46502	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46439	02/16/23 11:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46316	02/14/23 12:14	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46351	02/16/23 02:51	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46277	02/14/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1			46329	02/15/23 00:14	CH	EET MID

Client Sample ID: SW-24b 0-4.5

Lab Sample ID: 880-24624-6
Matrix: Solid
Date Collected: 02/08/23 14:02
Date Received: 02/13/23 09:21

Prep 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	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 02:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46502	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46439	02/16/23 11:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46316	02/14/23 12:14	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46351	02/16/23 03:12	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46277	02/14/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1			46329	02/15/23 00:29	CH	EET MID

Client Sample ID: C-44 5.5

Lab Sample ID: 880-24624-7
Matrix: Solid
Date Collected: 02/09/23 09:10
Date Received: 02/13/23 09:21

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	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 02:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46502	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46439	02/19/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46409	02/15/23 11:56	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46479	02/16/23 20:55	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

Client Sample ID: C-44 5.5

Date Collected: 02/09/23 09:10
Date Received: 02/13/23 09:21

Lab Sample ID: 880-24624-7

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			5.05 g	50 mL	46277	02/14/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1			46329	02/15/23 00:33	CH	EET MID

Client Sample ID: C-46 5.5

Date Collected: 02/09/23 09:12
Date Received: 02/13/23 09:21

Lab Sample ID: 880-24624-8

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			5.02 g	5 mL	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 03:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46502	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46439	02/19/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46409	02/15/23 11:56	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46479	02/16/23 22:01	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46277	02/14/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1			46329	02/15/23 00:38	CH	EET MID

Client Sample ID: C-61 5.5

Date Collected: 02/09/23 09:30
Date Received: 02/13/23 09:21

Lab Sample ID: 880-24624-9

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			5.03 g	5 mL	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 03:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46502	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46439	02/19/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46409	02/15/23 11:56	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46479	02/16/23 22:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46277	02/14/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1			46329	02/15/23 00:43	CH	EET MID

Client Sample ID: SW-19a 0-3'

Date Collected: 02/09/23 12:25
Date Received: 02/13/23 09:21

Lab Sample ID: 880-24624-10

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			5.02 g	5 mL	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 03:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46502	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46439	02/19/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46409	02/15/23 11:56	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46479	02/16/23 22:45	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46277	02/14/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1			46329	02/15/23 00:47	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

Client Sample ID: SW-19b 0-3'

Lab Sample ID: 880-24624-11
Matrix: Solid
Date Collected: 02/09/23 12:27
Date Received: 02/13/23 09:21

Prep 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	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 05:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46502	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46439	02/19/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46409	02/15/23 11:56	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46479	02/16/23 23:07	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46277	02/14/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1			46329	02/15/23 00:52	CH	EET MID

Client Sample ID: SW-21a 0-3'

Lab Sample ID: 880-24624-12
Matrix: Solid
Date Collected: 02/09/23 12:28
Date Received: 02/13/23 09:21

Prep 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	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 06:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46502	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46439	02/19/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46409	02/15/23 11:56	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46479	02/16/23 23:30	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46277	02/14/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1			46329	02/15/23 00:57	CH	EET MID

Client Sample ID: SW-21b 0-3'

Lab Sample ID: 880-24624-13
Matrix: Solid
Date Collected: 02/09/23 12:30
Date Received: 02/13/23 09:21

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	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 06:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46502	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46439	02/19/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46409	02/15/23 11:56	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46479	02/16/23 23:52	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46112	02/13/23 14:00	KS	EET MID
Soluble	Analysis	300.0		1			46189	02/13/23 17:11	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: 880-24624-1
Project/Site: Boo Radley SDG: 21-0105-08

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: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 880-24624-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-24624-1	C-27 4.5	Solid	02/08/23 13:10	02/13/23 09:21
880-24624-2	C-31 4.5	Solid	02/08/23 13:12	02/13/23 09:21
880-24624-3	C-35 4.5	Solid	02/08/23 13:14	02/13/23 09:21
880-24624-4	C-43 4.5	Solid	02/08/23 13:16	02/13/23 09:21
880-24624-5	SW-24a 0-4.5	Solid	02/08/23 14:00	02/13/23 09:21
880-24624-6	SW-24b 0-4.5	Solid	02/08/23 14:02	02/13/23 09:21
880-24624-7	C-44 5.5	Solid	02/09/23 09:10	02/13/23 09:21
880-24624-8	C-46 5.5	Solid	02/09/23 09:12	02/13/23 09:21
880-24624-9	C-61 5.5	Solid	02/09/23 09:30	02/13/23 09:21
880-24624-10	SW-19a 0-3'	Solid	02/09/23 12:25	02/13/23 09:21
880-24624-11	SW-19b 0-3'	Solid	02/09/23 12:27	02/13/23 09:21
880-24624-12	SW-21a 0-3'	Solid	02/09/23 12:28	02/13/23 09:21
880-24624-13	SW-21b 0-3'	Solid	02/09/23 12:30	02/13/23 09:21

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24624 No. 2799

CHAIN-OF-CUSTODY

2/20/2023

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

DATE 2/10/23 PAGE 1 OF ___

PO#. ___ LAB WORK ORDER# ___

PROJECT LOCATION OR NAME. BOO RADLEY

LAI PROJECT # 21-0105-08 COLLECTOR BSG

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MNT / 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 ☐	RCI ☐	TOX ☐	TCLP ☐	TDS ☐	TSS ☐	FLASHPOINT ☐	pH ☐	% MOISTURE ☐	EXPLOSIVES ☐	HEXAVALENT CHROMIUM ☐	CHLORIDE ☒	CYANIDE ☐	ANIONS ☐	PECHLORATE ☐	ALKALINITY ☐	FIELD NOTES
C-27 4.5		2/8/23	1310	S	1				X		X		X	X	X																										X					207
C-31 4.5		2/8/23	1312	S	1				X		X		X	X	X																										X					
C-35 4.5		2/8/23	1314	S	1				X		X		X	X	X																										X					
C-43 4.5		2/8/23	1316	S	1				X		X		X	X	X																										X					
SW-24a 0-4.5		2/8/23	1400	S	1				X		X		X	X	X																										X					
SW-24b 0-4.5		2/8/23	1402	S	1				X		X		X	X	X																										X					
C-44 5.5		2/9/23	0910	S	1				X		X		X	X	X																										X					
C-46 5.5		2/9/23	0912	S	1				X		X		X	X	X																										X					
C-61 5.5		2/9/23	0930	S	1				X		X		X	X	X																										X					
SW-19a 0-3'		2/9/23	1225	S	1				X		X		X	X	X																										X					
SW-19b 0-3'		2/9/23	1227	S	1				X		X		X	X	X																										X					
SW-21a 0-3'		2/9/23	1228	S	1				X		X		X	X	X																										X					
SW 21b 0-3'		2/9/23	1230	S	1				X		X		X	X	X																										X					

TOTAL 13

880-24624 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	2/10 0:21	[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 0.4/0.1 THERM# IR# 136
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # ___
☑ HAND DELIVERED

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Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-24624-1
SDG Number: 21-0105-08

Login Number: 24624
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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 2/23/2023 3:48:26 PM

JOB DESCRIPTION

BOO RADLEY
SDG NUMBER 21-0105-08

JOB NUMBER

890-4114-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 AM

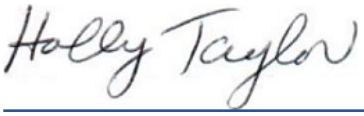
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Job Notes

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



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

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Laboratory Job ID: 890-4114-1
SDG: 21-0105-08

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2/23/2023

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-4114-1
Project/Site: BOO RADLEY SDG: 21-0105-08

Qualifiers

GC VOA

Qualifier	Qualifier Description
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: BOO RADLEY

Job ID: 890-4114-1
SDG: 21-0105-08

Job ID: 890-4114-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4114-1

Receipt
The samples were received on 2/15/2023 4:03 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 1.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-14 0-10 (890-4114-1), SW-16 0-10 (890-4114-2) and SW-17 0-10 (890-4114-3).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-14 0-10 (890-4114-1), SW-16 0-10 (890-4114-2), SW-17 0-10 (890-4114-3), (LCS 880-46606/1-A), (LCSD 880-46606/2-A), (880-24215-A-5-A MB), (880-24215-A-6-A MDLV), (880-24755-A-11-E), (880-24755-A-11-C MS) and (880-24755-A-11-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 sample was outside control limits: (MB 880-46703/1-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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-4114-1
SDG: 21-0105-08

Client Sample ID: SW-14 0-10

Date Collected: 02/15/23 10:14
Date Received: 02/15/23 16:03
Sample Depth: 0 - 10

Lab Sample ID: 890-4114-1
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		02/17/23 14:40	02/18/23 08:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/17/23 14:40	02/18/23 08:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/17/23 14:40	02/18/23 08:27	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/17/23 14:40	02/18/23 08:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/17/23 14:40	02/18/23 08:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/17/23 14:40	02/18/23 08:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*02/17/23 14:40*	*02/18/23 08:27*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/17/23 14:40*	*02/18/23 08:27*	*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			02/20/23 14:09	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			02/21/23 15:53	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		02/20/23 10:33	02/20/23 20:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/20/23 10:33	02/20/23 20:27	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/20/23 10:33	02/20/23 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*02/20/23 10:33*	*02/20/23 20:27*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*02/20/23 10:33*	*02/20/23 20:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**242**		24.9		mg/Kg			02/20/23 10:56	5

Client Sample ID: SW-16 0-10

Date Collected: 02/15/23 10:18
Date Received: 02/15/23 16:03
Sample Depth: 0 - 10

Lab Sample ID: 890-4114-2
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		02/17/23 14:40	02/18/23 08:48	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/17/23 14:40	02/18/23 08:48	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/17/23 14:40	02/18/23 08:48	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		02/17/23 14:40	02/18/23 08:48	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/17/23 14:40	02/18/23 08:48	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/17/23 14:40	02/18/23 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*02/17/23 14:40*	*02/18/23 08:48*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-4114-1
SDG: 21-0105-08

Client Sample ID: SW-16 0-10

Lab Sample ID: 890-4114-2
Matrix: Solid
Date Collected: 02/15/23 10:18
Date Received: 02/15/23 16:03
Sample Depth: 0 - 10

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/17/23 14:40*	*02/18/23 08:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			02/20/23 14:09	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			02/20/23 15:20	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		02/17/23 10:54	02/18/23 14:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/17/23 10:54	02/18/23 14:49	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/17/23 10:54	02/18/23 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*02/17/23 10:54*	*02/18/23 14:49*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*02/17/23 10:54*	*02/18/23 14:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**239**		4.95	mg/Kg			02/20/23 11:01	1

Client Sample ID: SW-17 0-10

Lab Sample ID: 890-4114-3
Matrix: Solid
Date Collected: 02/15/23 10:20
Date Received: 02/15/23 16:03
Sample Depth: 0 - 10

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		02/17/23 14:40	02/18/23 09:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/17/23 14:40	02/18/23 09:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/17/23 14:40	02/18/23 09:08	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		02/17/23 14:40	02/18/23 09:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/17/23 14:40	02/18/23 09:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/17/23 14:40	02/18/23 09:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*02/17/23 14:40*	*02/18/23 09:08*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/17/23 14:40*	*02/18/23 09:08*	*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			02/20/23 14:09	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			02/20/23 15:20	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-4114-1
SDG: 21-0105-08

Client Sample ID: SW-17 0-10

Date Collected: 02/15/23 10:20
Date Received: 02/15/23 16:03
Sample Depth: 0 - 10

Lab Sample ID: 890-4114-3

Matrix: Solid

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		02/17/23 10:54	02/18/23 15:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/17/23 10:54	02/18/23 15:11	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/17/23 10:54	02/18/23 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*02/17/23 10:54*	*02/18/23 15:11*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*02/17/23 10:54*	*02/18/23 15:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**358**		5.00		mg/Kg			02/20/23 11:06	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-4114-1
SDG: 21-0105-08

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)										
890-4114-1	SW-14 0-10	147 S1+	108										
890-4114-2	SW-16 0-10	148 S1+	106										
890-4114-3	SW-17 0-10	145 S1+	104										
LCS 880-46606/1-A	Lab Control Sample	131 S1+	105										
LCSD 880-46606/2-A	Lab Control Sample Dup	131 S1+	102										
MB 880-46606/5-A	Method Blank	127	100										

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)										
890-4114-1	SW-14 0-10	93	100										
890-4114-2	SW-16 0-10	107	114										
890-4114-3	SW-17 0-10	106	116										
LCS 880-46595/2-A	Lab Control Sample	108	118										
LCS 880-46703/2-A	Lab Control Sample	102	110										
LCSD 880-46595/3-A	Lab Control Sample Dup	106	117										
LCSD 880-46703/3-A	Lab Control Sample Dup	118	126										
MB 880-46595/1-A	Method Blank	97	118										
MB 880-46703/1-A	Method Blank	132 S1+	148 S1+										

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-4114-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46606/5-A
Matrix: Solid
Analysis Batch: 46567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46606

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/17/23 14:40	02/18/23 01:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/17/23 14:40	02/18/23 01:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/17/23 14:40	02/18/23 01:43	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/17/23 14:40	02/18/23 01:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/17/23 14:40	02/18/23 01:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/17/23 14:40	02/18/23 01:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*02/17/23 14:40*	*02/18/23 01:43*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/17/23 14:40*	*02/18/23 01:43*	*1*

Lab Sample ID: LCS 880-46606/1-A
Matrix: Solid
Analysis Batch: 46567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46606

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1185		mg/Kg		118	70 - 130		
Toluene			0.100	0.1111		mg/Kg		111	70 - 130		
Ethylbenzene			0.100	0.1141		mg/Kg		114	70 - 130		
m,p-Xylenes			0.200	0.2420		mg/Kg		121	70 - 130		
o-Xylene			0.100	0.1184		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-46606/2-A
Matrix: Solid
Analysis Batch: 46567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46606

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1254		mg/Kg		125	70 - 130	6	35
Toluene			0.100	0.1195		mg/Kg		120	70 - 130	7	35
Ethylbenzene			0.100	0.1190		mg/Kg		119	70 - 130	4	35
m,p-Xylenes			0.200	0.2526		mg/Kg		126	70 - 130	4	35
o-Xylene			0.100	0.1229		mg/Kg		123	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-4114-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-46595/1-A
Matrix: Solid
Analysis Batch: 46617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46595

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/17/23 10:54	02/18/23 08:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/17/23 10:54	02/18/23 08:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/17/23 10:54	02/18/23 08:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*02/17/23 10:54*	*02/18/23 08:39*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*02/17/23 10:54*	*02/18/23 08:39*	*1*

Lab Sample ID: LCS 880-46595/2-A
Matrix: Solid
Analysis Batch: 46617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46595

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	907.8		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	937.0		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*108*		*70 - 130*
o-Terphenyl (Surr)	*118*		*70 - 130*

Lab Sample ID: LCSD 880-46595/3-A
Matrix: Solid
Analysis Batch: 46617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46595

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	935.8		mg/Kg		94	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	921.9		mg/Kg		92	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*106*		*70 - 130*
o-Terphenyl (Surr)	*117*		*70 - 130*

Lab Sample ID: MB 880-46703/1-A
Matrix: Solid
Analysis Batch: 46679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46703

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 08:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 08:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/23 10:33	02/20/23 08:34	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-4114-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-46703/1-A
Matrix: Solid
Analysis Batch: 46679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46703

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	132	S1+	70 - 130	02/20/23 10:33	02/20/23 08:34	1
o-Terphenyl (Surr)	148	S1+	70 - 130	02/20/23 10:33	02/20/23 08:34	1

Lab Sample ID: LCS 880-46703/2-A
Matrix: Solid
Analysis Batch: 46679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	912.2		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	818.3		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-46703/3-A
Matrix: Solid
Analysis Batch: 46679

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	851.5		mg/Kg		85	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	928.4		mg/Kg		93	70 - 130	13	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	118		70 - 130
o-Terphenyl (Surr)	126		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46508/1-A
Matrix: Solid
Analysis Batch: 46697

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/20/23 08:28	1

Lab Sample ID: LCS 880-46508/2-A
Matrix: Solid
Analysis Batch: 46697

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.8		mg/Kg		96	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-4114-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-46508/3-A
Matrix: Solid
Analysis Batch: 46697

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	235.1		mg/Kg		94	90 - 110	2	20

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 890-4114-1
Project/Site: BOO RADLEY SDG: 21-0105-08

GC VOA

Analysis Batch: 46567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4114-1	SW-14 0-10	Total/NA	Solid	8021B	46606
890-4114-2	SW-16 0-10	Total/NA	Solid	8021B	46606
890-4114-3	SW-17 0-10	Total/NA	Solid	8021B	46606
MB 880-46606/5-A	Method Blank	Total/NA	Solid	8021B	46606
LCS 880-46606/1-A	Lab Control Sample	Total/NA	Solid	8021B	46606
LCSD 880-46606/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46606

Prep Batch: 46606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4114-1	SW-14 0-10	Total/NA	Solid	5035	
890-4114-2	SW-16 0-10	Total/NA	Solid	5035	
890-4114-3	SW-17 0-10	Total/NA	Solid	5035	
MB 880-46606/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46606/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46606/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 46740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4114-1	SW-14 0-10	Total/NA	Solid	Total BTEX	
890-4114-2	SW-16 0-10	Total/NA	Solid	Total BTEX	
890-4114-3	SW-17 0-10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 46595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4114-2	SW-16 0-10	Total/NA	Solid	8015NM Prep	
890-4114-3	SW-17 0-10	Total/NA	Solid	8015NM Prep	
MB 880-46595/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46595/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46595/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4114-2	SW-16 0-10	Total/NA	Solid	8015B NM	46595
890-4114-3	SW-17 0-10	Total/NA	Solid	8015B NM	46595
MB 880-46595/1-A	Method Blank	Total/NA	Solid	8015B NM	46595
LCS 880-46595/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46595
LCSD 880-46595/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46595

Analysis Batch: 46679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4114-1	SW-14 0-10	Total/NA	Solid	8015B NM	46703
MB 880-46703/1-A	Method Blank	Total/NA	Solid	8015B NM	46703
LCS 880-46703/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46703
LCSD 880-46703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46703

Prep Batch: 46703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4114-1	SW-14 0-10	Total/NA	Solid	8015NM Prep	
MB 880-46703/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-4114-1
SDG: 21-0105-08

GC Semi VOA (Continued)

Prep Batch: 46703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-46703/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4114-1	SW-14 0-10	Total/NA	Solid	8015 NM	
890-4114-2	SW-16 0-10	Total/NA	Solid	8015 NM	
890-4114-3	SW-17 0-10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4114-1	SW-14 0-10	Soluble	Solid	DI Leach	
890-4114-2	SW-16 0-10	Soluble	Solid	DI Leach	
890-4114-3	SW-17 0-10	Soluble	Solid	DI Leach	
MB 880-46508/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46508/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46508/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 46697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4114-1	SW-14 0-10	Soluble	Solid	300.0	46508
890-4114-2	SW-16 0-10	Soluble	Solid	300.0	46508
890-4114-3	SW-17 0-10	Soluble	Solid	300.0	46508
MB 880-46508/1-A	Method Blank	Soluble	Solid	300.0	46508
LCS 880-46508/2-A	Lab Control Sample	Soluble	Solid	300.0	46508
LCSD 880-46508/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46508

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: BOO RADLEY

Job ID: 890-4114-1
SDG: 21-0105-08

Client Sample ID: SW-14 0-10

Date Collected: 02/15/23 10:14
Date Received: 02/15/23 16:03

Lab Sample ID: 890-4114-1

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	46606	02/17/23 14:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/18/23 08:27	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46740	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46794	02/21/23 15:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46703	02/20/23 10:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46679	02/20/23 20:27	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46508	02/17/23 16:00	KS	EET MID
Soluble	Analysis	300.0		5			46697	02/20/23 10:56	CH	EET MID

Client Sample ID: SW-16 0-10

Date Collected: 02/15/23 10:18
Date Received: 02/15/23 16:03

Lab Sample ID: 890-4114-2

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			5.04 g	5 mL	46606	02/17/23 14:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/18/23 08:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46740	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46794	02/20/23 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46595	02/17/23 10:54	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46617	02/18/23 14:49	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46508	02/17/23 16:00	KS	EET MID
Soluble	Analysis	300.0		1			46697	02/20/23 11:01	CH	EET MID

Client Sample ID: SW-17 0-10

Date Collected: 02/15/23 10:20
Date Received: 02/15/23 16:03

Lab Sample ID: 890-4114-3

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	46606	02/17/23 14:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/18/23 09:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46740	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46794	02/20/23 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46595	02/17/23 10:54	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46617	02/18/23 15:11	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46508	02/17/23 16:00	KS	EET MID
Soluble	Analysis	300.0		1			46697	02/20/23 11:06	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.
Project/Site: BOO RADLEY

Job ID: 890-4114-1
SDG: 21-0105-08

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: 890-4114-1
Project/Site: BOO RADLEY SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: BOO RADLEY

Job ID: 890-4114-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4114-1	SW-14 0-10	Solid	02/15/23 10:14	02/15/23 16:03	0 - 10
890-4114-2	SW-16 0-10	Solid	02/15/23 10:18	02/15/23 16:03	0 - 10
890-4114-3	SW-17 0-10	Solid	02/15/23 10:20	02/15/23 16:03	0 - 10

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No. 2800

CHAIN-OF-CUSTODY

2/23/2023

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

DATE: 2/15/2023 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Boo Radley

LAI PROJECT #: 21-0105-08 COLLECTOR: DSG

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 ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☑ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
SW-14 0-10		2/15/23	1014	S	1				X		X		X	X	X													X		1_NM_007
SW-16 0-10		2/15/23	1018	S	1				X		X		X	X	X													X		-0.2
SW-17 0-10		2/15/23	1020	S	1				X		X		X	X	X													X		2.0/1.8

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-4114-1
SDG Number: 21-0105-08

Login Number: 4114
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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?	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.	N/A	Refer to Job Narrative for details.
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: 890-4114-1
SDG Number: 21-0105-08

Login Number: 4114
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 02/17/23 11:14 AM

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 2/23/2023 11:48:35 AM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

890-4116-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 AM

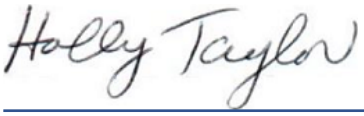
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Eurofins Carlsbad

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
2/23/2023 11:48:35 AM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 890-4116-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-4116-1
Project/Site: Boo Radley SDG: 21-0105-08

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: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

Job ID: 890-4116-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4116-1

Receipt
The samples were received on 2/16/2023 3:22 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 1.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-12 0-10 (890-4116-1), SW-13 0-10 (890-4116-2), SW-20a 0-3 (890-4116-3), SW-20b 0-3 (890-4116-4), SW-22a 0-4 (890-4116-5), SW-22b 0-4 (890-4116-6) and SW-22c 0-4 (890-4116-7).

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: Surrogate recovery for the following sample was outside control limits: (MB 880-46824/1-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
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: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

Client Sample ID: SW-12 0-10

Lab Sample ID: 890-4116-1
Matrix: Solid
Date Collected: 02/16/23 09:36
Date Received: 02/16/23 15:22

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		02/22/23 09:16	02/23/23 04:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 04:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 04:14	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/22/23 09:16	02/23/23 04:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 04:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/22/23 09:16	02/23/23 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*02/22/23 09:16*	*02/23/23 04:14*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*02/22/23 09:16*	*02/23/23 04:14*	*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			02/23/23 12:18	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			02/22/23 16:26	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		02/21/23 11:45	02/21/23 17:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 11:45	02/21/23 17:00	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 11:45	02/21/23 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*02/21/23 11:45*	*02/21/23 17:00*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*02/21/23 11:45*	*02/21/23 17:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**132**		5.02		mg/Kg			02/21/23 15:35	1

Client Sample ID: SW-13 0-10

Lab Sample ID: 890-4116-2
Matrix: Solid
Date Collected: 02/16/23 09:38
Date Received: 02/16/23 15:22

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		02/22/23 09:16	02/23/23 04:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 04:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 04:35	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		02/22/23 09:16	02/23/23 04:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 04:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/22/23 09:16	02/23/23 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/22/23 09:16*	*02/23/23 04:35*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/22/23 09:16*	*02/23/23 04:35*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

Client Sample ID: SW-13 0-10

Date Collected: 02/16/23 09:38
Date Received: 02/16/23 15:22

Lab Sample ID: 890-4116-2
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			02/23/23 12:18	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			02/22/23 16:26	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		02/21/23 11:45	02/21/23 17:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/21/23 11:45	02/21/23 17:22	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/21/23 11:45	02/21/23 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*02/21/23 11:45*	*02/21/23 17:22*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*02/21/23 11:45*	*02/21/23 17:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		4.98		mg/Kg			02/21/23 15:54	1

Client Sample ID: SW-20a 0-3

Date Collected: 02/16/23 12:08
Date Received: 02/16/23 15:22

Lab Sample ID: 890-4116-3
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		02/22/23 09:16	02/23/23 04:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/22/23 09:16	02/23/23 04:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/22/23 09:16	02/23/23 04:56	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		02/22/23 09:16	02/23/23 04:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/22/23 09:16	02/23/23 04:56	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/22/23 09:16	02/23/23 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*02/22/23 09:16*	*02/23/23 04:56*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*02/22/23 09:16*	*02/23/23 04:56*	*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			02/23/23 12:18	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			02/22/23 16:26	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		02/21/23 11:45	02/21/23 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 11:45	02/21/23 17:44	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4116-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: SW-20a 0-3 Lab Sample ID: 890-4116-3

Date Collected: 02/16/23 12:08 **Matrix: Solid**
Date Received: 02/16/23 15:22

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		02/21/23 11:45	02/21/23 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*02/21/23 11:45*	*02/21/23 17:44*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*02/21/23 11:45*	*02/21/23 17:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.4**		5.00		mg/Kg			02/21/23 16:00	1

Client Sample ID: SW-20b 0-3 Lab Sample ID: 890-4116-4

Date Collected: 02/16/23 12:10 **Matrix: Solid**
Date Received: 02/16/23 15:22

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		02/22/23 09:16	02/23/23 05:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/22/23 09:16	02/23/23 05:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/22/23 09:16	02/23/23 05:16	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		02/22/23 09:16	02/23/23 05:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/22/23 09:16	02/23/23 05:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/22/23 09:16	02/23/23 05:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*02/22/23 09:16*	*02/23/23 05:16*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*02/22/23 09:16*	*02/23/23 05:16*	*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			02/23/23 12:18	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			02/22/23 16:26	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		02/21/23 11:45	02/21/23 18:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 11:45	02/21/23 18:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 11:45	02/21/23 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*02/21/23 11:45*	*02/21/23 18:06*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*02/21/23 11:45*	*02/21/23 18:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.5**		4.95		mg/Kg			02/21/23 16:06	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

Client Sample ID: SW-22a 0-4

Lab Sample ID: 890-4116-5
Matrix: Solid
Date Collected: 02/16/23 12:20
Date Received: 02/16/23 15:22

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		02/22/23 09:16	02/23/23 05:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/22/23 09:16	02/23/23 05:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/22/23 09:16	02/23/23 05:37	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		02/22/23 09:16	02/23/23 05:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/22/23 09:16	02/23/23 05:37	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/22/23 09:16	02/23/23 05:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*02/22/23 09:16*	*02/23/23 05:37*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/22/23 09:16*	*02/23/23 05:37*	*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			02/23/23 12:18	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			02/22/23 16:26	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		02/21/23 11:45	02/21/23 18:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/21/23 11:45	02/21/23 18:27	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/21/23 11:45	02/21/23 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*02/21/23 11:45*	*02/21/23 18:27*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*02/21/23 11:45*	*02/21/23 18:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**269**		5.01		mg/Kg			02/21/23 16:12	1

Client Sample ID: SW-22b 0-4

Lab Sample ID: 890-4116-6
Matrix: Solid
Date Collected: 02/16/23 12:22
Date Received: 02/16/23 15:22

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		02/22/23 09:16	02/23/23 05:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 05:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 05:58	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		02/22/23 09:16	02/23/23 05:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 05:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/22/23 09:16	02/23/23 05:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*02/22/23 09:16*	*02/23/23 05:58*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*02/22/23 09:16*	*02/23/23 05:58*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

Client Sample ID: SW-22b 0-4

Date Collected: 02/16/23 12:22
Date Received: 02/16/23 15:22

Lab Sample ID: 890-4116-6

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			02/23/23 12:18	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			02/22/23 16:26	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		02/21/23 11:45	02/21/23 18:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 11:45	02/21/23 18:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 11:45	02/21/23 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*02/21/23 11:45*	*02/21/23 18:49*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*02/21/23 11:45*	*02/21/23 18:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**275**		5.01		mg/Kg			02/21/23 16:31	1

Client Sample ID: SW-22c 0-4

Date Collected: 02/16/23 12:24
Date Received: 02/16/23 15:22

Lab Sample ID: 890-4116-7

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		02/22/23 09:16	02/23/23 06:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 06:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 06:18	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		02/22/23 09:16	02/23/23 06:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 06:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/22/23 09:16	02/23/23 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*02/22/23 09:16*	*02/23/23 06:18*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*02/22/23 09:16*	*02/23/23 06:18*	*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			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**891**		49.9		mg/Kg			02/22/23 16:26	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	**410**		49.9		mg/Kg		02/21/23 11:45	02/21/23 19:33	1
Diesel Range Organics (Over C10-C28)	**481**		49.9		mg/Kg		02/21/23 11:45	02/21/23 19:33	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

Client Sample ID: SW-22c 0-4
Date Collected: 02/16/23 12:24
Date Received: 02/16/23 15:22

Lab Sample ID: 890-4116-7
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)	<49.9	U	49.9		mg/Kg		02/21/23 11:45	02/21/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*02/21/23 11:45*	*02/21/23 19:33*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*02/21/23 11:45*	*02/21/23 19:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**225**		4.97		mg/Kg			02/21/23 16:37	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

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)
890-4116-1	SW-12 0-10	116	110
890-4116-2	SW-13 0-10	114	109
890-4116-3	SW-20a 0-3	121	116
890-4116-4	SW-20b 0-3	122	115
890-4116-5	SW-22a 0-4	116	111
890-4116-6	SW-22b 0-4	118	120
890-4116-7	SW-22c 0-4	113	118
LCS 880-46929/1-A	Lab Control Sample	92	107
LCSD 880-46929/2-A	Lab Control Sample Dup	103	110
MB 880-46868/5-A	Method Blank	82	104
MB 880-46929/5-A	Method Blank	85	99

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)
890-4116-1	SW-12 0-10	108	111
890-4116-2	SW-13 0-10	98	105
890-4116-3	SW-20a 0-3	115	123
890-4116-4	SW-20b 0-3	117	123
890-4116-5	SW-22a 0-4	99	108
890-4116-6	SW-22b 0-4	95	103
890-4116-7	SW-22c 0-4	98	115
LCS 880-46824/2-A	Lab Control Sample	83	90
LCSD 880-46824/3-A	Lab Control Sample Dup	82	91
MB 880-46824/1-A	Method Blank	137 S1+	156 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46868/5-A
Matrix: Solid
Analysis Batch: 46928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46868

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 11:49	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/21/23 14:34	02/22/23 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/23 14:34	02/22/23 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*02/21/23 14:34*	*02/22/23 11:49*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/21/23 14:34*	*02/22/23 11:49*	*1*

Lab Sample ID: MB 880-46929/5-A
Matrix: Solid
Analysis Batch: 46928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46929

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 02:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 02:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 02:51	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/22/23 09:16	02/23/23 02:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:16	02/23/23 02:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/22/23 09:16	02/23/23 02:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*02/22/23 09:16*	*02/23/23 02:51*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/22/23 09:16*	*02/23/23 02:51*	*1*

Lab Sample ID: LCS 880-46929/1-A
Matrix: Solid
Analysis Batch: 46928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46929

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1023		mg/Kg		102	70 - 130		
Toluene			0.100	0.1011		mg/Kg		101	70 - 130		
Ethylbenzene			0.100	0.09373		mg/Kg		94	70 - 130		
m,p-Xylenes			0.200	0.1915		mg/Kg		96	70 - 130		
o-Xylene			0.100	0.09836		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-46929/2-A
Matrix: Solid
Analysis Batch: 46928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46929

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1102		mg/Kg		110	70 - 130	7	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-46929/2-A
Matrix: Solid
Analysis Batch: 46928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46929

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1089		mg/Kg		109	70 - 130	7	35
Ethylbenzene			0.100	0.1027		mg/Kg		103	70 - 130	9	35
m,p-Xylenes			0.200	0.2128		mg/Kg		106	70 - 130	11	35
o-Xylene			0.100	0.1094		mg/Kg		109	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

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

Lab Sample ID: MB 880-46824/1-A
Matrix: Solid
Analysis Batch: 46831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46824

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 08:40	02/21/23 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 08:40	02/21/23 08:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 08:40	02/21/23 08:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*137*	*S1+*	*70 - 130*	*02/21/23 08:40*	*02/21/23 08:17*	*1*
o-Terphenyl (Surr)	*156*	*S1+*	*70 - 130*	*02/21/23 08:40*	*02/21/23 08:17*	*1*

Lab Sample ID: LCS 880-46824/2-A
Matrix: Solid
Analysis Batch: 46831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46824

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1084		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1170		mg/Kg		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*83*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-46824/3-A
Matrix: Solid
Analysis Batch: 46831

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46824

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1130		mg/Kg		113	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1043		mg/Kg		104	70 - 130	12	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-46824/3-A
Matrix: Solid
Analysis Batch: 46831

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46824

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	82		70 - 130
o-Terphenyl (Surr)	91		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46828/1-A
Matrix: Solid
Analysis Batch: 46871

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/21/23 15:17	1

Lab Sample ID: LCS 880-46828/2-A
Matrix: Solid
Analysis Batch: 46871

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	236.5		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-46828/3-A
Matrix: Solid
Analysis Batch: 46871

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	243.9		mg/Kg		98	90 - 110	3	20

Lab Sample ID: 890-4116-1 MS
Matrix: Solid
Analysis Batch: 46871

Client Sample ID: SW-12 0-10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	132		251	370.5		mg/Kg		95	90 - 110		

Lab Sample ID: 890-4116-1 MSD
Matrix: Solid
Analysis Batch: 46871

Client Sample ID: SW-12 0-10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	132		251	371.3		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

GC VOA

Prep Batch: 46868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46868/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 46928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4116-1	SW-12 0-10	Total/NA	Solid	8021B	46929
890-4116-2	SW-13 0-10	Total/NA	Solid	8021B	46929
890-4116-3	SW-20a 0-3	Total/NA	Solid	8021B	46929
890-4116-4	SW-20b 0-3	Total/NA	Solid	8021B	46929
890-4116-5	SW-22a 0-4	Total/NA	Solid	8021B	46929
890-4116-6	SW-22b 0-4	Total/NA	Solid	8021B	46929
890-4116-7	SW-22c 0-4	Total/NA	Solid	8021B	46929
MB 880-46868/5-A	Method Blank	Total/NA	Solid	8021B	46868
MB 880-46929/5-A	Method Blank	Total/NA	Solid	8021B	46929
LCS 880-46929/1-A	Lab Control Sample	Total/NA	Solid	8021B	46929
LCSD 880-46929/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46929

Prep Batch: 46929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4116-1	SW-12 0-10	Total/NA	Solid	5035	
890-4116-2	SW-13 0-10	Total/NA	Solid	5035	
890-4116-3	SW-20a 0-3	Total/NA	Solid	5035	
890-4116-4	SW-20b 0-3	Total/NA	Solid	5035	
890-4116-5	SW-22a 0-4	Total/NA	Solid	5035	
890-4116-6	SW-22b 0-4	Total/NA	Solid	5035	
890-4116-7	SW-22c 0-4	Total/NA	Solid	5035	
MB 880-46929/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46929/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46929/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 47043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4116-1	SW-12 0-10	Total/NA	Solid	Total BTEX	
890-4116-2	SW-13 0-10	Total/NA	Solid	Total BTEX	
890-4116-3	SW-20a 0-3	Total/NA	Solid	Total BTEX	
890-4116-4	SW-20b 0-3	Total/NA	Solid	Total BTEX	
890-4116-5	SW-22a 0-4	Total/NA	Solid	Total BTEX	
890-4116-6	SW-22b 0-4	Total/NA	Solid	Total BTEX	
890-4116-7	SW-22c 0-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 46824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4116-1	SW-12 0-10	Total/NA	Solid	8015NM Prep	
890-4116-2	SW-13 0-10	Total/NA	Solid	8015NM Prep	
890-4116-3	SW-20a 0-3	Total/NA	Solid	8015NM Prep	
890-4116-4	SW-20b 0-3	Total/NA	Solid	8015NM Prep	
890-4116-5	SW-22a 0-4	Total/NA	Solid	8015NM Prep	
890-4116-6	SW-22b 0-4	Total/NA	Solid	8015NM Prep	
890-4116-7	SW-22c 0-4	Total/NA	Solid	8015NM Prep	
MB 880-46824/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

GC Semi VOA (Continued)

Prep Batch: 46824 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-46824/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46824/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4116-1	SW-12 0-10	Total/NA	Solid	8015B NM	46824
890-4116-2	SW-13 0-10	Total/NA	Solid	8015B NM	46824
890-4116-3	SW-20a 0-3	Total/NA	Solid	8015B NM	46824
890-4116-4	SW-20b 0-3	Total/NA	Solid	8015B NM	46824
890-4116-5	SW-22a 0-4	Total/NA	Solid	8015B NM	46824
890-4116-6	SW-22b 0-4	Total/NA	Solid	8015B NM	46824
890-4116-7	SW-22c 0-4	Total/NA	Solid	8015B NM	46824
MB 880-46824/1-A	Method Blank	Total/NA	Solid	8015B NM	46824
LCS 880-46824/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46824
LCSD 880-46824/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46824

Analysis Batch: 46976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4116-1	SW-12 0-10	Total/NA	Solid	8015 NM	
890-4116-2	SW-13 0-10	Total/NA	Solid	8015 NM	
890-4116-3	SW-20a 0-3	Total/NA	Solid	8015 NM	
890-4116-4	SW-20b 0-3	Total/NA	Solid	8015 NM	
890-4116-5	SW-22a 0-4	Total/NA	Solid	8015 NM	
890-4116-6	SW-22b 0-4	Total/NA	Solid	8015 NM	
890-4116-7	SW-22c 0-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4116-1	SW-12 0-10	Soluble	Solid	DI Leach	
890-4116-2	SW-13 0-10	Soluble	Solid	DI Leach	
890-4116-3	SW-20a 0-3	Soluble	Solid	DI Leach	
890-4116-4	SW-20b 0-3	Soluble	Solid	DI Leach	
890-4116-5	SW-22a 0-4	Soluble	Solid	DI Leach	
890-4116-6	SW-22b 0-4	Soluble	Solid	DI Leach	
890-4116-7	SW-22c 0-4	Soluble	Solid	DI Leach	
MB 880-46828/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46828/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46828/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4116-1 MS	SW-12 0-10	Soluble	Solid	DI Leach	
890-4116-1 MSD	SW-12 0-10	Soluble	Solid	DI Leach	

Analysis Batch: 46871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4116-1	SW-12 0-10	Soluble	Solid	300.0	46828
890-4116-2	SW-13 0-10	Soluble	Solid	300.0	46828
890-4116-3	SW-20a 0-3	Soluble	Solid	300.0	46828
890-4116-4	SW-20b 0-3	Soluble	Solid	300.0	46828
890-4116-5	SW-22a 0-4	Soluble	Solid	300.0	46828
890-4116-6	SW-22b 0-4	Soluble	Solid	300.0	46828

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

HPLC/IC (Continued)

Analysis Batch: 46871 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4116-7	SW-22c 0-4	Soluble	Solid	300.0	46828
MB 880-46828/1-A	Method Blank	Soluble	Solid	300.0	46828
LCS 880-46828/2-A	Lab Control Sample	Soluble	Solid	300.0	46828
LCSD 880-46828/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46828
890-4116-1 MS	SW-12 0-10	Soluble	Solid	300.0	46828
890-4116-1 MSD	SW-12 0-10	Soluble	Solid	300.0	46828

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

Client Sample ID: SW-12 0-10

Lab Sample ID: 890-4116-1
Matrix: Solid
Date Collected: 02/16/23 09:36
Date Received: 02/16/23 15:22

Prep 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	46929	02/22/23 09:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/23/23 04:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47043	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46976	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46824	02/21/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 17:00	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46828	02/21/23 09:25	KS	EET MID
Soluble	Analysis	300.0		1			46871	02/21/23 15:35	CH	EET MID

Client Sample ID: SW-13 0-10

Lab Sample ID: 890-4116-2
Matrix: Solid
Date Collected: 02/16/23 09:38
Date Received: 02/16/23 15:22

Prep 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	46929	02/22/23 09:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/23/23 04:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47043	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46976	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	46824	02/21/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 17:22	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46828	02/21/23 09:25	KS	EET MID
Soluble	Analysis	300.0		1			46871	02/21/23 15:54	CH	EET MID

Client Sample ID: SW-20a 0-3

Lab Sample ID: 890-4116-3
Matrix: Solid
Date Collected: 02/16/23 12:08
Date Received: 02/16/23 15:22

Prep 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	46929	02/22/23 09:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/23/23 04:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47043	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46976	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46824	02/21/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 17:44	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46828	02/21/23 09:25	KS	EET MID
Soluble	Analysis	300.0		1			46871	02/21/23 16:00	CH	EET MID

Client Sample ID: SW-20b 0-3

Lab Sample ID: 890-4116-4
Matrix: Solid
Date Collected: 02/16/23 12:10
Date Received: 02/16/23 15:22

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	46929	02/22/23 09:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/23/23 05:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47043	02/23/23 12:18	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

Client Sample ID: SW-20b 0-3

Lab Sample ID: 890-4116-4
Matrix: Solid
Date Collected: 02/16/23 12:10
Date Received: 02/16/23 15:22

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			46976	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46824	02/21/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 18:06	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46828	02/21/23 09:25	KS	EET MID
Soluble	Analysis	300.0		1			46871	02/21/23 16:06	CH	EET MID

Client Sample ID: SW-22a 0-4

Lab Sample ID: 890-4116-5
Matrix: Solid
Date Collected: 02/16/23 12:20
Date Received: 02/16/23 15:22

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	46929	02/22/23 09:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/23/23 05:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47043	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46976	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46824	02/21/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 18:27	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46828	02/21/23 09:25	KS	EET MID
Soluble	Analysis	300.0		1			46871	02/21/23 16:12	CH	EET MID

Client Sample ID: SW-22b 0-4

Lab Sample ID: 890-4116-6
Matrix: Solid
Date Collected: 02/16/23 12:22
Date Received: 02/16/23 15:22

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	46929	02/22/23 09:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/23/23 05:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47043	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46976	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46824	02/21/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 18:49	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46828	02/21/23 09:25	KS	EET MID
Soluble	Analysis	300.0		1			46871	02/21/23 16:31	CH	EET MID

Client Sample ID: SW-22c 0-4

Lab Sample ID: 890-4116-7
Matrix: Solid
Date Collected: 02/16/23 12:24
Date Received: 02/16/23 15:22

Prep 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	46929	02/22/23 09:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/23/23 06:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47043	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46976	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46824	02/21/23 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 19:33	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

Client Sample ID: SW-22c 0-4
Date Collected: 02/16/23 12:24
Date Received: 02/16/23 15:22

Lab Sample ID: 890-4116-7
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			5.03 g	50 mL	46828	02/21/23 09:25	KS	EET MID
Soluble	Analysis	300.0		1			46871	02/21/23 16:37	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.
Project/Site: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

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: 890-4116-1
Project/Site: Boo Radley SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 890-4116-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4116-1	SW-12 0-10	Solid	02/16/23 09:36	02/16/23 15:22
890-4116-2	SW-13 0-10	Solid	02/16/23 09:38	02/16/23 15:22
890-4116-3	SW-20a 0-3	Solid	02/16/23 12:08	02/16/23 15:22
890-4116-4	SW-20b 0-3	Solid	02/16/23 12:10	02/16/23 15:22
890-4116-5	SW-22a 0-4	Solid	02/16/23 12:20	02/16/23 15:22
890-4116-6	SW-22b 0-4	Solid	02/16/23 12:22	02/16/23 15:22
890-4116-7	SW-22c 0-4	Solid	02/16/23 12:24	02/16/23 15:22

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890-4116 Chain of Custody

No. 3007

CHAIN-OF-CUSTODY

2/23/2023

Larson & Associates, Inc.
Environmental Consultants

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

Data Reported to:

DATE: 2/16/2023 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: BIG RARLEY

LAI PROJECT #: 21-0105-08 COLLECTOR: DSG

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

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 ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
SW-12 0-10		2/16/23	0936	S	1				X		X		X	X	X																												X			
SW-13 0-10		2/16/23	0938	S	1				X		X		X	X	X																												X			
SW-20a 0-3		2/16/23	1208	S	1				X		X		X	X	X																												X			
SW-20b 0-3		2/16/23	1210	S	1				X		X		X	X	X																												X			
SW-22a 0-4		2/16/23	1220	S	1				X		X		X	X	X																												X			
SW-22b 0-4		2/16/23	1222	S	1				X		X		X	X	X																												X			
SW-22c 0-4		2/16/23	1224	S	1				X		X		X	X	X																												X			

TOTAL 7

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Daniel Hyman	2-16-23 1522	Amanda Sluss
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: 1.4/1.2 TNM-007
THERM#: -0.2
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Page 25 of 27

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-4116-1
SDG Number: 21-0105-08

Login Number: 4116
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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?	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.	N/A	Refer to Job Narrative for details.
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: 890-4116-1
SDG Number: 21-0105-08

Login Number: 4116
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 02/21/23 08:18 AM

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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 2/27/2023 4:28:13 PM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

880-24919-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 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
2/27/2023 4:28:13 PM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 880-24919-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-24919-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD 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: Boo Radley

Job ID: 880-24919-1
SDG: 21-0105-08

Job ID: 880-24919-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-24919-1

Receipt
The samples were received on 2/20/2023 8:45 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 time was 4.9°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-11 0-10 (880-24919-1) and SW-15 0-10 (880-24919-2).

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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46823 and analytical batch 880-46829 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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 880-46719 and analytical batch 880-47190 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.

Released to Imaging: 1/9/2024 10:58:26 AM

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24919-1
SDG: 21-0105-08

Client Sample ID: SW-11 0-10

Lab Sample ID: 880-24919-1
Matrix: Solid
Date Collected: 02/17/23 09:14
Date Received: 02/20/23 08:45

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		02/24/23 11:42	02/25/23 09:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/24/23 11:42	02/25/23 09:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/24/23 11:42	02/25/23 09:02	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		02/24/23 11:42	02/25/23 09:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/24/23 11:42	02/25/23 09:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/24/23 11:42	02/25/23 09:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*02/24/23 11:42*	*02/25/23 09:02*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/24/23 11:42*	*02/25/23 09:02*	*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			02/27/23 16:41	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			02/22/23 16:01	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		02/21/23 08:38	02/21/23 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/21/23 08:38	02/21/23 15:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 08:38	02/21/23 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*02/21/23 08:38*	*02/21/23 15:55*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*02/21/23 08:38*	*02/21/23 15:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**264**	**F1**	4.98		mg/Kg			02/24/23 11:23	1

Client Sample ID: SW-15 0-10

Lab Sample ID: 880-24919-2
Matrix: Solid
Date Collected: 02/17/23 09:20
Date Received: 02/20/23 08:45

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		02/24/23 11:42	02/25/23 09:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/24/23 11:42	02/25/23 09:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/24/23 11:42	02/25/23 09:23	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		02/24/23 11:42	02/25/23 09:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/24/23 11:42	02/25/23 09:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/24/23 11:42	02/25/23 09:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*02/24/23 11:42*	*02/25/23 09:23*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/24/23 11:42*	*02/25/23 09:23*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-24919-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: SW-15 0-10 Lab Sample ID: 880-24919-2

Date Collected: 02/17/23 09:20 **Matrix: Solid**
Date Received: 02/20/23 08:45

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			02/27/23 16:41	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			02/22/23 16:01	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		02/21/23 08:38	02/21/23 16:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/21/23 08:38	02/21/23 16:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 08:38	02/21/23 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*02/21/23 08:38*	*02/21/23 16:16*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*02/21/23 08:38*	*02/21/23 16:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	412		5.00		mg/Kg			02/24/23 11:37	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24919-1
SDG: 21-0105-08

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)
880-24919-1	SW-11 0-10	107	102
880-24919-2	SW-15 0-10	119	108
LCS 880-47016/1-A	Lab Control Sample	108	112
LCSD 880-47016/2-A	Lab Control Sample Dup	109	109
MB 880-47016/5-B	Method Blank	102	100
MB 880-47145/5-A	Method Blank	107	103

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)
880-24919-1	SW-11 0-10	87	86
880-24919-2	SW-15 0-10	103	100
LCS 880-46823/2-A	Lab Control Sample	127	129
LCSD 880-46823/3-A	Lab Control Sample Dup	114	108
MB 880-46823/1-A	Method Blank	104	108

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24919-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47016/5-B
Matrix: Solid
Analysis Batch: 47140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47016

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/24/23 11:42	02/25/23 01:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/24/23 11:42	02/25/23 01:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/24/23 11:42	02/25/23 01:15	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/24/23 11:42	02/25/23 01:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/24/23 11:42	02/25/23 01:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/24/23 11:42	02/25/23 01:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/24/23 11:42*	*02/25/23 01:15*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/24/23 11:42*	*02/25/23 01:15*	*1*

Lab Sample ID: LCS 880-47016/1-A
Matrix: Solid
Analysis Batch: 47140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47016

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08552		mg/Kg		86	70 - 130		
Toluene			0.100	0.08570		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.08838		mg/Kg		88	70 - 130		
m,p-Xylenes			0.200	0.1889		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.09331		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-47016/2-A
Matrix: Solid
Analysis Batch: 47140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47016

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09543		mg/Kg		95	70 - 130	11	35
Toluene			0.100	0.09362		mg/Kg		94	70 - 130	9	35
Ethylbenzene			0.100	0.09933		mg/Kg		99	70 - 130	12	35
m,p-Xylenes			0.200	0.2103		mg/Kg		105	70 - 130	11	35
o-Xylene			0.100	0.1034		mg/Kg		103	70 - 130	10	35

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

Lab Sample ID: MB 880-47145/5-A
Matrix: Solid
Analysis Batch: 47140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47145

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/24/23 09:38	02/24/23 13:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/24/23 09:38	02/24/23 13:39	1

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-24919-1
Project/Site: Boo Radley SDG: 21-0105-08

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

Lab Sample ID: MB 880-47145/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 47140 **Prep Batch: 47145**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/24/23 09:38	02/24/23 13:39	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/24/23 09:38	02/24/23 13:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/24/23 09:38	02/24/23 13:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/24/23 09:38	02/24/23 13:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*02/24/23 09:38*	*02/24/23 13:39*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*02/24/23 09:38*	*02/24/23 13:39*	*1*

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

Lab Sample ID: MB 880-46823/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 46829 **Prep Batch: 46823**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 08:38	02/21/23 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 08:38	02/21/23 08:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 08:38	02/21/23 08:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*02/21/23 08:38*	*02/21/23 08:17*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*02/21/23 08:38*	*02/21/23 08:17*	*1*

Lab Sample ID: LCS 880-46823/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 46829 **Prep Batch: 46823**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1049		mg/Kg		105	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1212		mg/Kg		121	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*127*		*70 - 130*
o-Terphenyl (Surr)	*129*		*70 - 130*

Lab Sample ID: LCSD 880-46823/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 46829 **Prep Batch: 46823**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	857.5		mg/Kg		86	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	955.2	*1	mg/Kg		96	70 - 130	24	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24919-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-46823/3-A
Matrix: Solid
Analysis Batch: 46829

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46823

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	114		70 - 130
o-Terphenyl (Surr)	108		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46719/1-A
Matrix: Solid
Analysis Batch: 47190

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/24/23 11:09	1

Lab Sample ID: LCS 880-46719/2-A
Matrix: Solid
Analysis Batch: 47190

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.9		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-46719/3-A
Matrix: Solid
Analysis Batch: 47190

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	243.3		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 880-24919-1 MS
Matrix: Solid
Analysis Batch: 47190

Client Sample ID: SW-11 0-10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	264	F1	249	554.8	F1	mg/Kg		117	90 - 110		

Lab Sample ID: 880-24919-1 MSD
Matrix: Solid
Analysis Batch: 47190

Client Sample ID: SW-11 0-10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	264	F1	249	554.5	F1	mg/Kg		117	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-24919-1
Project/Site: Boo Radley SDG: 21-0105-08

GC VOA

Prep Batch: 47016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24919-1	SW-11 0-10	Total/NA	Solid	5035	
880-24919-2	SW-15 0-10	Total/NA	Solid	5035	
MB 880-47016/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-47016/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47016/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 47140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24919-1	SW-11 0-10	Total/NA	Solid	8021B	47016
880-24919-2	SW-15 0-10	Total/NA	Solid	8021B	47016
MB 880-47016/5-B	Method Blank	Total/NA	Solid	8021B	47016
MB 880-47145/5-A	Method Blank	Total/NA	Solid	8021B	47145
LCS 880-47016/1-A	Lab Control Sample	Total/NA	Solid	8021B	47016
LCSD 880-47016/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47016

Prep Batch: 47145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47145/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 47362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24919-1	SW-11 0-10	Total/NA	Solid	Total BTEX	
880-24919-2	SW-15 0-10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 46823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24919-1	SW-11 0-10	Total/NA	Solid	8015NM Prep	
880-24919-2	SW-15 0-10	Total/NA	Solid	8015NM Prep	
MB 880-46823/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46823/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46823/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24919-1	SW-11 0-10	Total/NA	Solid	8015B NM	46823
880-24919-2	SW-15 0-10	Total/NA	Solid	8015B NM	46823
MB 880-46823/1-A	Method Blank	Total/NA	Solid	8015B NM	46823
LCS 880-46823/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46823
LCSD 880-46823/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46823

Analysis Batch: 46960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24919-1	SW-11 0-10	Total/NA	Solid	8015 NM	
880-24919-2	SW-15 0-10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24919-1	SW-11 0-10	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-24919-1
Project/Site: Boo Radley SDG: 21-0105-08

HPLC/IC (Continued)

Leach Batch: 46719 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24919-2	SW-15 0-10	Soluble	Solid	DI Leach	
MB 880-46719/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46719/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46719/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24919-1 MS	SW-11 0-10	Soluble	Solid	DI Leach	
880-24919-1 MSD	SW-11 0-10	Soluble	Solid	DI Leach	

Analysis Batch: 47190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24919-1	SW-11 0-10	Soluble	Solid	300.0	46719
880-24919-2	SW-15 0-10	Soluble	Solid	300.0	46719
MB 880-46719/1-A	Method Blank	Soluble	Solid	300.0	46719
LCS 880-46719/2-A	Lab Control Sample	Soluble	Solid	300.0	46719
LCSD 880-46719/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46719
880-24919-1 MS	SW-11 0-10	Soluble	Solid	300.0	46719
880-24919-1 MSD	SW-11 0-10	Soluble	Solid	300.0	46719

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-24919-1
SDG: 21-0105-08

Client Sample ID: SW-11 0-10

Lab Sample ID: 880-24919-1

Date Collected: 02/17/23 09:14
Matrix: Solid
Date Received: 02/20/23 08:45

Prep 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	47016	02/24/23 11:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 09:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47362	02/27/23 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			46960	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46823	02/21/23 08:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 15:55	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46719	02/20/23 13:06	KS	EET MID
Soluble	Analysis	300.0		1			47190	02/24/23 11:23	CH	EET MID

Client Sample ID: SW-15 0-10

Lab Sample ID: 880-24919-2

Date Collected: 02/17/23 09:20
Matrix: Solid
Date Received: 02/20/23 08:45

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	47016	02/24/23 11:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 09:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47362	02/27/23 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			46960	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46823	02/21/23 08:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 16:16	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46719	02/20/23 13:06	KS	EET MID
Soluble	Analysis	300.0		1			47190	02/24/23 11:37	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: 880-24919-1
Project/Site: Boo Radley SDG: 21-0105-08

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: Boo Radley

Job ID: 880-24919-1
SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 880-24919-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-24919-1	SW-11 0-10	Solid	02/17/23 09:14	02/20/23 08:45
880-24919-2	SW-15 0-10	Solid	02/17/23 09:20	02/20/23 08:45

Released to Imaging: 1/9/2024 10:58:26 AM
Received by OCD: 7/19/2023 8:51:08 AM

24919 No. 3008

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 2/17/2023 PAGE 1 OF 1
PO# LAB WORK ORDER#
PROJECT LOCATION OR NAME BOO RADLEY
LAI PROJECT # 21-0105-08 COLLECTOR DSG

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MNT/NM

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

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 ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☑	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
SW-11 0-10		2/17/23	0914	S	1				X		X				X	X	X																									X			707
SW-15 0-10		2/17/23	0920	S	1				X		X				X	X	X																									X			

880-24919 Chain of Custody

TOTAL 2

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	2/20 0845	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 5.2/4.9 THERM# IR2
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-24919-1
SDG Number: 21-0105-08

Login Number: 24919
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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

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JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

880-25192-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 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
3/9/2023 1:49:45 PM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 880-25192-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-25192-1
Project/Site: Boo Radley SDG: 21-0105-08

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
*1	LCS/LCSD RPD exceeds control limits.
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. Job ID: 880-25192-1
Project/Site: Boo Radley SDG: 21-0105-08

Job ID: 880-25192-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-25192-1

Receipt
The samples were received on 2/27/2023 10:04 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 -2.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-6 0-10' (880-25192-1), C-66 3.5 (880-25192-2), C-67 3.5 (880-25192-3), C-68 3.5 (880-25192-4), C-69 3.5 (880-25192-5), C-70 3.5 (880-25192-6), C-71 4.5 (880-25192-7), C-73 4.5 (880-25192-8), C-75 4.5 (880-25192-9), C-76 4.5 (880-25192-10), SW-5 0-10 (880-25192-11), SW-9 0-10 (880-25192-12) and SW-10 0-10 (880-25192-13).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48104 and analytical batch 880-48098 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.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-68 3.5 (880-25192-4), C-69 3.5 (880-25192-5), C-70 3.5 (880-25192-6) and (CCV 880-48085/33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-47356 and analytical batch 880-47599 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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.

Released to Imaging: 1/9/2024 10:58:26 AM

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

Client Sample ID: SW-6 0-10'

Lab Sample ID: 880-25192-1
Matrix: Solid
Date Collected: 02/21/23 11:36
Date Received: 02/27/23 10:04

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		03/06/23 12:10	03/07/23 21:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/23 12:10	03/07/23 21:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/23 12:10	03/07/23 21:14	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/06/23 12:10	03/07/23 21:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/23 12:10	03/07/23 21:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/23 12:10	03/07/23 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/06/23 12:10*	*03/07/23 21:14*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/06/23 12:10*	*03/07/23 21:14*	*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			03/08/23 12:33	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			03/03/23 12:43	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		02/27/23 16:37	03/02/23 11:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/27/23 16:37	03/02/23 11:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/23 16:37	03/02/23 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*02/27/23 16:37*	*03/02/23 11:42*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*02/27/23 16:37*	*03/02/23 11:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**115**		5.04		mg/Kg			03/05/23 16:44	1

Client Sample ID: C-66 3.5

Lab Sample ID: 880-25192-2
Matrix: Solid
Date Collected: 02/22/23 12:24
Date Received: 02/27/23 10:04

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		03/06/23 12:10	03/07/23 21:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/23 12:10	03/07/23 21:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/23 12:10	03/07/23 21:35	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/06/23 12:10	03/07/23 21:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/23 12:10	03/07/23 21:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/23 12:10	03/07/23 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/06/23 12:10*	*03/07/23 21:35*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*03/06/23 12:10*	*03/07/23 21:35*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25192-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-66 3.5 Lab Sample ID: 880-25192-2

Date Collected: 02/22/23 12:24 **Matrix: Solid**
Date Received: 02/27/23 10:04

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			03/08/23 12:33	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			03/03/23 12:43	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		02/27/23 16:37	03/02/23 12:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/27/23 16:37	03/02/23 12:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/23 16:37	03/02/23 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*02/27/23 16:37*	*03/02/23 12:03*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*02/27/23 16:37*	*03/02/23 12:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**142**		5.00		mg/Kg			03/05/23 16:58	1

Client Sample ID: C-67 3.5 Lab Sample ID: 880-25192-3

Date Collected: 02/22/23 12:26 **Matrix: Solid**
Date Received: 02/27/23 10:04

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		03/06/23 12:10	03/07/23 21:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/23 12:10	03/07/23 21:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/23 12:10	03/07/23 21:55	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/06/23 12:10	03/07/23 21:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/23 12:10	03/07/23 21:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/23 12:10	03/07/23 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*03/06/23 12:10*	*03/07/23 21:55*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/06/23 12:10*	*03/07/23 21:55*	*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			03/08/23 12:33	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			03/03/23 12:43	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		02/27/23 16:37	03/02/23 12:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/27/23 16:37	03/02/23 12:25	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25192-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-67 3.5 — Lab Sample ID: 880-25192-3

Date Collected: 02/22/23 12:26 **Matrix: Solid**
Date Received: 02/27/23 10:04

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		02/27/23 16:37	03/02/23 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*02/27/23 16:37*	*03/02/23 12:25*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*02/27/23 16:37*	*03/02/23 12:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**131**		4.99		mg/Kg			03/05/23 17:03	1

Client Sample ID: C-68 3.5 — Lab Sample ID: 880-25192-4

Date Collected: 02/22/23 12:28 **Matrix: Solid**
Date Received: 02/27/23 10:04

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		03/08/23 09:05	03/08/23 18:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/08/23 09:05	03/08/23 18:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/08/23 09:05	03/08/23 18:30	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/08/23 09:05	03/08/23 18:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/08/23 09:05	03/08/23 18:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/08/23 09:05	03/08/23 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*03/08/23 09:05*	*03/08/23 18:30*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*03/08/23 09:05*	*03/08/23 18:30*	*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			03/09/23 14:18	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			03/03/23 12:43	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		02/27/23 16:37	03/02/23 12:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/27/23 16:37	03/02/23 12:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/23 16:37	03/02/23 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*02/27/23 16:37*	*03/02/23 12:57*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*02/27/23 16:37*	*03/02/23 12:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		4.95		mg/Kg			03/05/23 17:08	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

Client Sample ID: C-69 3.5

Date Collected: 02/22/23 12:30
Date Received: 02/27/23 10:04

Lab Sample ID: 880-25192-5

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		03/08/23 09:05	03/08/23 18:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:05	03/08/23 18:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:05	03/08/23 18:50	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/23 09:05	03/08/23 18:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:05	03/08/23 18:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/23 09:05	03/08/23 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*03/08/23 09:05*	*03/08/23 18:50*	*1*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*03/08/23 09:05*	*03/08/23 18:50*	*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			03/09/23 14:18	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			03/03/23 12:43	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		02/27/23 16:37	03/02/23 13:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/27/23 16:37	03/02/23 13:18	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/23 16:37	03/02/23 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*02/27/23 16:37*	*03/02/23 13:18*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*02/27/23 16:37*	*03/02/23 13:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**349**		4.97		mg/Kg			03/05/23 17:13	1

Client Sample ID: C-70 3.5

Date Collected: 02/22/23 12:32
Date Received: 02/27/23 10:04

Lab Sample ID: 880-25192-6

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		03/08/23 09:05	03/08/23 19:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:05	03/08/23 19:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:05	03/08/23 19:11	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/23 09:05	03/08/23 19:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:05	03/08/23 19:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/23 09:05	03/08/23 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*03/08/23 09:05*	*03/08/23 19:11*	*1*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*03/08/23 09:05*	*03/08/23 19:11*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

Client Sample ID: C-70 3.5

Date Collected: 02/22/23 12:32
Date Received: 02/27/23 10:04

Lab Sample ID: 880-25192-6

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			03/09/23 14:18	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			03/03/23 12:43	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		02/27/23 16:37	03/02/23 13:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/27/23 16:37	03/02/23 13:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/23 16:37	03/02/23 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*02/27/23 16:37*	*03/02/23 13:40*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*02/27/23 16:37*	*03/02/23 13:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.0**		4.96		mg/Kg			03/05/23 17:28	1

Client Sample ID: C-71 4.5

Date Collected: 02/23/23 13:05
Date Received: 02/27/23 10:04

Lab Sample ID: 880-25192-7

Matrix: Solid

Method: SW846 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		03/08/23 09:47	03/08/23 12:36	1
Toluene	<0.00201	U F2 F1	0.00201		mg/Kg		03/08/23 09:47	03/08/23 12:36	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		03/08/23 09:47	03/08/23 12:36	1
m,p-Xylenes	<0.00402	U F1	0.00402		mg/Kg		03/08/23 09:47	03/08/23 12:36	1
o-Xylene	<0.00201	U F2 F1	0.00201		mg/Kg		03/08/23 09:47	03/08/23 12:36	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		03/08/23 09:47	03/08/23 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*03/08/23 09:47*	*03/08/23 12:36*	*1*
1,4-Difluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*03/08/23 09:47*	*03/08/23 12:36*	*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			03/09/23 14:36	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			03/03/23 12:43	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		02/27/23 16:37	03/02/23 14:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/27/23 16:37	03/02/23 14:02	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25192-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-71 4.5 — Lab Sample ID: 880-25192-7

Date Collected: 02/23/23 13:05 **Matrix: Solid**
Date Received: 02/27/23 10:04

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		02/27/23 16:37	03/02/23 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*02/27/23 16:37*	*03/02/23 14:02*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*02/27/23 16:37*	*03/02/23 14:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57.7**		5.01		mg/Kg			03/05/23 17:32	1

Client Sample ID: C-73 4.5 — Lab Sample ID: 880-25192-8

Date Collected: 02/23/23 13:12 **Matrix: Solid**
Date Received: 02/27/23 10:04

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		03/08/23 09:47	03/08/23 12:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/08/23 09:47	03/08/23 12:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/08/23 09:47	03/08/23 12:57	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		03/08/23 09:47	03/08/23 12:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/08/23 09:47	03/08/23 12:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/08/23 09:47	03/08/23 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/08/23 09:47*	*03/08/23 12:57*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/08/23 09:47*	*03/08/23 12:57*	*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			03/09/23 14:36	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			03/03/23 12:43	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		02/27/23 16:37	03/02/23 14:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/27/23 16:37	03/02/23 14:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/23 16:37	03/02/23 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*78*		*70 - 130*	*02/27/23 16:37*	*03/02/23 14:25*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*02/27/23 16:37*	*03/02/23 14:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**138**		5.00		mg/Kg			03/05/23 17:37	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

Client Sample ID: C-75 4.5

Date Collected: 02/23/23 13:16
Date Received: 02/27/23 10:04

Lab Sample ID: 880-25192-9
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		03/08/23 09:47	03/08/23 13:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:47	03/08/23 13:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:47	03/08/23 13:18	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/23 09:47	03/08/23 13:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:47	03/08/23 13:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/23 09:47	03/08/23 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/08/23 09:47*	*03/08/23 13:18*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/08/23 09:47*	*03/08/23 13:18*	*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			03/09/23 14:36	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			03/03/23 12:43	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		02/27/23 16:37	03/02/23 14:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/27/23 16:37	03/02/23 14:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/23 16:37	03/02/23 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*02/27/23 16:37*	*03/02/23 14:47*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*02/27/23 16:37*	*03/02/23 14:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**471**		4.95		mg/Kg			03/05/23 17:42	1

Client Sample ID: C-76 4.5

Date Collected: 02/23/23 13:18
Date Received: 02/27/23 10:04

Lab Sample ID: 880-25192-10
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		03/08/23 09:47	03/08/23 13:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:47	03/08/23 13:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:47	03/08/23 13:38	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/23 09:47	03/08/23 13:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:47	03/08/23 13:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/23 09:47	03/08/23 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/08/23 09:47*	*03/08/23 13:38*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/08/23 09:47*	*03/08/23 13:38*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

Client Sample ID: C-76 4.5

Date Collected: 02/23/23 13:18
Date Received: 02/27/23 10:04

Lab Sample ID: 880-25192-10

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			03/09/23 14:36	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			03/03/23 12:43	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		02/27/23 16:37	03/02/23 15:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/27/23 16:37	03/02/23 15:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/23 16:37	03/02/23 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*02/27/23 16:37*	*03/02/23 15:58*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*02/27/23 16:37*	*03/02/23 15:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**135**		4.97		mg/Kg			03/05/23 17:47	1

Client Sample ID: SW-5 0-10

Date Collected: 02/24/23 10:48
Date Received: 02/27/23 10:04

Lab Sample ID: 880-25192-11

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		03/08/23 09:47	03/08/23 13:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:47	03/08/23 13:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:47	03/08/23 13:59	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/23 09:47	03/08/23 13:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:47	03/08/23 13:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/23 09:47	03/08/23 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/08/23 09:47*	*03/08/23 13:59*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/08/23 09:47*	*03/08/23 13:59*	*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			03/09/23 14:36	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			03/03/23 12:43	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		02/27/23 16:37	03/02/23 16:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/27/23 16:37	03/02/23 16:20	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25192-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: SW-5 0-10 Lab Sample ID: 880-25192-11

Date Collected: 02/24/23 10:48 **Matrix: Solid**
Date Received: 02/27/23 10:04

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		02/27/23 16:37	03/02/23 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*02/27/23 16:37*	*03/02/23 16:20*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*02/27/23 16:37*	*03/02/23 16:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1440**		49.5		mg/Kg			03/05/23 17:52	10

Client Sample ID: SW-9 0-10 Lab Sample ID: 880-25192-12

Date Collected: 02/24/23 11:18 **Matrix: Solid**
Date Received: 02/27/23 10:04

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		03/08/23 09:47	03/08/23 14:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:47	03/08/23 14:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:47	03/08/23 14:20	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/08/23 09:47	03/08/23 14:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/23 09:47	03/08/23 14:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/23 09:47	03/08/23 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/08/23 09:47*	*03/08/23 14:20*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/08/23 09:47*	*03/08/23 14:20*	*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			03/09/23 14:36	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			03/03/23 12:43	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		02/27/23 16:37	03/02/23 16:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/27/23 16:37	03/02/23 16:43	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/23 16:37	03/02/23 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*02/27/23 16:37*	*03/02/23 16:43*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*02/27/23 16:37*	*03/02/23 16:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**491**		4.98		mg/Kg			03/05/23 18:07	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

Client Sample ID: SW-10 0-10

Date Collected: 02/24/23 11:20
Date Received: 02/27/23 10:04

Lab Sample ID: 880-25192-13

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		03/08/23 13:47	03/09/23 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/23 13:47	03/09/23 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/23 13:47	03/09/23 11:55	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/08/23 13:47	03/09/23 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/23 13:47	03/09/23 11:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/08/23 13:47	03/09/23 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*03/08/23 13:47*	*03/09/23 11:55*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/08/23 13:47*	*03/09/23 11:55*	*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			03/09/23 13:52	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			03/03/23 12:43	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		02/27/23 16:37	03/02/23 17:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		02/27/23 16:37	03/02/23 17:05	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/27/23 16:37	03/02/23 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*02/27/23 16:37*	*03/02/23 17:05*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*02/27/23 16:37*	*03/02/23 17:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**439**		5.00		mg/Kg			03/05/23 18:12	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

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)
880-25192-1	SW-6 0-10'	110	108
880-25192-2	C-66 3.5	116	107
880-25192-3	C-67 3.5	118	109
880-25192-4	C-68 3.5	67 S1-	77
880-25192-5	C-69 3.5	84	64 S1-
880-25192-6	C-70 3.5	72	68 S1-
880-25192-7	C-71 4.5	70	61 S1-
880-25192-7 MS	C-71 4.5	46 S1-	87
880-25192-7 MSD	C-71 4.5	42 S1-	75
880-25192-8	C-73 4.5	105	99
880-25192-9	C-75 4.5	109	94
880-25192-10	C-76 4.5	102	99
880-25192-11	SW-5 0-10	98	88
880-25192-12	SW-9 0-10	111	95
880-25192-13	SW-10 0-10	117	108
LCS 880-47929/1-A	Lab Control Sample	116	112
LCS 880-48088/1-A	Lab Control Sample	99	84
LCS 880-48104/1-A	Lab Control Sample	93	94
LCS 880-48127/1-A	Lab Control Sample	112	106
LCSD 880-47929/2-A	Lab Control Sample Dup	111	109
LCSD 880-48088/2-A	Lab Control Sample Dup	91	112
LCSD 880-48104/2-A	Lab Control Sample Dup	95	91
LCSD 880-48127/2-A	Lab Control Sample Dup	122	107
MB 880-47929/5-A	Method Blank	104	100
MB 880-48088/5-A	Method Blank	101	82
MB 880-48091/5-A	Method Blank	104	101
MB 880-48104/5-A	Method Blank	87	90
MB 880-48127/5-A	Method Blank	107	103

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)
880-25192-1	SW-6 0-10'	108	101
880-25192-2	C-66 3.5	109	105
880-25192-3	C-67 3.5	106	102
880-25192-4	C-68 3.5	88	96
880-25192-5	C-69 3.5	85	93
880-25192-6	C-70 3.5	83	86
880-25192-7	C-71 4.5	105	102
880-25192-8	C-73 4.5	78	86
880-25192-9	C-75 4.5	82	90
880-25192-10	C-76 4.5	83	89
880-25192-11	SW-5 0-10	102	103

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-25192-1
Project/Site: Boo Radley SDG: 21-0105-08

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)								
880-25192-12	SW-9 0-10	103	102								
880-25192-13	SW-10 0-10	83	90								
LCS 880-47356/2-A	Lab Control Sample	109	108								
LCSD 880-47356/3-A	Lab Control Sample Dup	84	90								
MB 880-47356/1-A	Method Blank	107	110								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47929/5-A
Matrix: Solid
Analysis Batch: 47994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47929

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/23 12:10	03/07/23 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/23 12:10	03/07/23 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/23 12:10	03/07/23 13:19	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/06/23 12:10	03/07/23 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/23 12:10	03/07/23 13:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/23 12:10	03/07/23 13:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/06/23 12:10*	*03/07/23 13:19*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/06/23 12:10*	*03/07/23 13:19*	*1*

Lab Sample ID: LCS 880-47929/1-A
Matrix: Solid
Analysis Batch: 47994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47929

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	0.1036		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.1140		mg/Kg		114	70 - 130		
m,p-Xylenes			0.200	0.2451		mg/Kg		123	70 - 130		
o-Xylene			0.100	0.1197		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-47929/2-A
Matrix: Solid
Analysis Batch: 47994

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47929

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08336		mg/Kg		83	70 - 130	20	35
Toluene			0.100	0.08120		mg/Kg		81	70 - 130	24	35
Ethylbenzene			0.100	0.08464		mg/Kg		85	70 - 130	30	35
m,p-Xylenes			0.200	0.1812		mg/Kg		91	70 - 130	30	35
o-Xylene			0.100	0.09081		mg/Kg		91	70 - 130	27	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: MB 880-48088/5-A
Matrix: Solid
Analysis Batch: 48085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48088

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:05	03/08/23 11:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:05	03/08/23 11:09	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-48088/5-A
Matrix: Solid
Analysis Batch: 48085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48088

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:05	03/08/23 11:09	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/08/23 09:05	03/08/23 11:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:05	03/08/23 11:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/08/23 09:05	03/08/23 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/08/23 09:05*	*03/08/23 11:09*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*03/08/23 09:05*	*03/08/23 11:09*	*1*

Lab Sample ID: LCS 880-48088/1-A
Matrix: Solid
Analysis Batch: 48085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48088

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09294		mg/Kg		93	70 - 130		
Toluene			0.100	0.09646		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.1056		mg/Kg		106	70 - 130		
m,p-Xylenes			0.200	0.2195		mg/Kg		110	70 - 130		
o-Xylene			0.100	0.1058		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: LCSD 880-48088/2-A
Matrix: Solid
Analysis Batch: 48085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48088

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1053		mg/Kg		105	70 - 130	12	35
Toluene			0.100	0.09354		mg/Kg		94	70 - 130	3	35
Ethylbenzene			0.100	0.09816		mg/Kg		98	70 - 130	7	35
m,p-Xylenes			0.200	0.2025		mg/Kg		101	70 - 130	8	35
o-Xylene			0.100	0.09782		mg/Kg		98	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 880-48091/5-A
Matrix: Solid
Analysis Batch: 48087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48091

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:25	03/08/23 15:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:25	03/08/23 15:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:25	03/08/23 15:45	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/08/23 09:25	03/08/23 15:45	1

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25192-1
Project/Site: Boo Radley SDG: 21-0105-08

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

Lab Sample ID: MB 880-48091/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 48087 **Prep Batch: 48091**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:25	03/08/23 15:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/08/23 09:25	03/08/23 15:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/08/23 09:25*	*03/08/23 15:45*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/08/23 09:25*	*03/08/23 15:45*	*1*

Lab Sample ID: MB 880-48104/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 48098 **Prep Batch: 48104**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:47	03/08/23 12:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:47	03/08/23 12:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:47	03/08/23 12:14	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/08/23 09:47	03/08/23 12:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/23 09:47	03/08/23 12:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/08/23 09:47	03/08/23 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*03/08/23 09:47*	*03/08/23 12:14*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/08/23 09:47*	*03/08/23 12:14*	*1*

Lab Sample ID: LCS 880-48104/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 48098 **Prep Batch: 48104**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09481		mg/Kg		95	70 - 130		
Toluene			0.100	0.09602		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09528		mg/Kg		95	70 - 130		
m,p-Xylenes			0.200	0.1960		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.09761		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-48104/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 48098 **Prep Batch: 48104**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09710		mg/Kg		97	70 - 130	2	35
Toluene			0.100	0.09753		mg/Kg		98	70 - 130	2	35
Ethylbenzene			0.100	0.09558		mg/Kg		96	70 - 130	0	35
m,p-Xylenes			0.200	0.1947		mg/Kg		97	70 - 130	1	35
o-Xylene			0.100	0.09685		mg/Kg		97	70 - 130	1	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-25192-7 MS — **Client Sample ID: C-71 4.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48098 — **Prep Batch: 48104**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F2 F1	0.100	0.07627		mg/Kg		75	70 - 130
Toluene	<0.00201	U F2 F1	0.100	0.07278		mg/Kg		72	70 - 130
Ethylbenzene	<0.00201	U F1	0.100	0.05618	F1	mg/Kg		56	70 - 130
m,p-Xylenes	<0.00402	U F1	0.200	0.09163	F1	mg/Kg		46	70 - 130
o-Xylene	<0.00201	U F2 F1	0.100	0.04968	F1	mg/Kg		49	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	46	S1-	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-25192-7 MSD — **Client Sample ID: C-71 4.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48098 — **Prep Batch: 48104**

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	0.04566	F2 F1	mg/Kg		45	70 - 130	50	35
Toluene	<0.00201	U F2 F1	0.0996	0.04942	F2 F1	mg/Kg		49	70 - 130	38	35
Ethylbenzene	<0.00201	U F1	0.0996	0.04194	F1	mg/Kg		42	70 - 130	29	35
m,p-Xylenes	<0.00402	U F1	0.199	0.06707	F1	mg/Kg		34	70 - 130	31	35
o-Xylene	<0.00201	U F2 F1	0.0996	0.03337	F2 F1	mg/Kg		33	70 - 130	39	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	42	S1-	70 - 130
1,4-Difluorobenzene (Surr)	75		70 - 130

Lab Sample ID: MB 880-48127/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48087 — **Prep Batch: 48127**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/08/23 13:47	03/09/23 04:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/08/23 13:47	03/09/23 04:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/08/23 13:47	03/09/23 04:30	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		03/08/23 13:47	03/09/23 04:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/08/23 13:47	03/09/23 04:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/08/23 13:47	03/09/23 04:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/08/23 13:47	03/09/23 04:30	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/08/23 13:47	03/09/23 04:30	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

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

Lab Sample ID: LCS 880-48127/1-A
Matrix: Solid
Analysis Batch: 48087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48127

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07568		mg/Kg		76	70 - 130		
Toluene			0.100	0.07589		mg/Kg		76	70 - 130		
Ethylbenzene			0.100	0.08066		mg/Kg		81	70 - 130		
m,p-Xylenes			0.200	0.1736		mg/Kg		87	70 - 130		
o-Xylene			0.100	0.08820		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-48127/2-A
Matrix: Solid
Analysis Batch: 48087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48127

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08912		mg/Kg		89	70 - 130	16	35
Toluene			0.100	0.08862		mg/Kg		89	70 - 130	15	35
Ethylbenzene			0.100	0.09492		mg/Kg		95	70 - 130	16	35
m,p-Xylenes			0.200	0.2050		mg/Kg		103	70 - 130	17	35
o-Xylene			0.100	0.1029		mg/Kg		103	70 - 130	15	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

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

Lab Sample ID: MB 880-47356/1-A
Matrix: Solid
Analysis Batch: 47599

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47356

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/27/23 16:37	03/02/23 08:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/27/23 16:37	03/02/23 08:06	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/23 16:37	03/02/23 08:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*02/27/23 16:37*	*03/02/23 08:06*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*02/27/23 16:37*	*03/02/23 08:06*	*1*

Lab Sample ID: LCS 880-47356/2-A
Matrix: Solid
Analysis Batch: 47599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47356

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1047		mg/Kg		105	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

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

Lab Sample ID: LCS 880-47356/2-A
Matrix: Solid
Analysis Batch: 47599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47356

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	1126		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*109*		*70 - 130*
o-Terphenyl (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-47356/3-A
Matrix: Solid
Analysis Batch: 47599

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47356

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	912.6		mg/Kg		91	70 - 130	14	20
Diesel Range Organics (Over C10-C28)			1000	896.4	*1	mg/Kg		90	70 - 130	23	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*84*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47782/1-A
Matrix: Solid
Analysis Batch: 47846

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/05/23 16:29	1

Lab Sample ID: LCS 880-47782/2-A
Matrix: Solid
Analysis Batch: 47846

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.1		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-47782/3-A
Matrix: Solid
Analysis Batch: 47846

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	264.6		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-25192-1 MS
Matrix: Solid
Analysis Batch: 47846

Client Sample ID: SW-6 0-10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	115		252	378.0		mg/Kg		104	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-25192-1 MSD
Matrix: Solid
Analysis Batch: 47846

Client Sample ID: SW-6 0-10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	115		252	379.2		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-25192-11 MS
Matrix: Solid
Analysis Batch: 47846

Client Sample ID: SW-5 0-10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1440		2480	4148		mg/Kg		109	90 - 110

Lab Sample ID: 880-25192-11 MSD
Matrix: Solid
Analysis Batch: 47846

Client Sample ID: SW-5 0-10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1440		2480	4145		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

GC VOA

Prep Batch: 47929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-1	SW-6 0-10'	Total/NA	Solid	5035	
880-25192-2	C-66 3.5	Total/NA	Solid	5035	
880-25192-3	C-67 3.5	Total/NA	Solid	5035	
MB 880-47929/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47929/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47929/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 47994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-1	SW-6 0-10'	Total/NA	Solid	8021B	47929
880-25192-2	C-66 3.5	Total/NA	Solid	8021B	47929
880-25192-3	C-67 3.5	Total/NA	Solid	8021B	47929
MB 880-47929/5-A	Method Blank	Total/NA	Solid	8021B	47929
LCS 880-47929/1-A	Lab Control Sample	Total/NA	Solid	8021B	47929
LCSD 880-47929/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47929

Analysis Batch: 48085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-4	C-68 3.5	Total/NA	Solid	8021B	48088
880-25192-5	C-69 3.5	Total/NA	Solid	8021B	48088
880-25192-6	C-70 3.5	Total/NA	Solid	8021B	48088
MB 880-48088/5-A	Method Blank	Total/NA	Solid	8021B	48088
LCS 880-48088/1-A	Lab Control Sample	Total/NA	Solid	8021B	48088
LCSD 880-48088/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48088

Analysis Batch: 48087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-13	SW-10 0-10	Total/NA	Solid	8021B	48127
MB 880-48091/5-A	Method Blank	Total/NA	Solid	8021B	48091
MB 880-48127/5-A	Method Blank	Total/NA	Solid	8021B	48127
LCS 880-48127/1-A	Lab Control Sample	Total/NA	Solid	8021B	48127
LCSD 880-48127/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48127

Prep Batch: 48088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-4	C-68 3.5	Total/NA	Solid	5035	
880-25192-5	C-69 3.5	Total/NA	Solid	5035	
880-25192-6	C-70 3.5	Total/NA	Solid	5035	
MB 880-48088/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48088/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48088/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 48091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48091/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 48098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-7	C-71 4.5	Total/NA	Solid	8021B	48104
880-25192-8	C-73 4.5	Total/NA	Solid	8021B	48104
880-25192-9	C-75 4.5	Total/NA	Solid	8021B	48104

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

GC VOA (Continued)

Analysis Batch: 48098 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-10	C-76 4.5	Total/NA	Solid	8021B	48104
880-25192-11	SW-5 0-10	Total/NA	Solid	8021B	48104
880-25192-12	SW-9 0-10	Total/NA	Solid	8021B	48104
MB 880-48104/5-A	Method Blank	Total/NA	Solid	8021B	48104
LCS 880-48104/1-A	Lab Control Sample	Total/NA	Solid	8021B	48104
LCSD 880-48104/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48104
880-25192-7 MS	C-71 4.5	Total/NA	Solid	8021B	48104
880-25192-7 MSD	C-71 4.5	Total/NA	Solid	8021B	48104

Prep Batch: 48104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-7	C-71 4.5	Total/NA	Solid	5035	
880-25192-8	C-73 4.5	Total/NA	Solid	5035	
880-25192-9	C-75 4.5	Total/NA	Solid	5035	
880-25192-10	C-76 4.5	Total/NA	Solid	5035	
880-25192-11	SW-5 0-10	Total/NA	Solid	5035	
880-25192-12	SW-9 0-10	Total/NA	Solid	5035	
MB 880-48104/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48104/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48104/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25192-7 MS	C-71 4.5	Total/NA	Solid	5035	
880-25192-7 MSD	C-71 4.5	Total/NA	Solid	5035	

Analysis Batch: 48117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-1	SW-6 0-10'	Total/NA	Solid	Total BTEX	
880-25192-2	C-66 3.5	Total/NA	Solid	Total BTEX	
880-25192-3	C-67 3.5	Total/NA	Solid	Total BTEX	
880-25192-4	C-68 3.5	Total/NA	Solid	Total BTEX	
880-25192-5	C-69 3.5	Total/NA	Solid	Total BTEX	
880-25192-6	C-70 3.5	Total/NA	Solid	Total BTEX	
880-25192-7	C-71 4.5	Total/NA	Solid	Total BTEX	
880-25192-8	C-73 4.5	Total/NA	Solid	Total BTEX	
880-25192-9	C-75 4.5	Total/NA	Solid	Total BTEX	
880-25192-10	C-76 4.5	Total/NA	Solid	Total BTEX	
880-25192-11	SW-5 0-10	Total/NA	Solid	Total BTEX	
880-25192-12	SW-9 0-10	Total/NA	Solid	Total BTEX	
880-25192-13	SW-10 0-10	Total/NA	Solid	Total BTEX	

Prep Batch: 48127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-13	SW-10 0-10	Total/NA	Solid	5035	
MB 880-48127/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48127/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48127/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 47356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-1	SW-6 0-10'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

GC Semi VOA (Continued)

Prep Batch: 47356 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-2	C-66 3.5	Total/NA	Solid	8015NM Prep	
880-25192-3	C-67 3.5	Total/NA	Solid	8015NM Prep	
880-25192-4	C-68 3.5	Total/NA	Solid	8015NM Prep	
880-25192-5	C-69 3.5	Total/NA	Solid	8015NM Prep	
880-25192-6	C-70 3.5	Total/NA	Solid	8015NM Prep	
880-25192-7	C-71 4.5	Total/NA	Solid	8015NM Prep	
880-25192-8	C-73 4.5	Total/NA	Solid	8015NM Prep	
880-25192-9	C-75 4.5	Total/NA	Solid	8015NM Prep	
880-25192-10	C-76 4.5	Total/NA	Solid	8015NM Prep	
880-25192-11	SW-5 0-10	Total/NA	Solid	8015NM Prep	
880-25192-12	SW-9 0-10	Total/NA	Solid	8015NM Prep	
880-25192-13	SW-10 0-10	Total/NA	Solid	8015NM Prep	
MB 880-47356/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47356/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47356/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-1	SW-6 0-10'	Total/NA	Solid	8015B NM	47356
880-25192-2	C-66 3.5	Total/NA	Solid	8015B NM	47356
880-25192-3	C-67 3.5	Total/NA	Solid	8015B NM	47356
880-25192-4	C-68 3.5	Total/NA	Solid	8015B NM	47356
880-25192-5	C-69 3.5	Total/NA	Solid	8015B NM	47356
880-25192-6	C-70 3.5	Total/NA	Solid	8015B NM	47356
880-25192-7	C-71 4.5	Total/NA	Solid	8015B NM	47356
880-25192-8	C-73 4.5	Total/NA	Solid	8015B NM	47356
880-25192-9	C-75 4.5	Total/NA	Solid	8015B NM	47356
880-25192-10	C-76 4.5	Total/NA	Solid	8015B NM	47356
880-25192-11	SW-5 0-10	Total/NA	Solid	8015B NM	47356
880-25192-12	SW-9 0-10	Total/NA	Solid	8015B NM	47356
880-25192-13	SW-10 0-10	Total/NA	Solid	8015B NM	47356
MB 880-47356/1-A	Method Blank	Total/NA	Solid	8015B NM	47356
LCS 880-47356/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47356
LCSD 880-47356/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47356

Analysis Batch: 47734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-1	SW-6 0-10'	Total/NA	Solid	8015 NM	
880-25192-2	C-66 3.5	Total/NA	Solid	8015 NM	
880-25192-3	C-67 3.5	Total/NA	Solid	8015 NM	
880-25192-4	C-68 3.5	Total/NA	Solid	8015 NM	
880-25192-5	C-69 3.5	Total/NA	Solid	8015 NM	
880-25192-6	C-70 3.5	Total/NA	Solid	8015 NM	
880-25192-7	C-71 4.5	Total/NA	Solid	8015 NM	
880-25192-8	C-73 4.5	Total/NA	Solid	8015 NM	
880-25192-9	C-75 4.5	Total/NA	Solid	8015 NM	
880-25192-10	C-76 4.5	Total/NA	Solid	8015 NM	
880-25192-11	SW-5 0-10	Total/NA	Solid	8015 NM	
880-25192-12	SW-9 0-10	Total/NA	Solid	8015 NM	
880-25192-13	SW-10 0-10	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

HPLC/IC

Leach Batch: 47782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-1	SW-6 0-10'	Soluble	Solid	DI Leach	
880-25192-2	C-66 3.5	Soluble	Solid	DI Leach	
880-25192-3	C-67 3.5	Soluble	Solid	DI Leach	
880-25192-4	C-68 3.5	Soluble	Solid	DI Leach	
880-25192-5	C-69 3.5	Soluble	Solid	DI Leach	
880-25192-6	C-70 3.5	Soluble	Solid	DI Leach	
880-25192-7	C-71 4.5	Soluble	Solid	DI Leach	
880-25192-8	C-73 4.5	Soluble	Solid	DI Leach	
880-25192-9	C-75 4.5	Soluble	Solid	DI Leach	
880-25192-10	C-76 4.5	Soluble	Solid	DI Leach	
880-25192-11	SW-5 0-10	Soluble	Solid	DI Leach	
880-25192-12	SW-9 0-10	Soluble	Solid	DI Leach	
880-25192-13	SW-10 0-10	Soluble	Solid	DI Leach	
MB 880-47782/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47782/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47782/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25192-1 MS	SW-6 0-10'	Soluble	Solid	DI Leach	
880-25192-1 MSD	SW-6 0-10'	Soluble	Solid	DI Leach	
880-25192-11 MS	SW-5 0-10	Soluble	Solid	DI Leach	
880-25192-11 MSD	SW-5 0-10	Soluble	Solid	DI Leach	

Analysis Batch: 47846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25192-1	SW-6 0-10'	Soluble	Solid	300.0	47782
880-25192-2	C-66 3.5	Soluble	Solid	300.0	47782
880-25192-3	C-67 3.5	Soluble	Solid	300.0	47782
880-25192-4	C-68 3.5	Soluble	Solid	300.0	47782
880-25192-5	C-69 3.5	Soluble	Solid	300.0	47782
880-25192-6	C-70 3.5	Soluble	Solid	300.0	47782
880-25192-7	C-71 4.5	Soluble	Solid	300.0	47782
880-25192-8	C-73 4.5	Soluble	Solid	300.0	47782
880-25192-9	C-75 4.5	Soluble	Solid	300.0	47782
880-25192-10	C-76 4.5	Soluble	Solid	300.0	47782
880-25192-11	SW-5 0-10	Soluble	Solid	300.0	47782
880-25192-12	SW-9 0-10	Soluble	Solid	300.0	47782
880-25192-13	SW-10 0-10	Soluble	Solid	300.0	47782
MB 880-47782/1-A	Method Blank	Soluble	Solid	300.0	47782
LCS 880-47782/2-A	Lab Control Sample	Soluble	Solid	300.0	47782
LCSD 880-47782/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47782
880-25192-1 MS	SW-6 0-10'	Soluble	Solid	300.0	47782
880-25192-1 MSD	SW-6 0-10'	Soluble	Solid	300.0	47782
880-25192-11 MS	SW-5 0-10	Soluble	Solid	300.0	47782
880-25192-11 MSD	SW-5 0-10	Soluble	Solid	300.0	47782

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

Client Sample ID: SW-6 0-10'

Lab Sample ID: 880-25192-1
Matrix: Solid
Date Collected: 02/21/23 11:36
Date Received: 02/27/23 10:04

Prep 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	47929	03/06/23 12:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47994	03/07/23 21:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48117	03/08/23 12:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47734	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 11:42	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	47782	03/03/23 16:12	CH	EET MID
Soluble	Analysis	300.0		1			47846	03/05/23 16:44	CH	EET MID

Client Sample ID: C-66 3.5

Lab Sample ID: 880-25192-2
Matrix: Solid
Date Collected: 02/22/23 12:24
Date Received: 02/27/23 10:04

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	47929	03/06/23 12:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47994	03/07/23 21:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48117	03/08/23 12:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47734	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 12:03	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47782	03/03/23 16:12	CH	EET MID
Soluble	Analysis	300.0		1			47846	03/05/23 16:58	CH	EET MID

Client Sample ID: C-67 3.5

Lab Sample ID: 880-25192-3
Matrix: Solid
Date Collected: 02/22/23 12:26
Date Received: 02/27/23 10:04

Prep 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	47929	03/06/23 12:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47994	03/07/23 21:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48117	03/08/23 12:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47734	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 12:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47782	03/03/23 16:12	CH	EET MID
Soluble	Analysis	300.0		1			47846	03/05/23 17:03	CH	EET MID

Client Sample ID: C-68 3.5

Lab Sample ID: 880-25192-4
Matrix: Solid
Date Collected: 02/22/23 12:28
Date Received: 02/27/23 10:04

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	48088	03/08/23 09:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48085	03/08/23 18:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48117	03/09/23 14:18	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

Client Sample ID: C-68 3.5

Lab Sample ID: 880-25192-4
Matrix: Solid
Date Collected: 02/22/23 12:28
Date Received: 02/27/23 10:04

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			47734	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 12:57	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47782	03/03/23 16:12	CH	EET MID
Soluble	Analysis	300.0		1			47846	03/05/23 17:08	CH	EET MID

Client Sample ID: C-69 3.5

Lab Sample ID: 880-25192-5
Matrix: Solid
Date Collected: 02/22/23 12:30
Date Received: 02/27/23 10:04

Prep 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	48088	03/08/23 09:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48085	03/08/23 18:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48117	03/09/23 14:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47734	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 13:18	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47782	03/03/23 16:12	CH	EET MID
Soluble	Analysis	300.0		1			47846	03/05/23 17:13	CH	EET MID

Client Sample ID: C-70 3.5

Lab Sample ID: 880-25192-6
Matrix: Solid
Date Collected: 02/22/23 12:32
Date Received: 02/27/23 10:04

Prep 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	48088	03/08/23 09:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48085	03/08/23 19:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48117	03/09/23 14:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47734	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 13:40	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47782	03/03/23 16:12	CH	EET MID
Soluble	Analysis	300.0		1			47846	03/05/23 17:28	CH	EET MID

Client Sample ID: C-71 4.5

Lab Sample ID: 880-25192-7
Matrix: Solid
Date Collected: 02/23/23 13:05
Date Received: 02/27/23 10:04

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	48104	03/08/23 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48098	03/08/23 12:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48117	03/09/23 14:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47734	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 14:02	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

Client Sample ID: C-71 4.5

Date Collected: 02/23/23 13:05
Date Received: 02/27/23 10:04

Lab Sample ID: 880-25192-7
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			4.99 g	50 mL	47782	03/03/23 16:12	CH	EET MID
Soluble	Analysis	300.0		1			47846	03/05/23 17:32	CH	EET MID

Client Sample ID: C-73 4.5

Date Collected: 02/23/23 13:12
Date Received: 02/27/23 10:04

Lab Sample ID: 880-25192-8
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			4.96 g	5 mL	48104	03/08/23 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48098	03/08/23 12:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48117	03/09/23 14:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47734	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 14:25	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47782	03/03/23 16:12	CH	EET MID
Soluble	Analysis	300.0		1			47846	03/05/23 17:37	CH	EET MID

Client Sample ID: C-75 4.5

Date Collected: 02/23/23 13:16
Date Received: 02/27/23 10:04

Lab Sample ID: 880-25192-9
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			5.02 g	5 mL	48104	03/08/23 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48098	03/08/23 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48117	03/09/23 14:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47734	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 14:47	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47782	03/03/23 16:12	CH	EET MID
Soluble	Analysis	300.0		1			47846	03/05/23 17:42	CH	EET MID

Client Sample ID: C-76 4.5

Date Collected: 02/23/23 13:18
Date Received: 02/27/23 10:04

Lab Sample ID: 880-25192-10
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			5.02 g	5 mL	48104	03/08/23 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48098	03/08/23 13:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48117	03/09/23 14:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47734	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 15:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47782	03/03/23 16:12	CH	EET MID
Soluble	Analysis	300.0		1			47846	03/05/23 17:47	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

Client Sample ID: SW-5 0-10

Lab Sample ID: 880-25192-11
Matrix: Solid
Date Collected: 02/24/23 10:48
Date Received: 02/27/23 10:04

Prep 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	48104	03/08/23 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48098	03/08/23 13:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48117	03/09/23 14:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47734	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 16:20	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47782	03/03/23 16:12	CH	EET MID
Soluble	Analysis	300.0		10			47846	03/05/23 17:52	CH	EET MID

Client Sample ID: SW-9 0-10

Lab Sample ID: 880-25192-12
Matrix: Solid
Date Collected: 02/24/23 11:18
Date Received: 02/27/23 10:04

Prep 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	48104	03/08/23 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48098	03/08/23 14:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48117	03/09/23 14:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47734	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 16:43	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47782	03/03/23 16:12	CH	EET MID
Soluble	Analysis	300.0		1			47846	03/05/23 18:07	CH	EET MID

Client Sample ID: SW-10 0-10

Lab Sample ID: 880-25192-13
Matrix: Solid
Date Collected: 02/24/23 11:20
Date Received: 02/27/23 10:04

Prep 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	48127	03/08/23 13:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48087	03/09/23 11:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48117	03/09/23 13:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47734	03/03/23 12:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	47356	02/27/23 16:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47599	03/02/23 17:05	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47782	03/03/23 16:12	CH	EET MID
Soluble	Analysis	300.0		1			47846	03/05/23 18:12	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: 880-25192-1
Project/Site: Boo Radley SDG: 21-0105-08

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: 880-25192-1
Project/Site: Boo Radley SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 880-25192-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25192-1	SW-6 0-10'	Solid	02/21/23 11:36	02/27/23 10:04
880-25192-2	C-66 3.5	Solid	02/22/23 12:24	02/27/23 10:04
880-25192-3	C-67 3.5	Solid	02/22/23 12:26	02/27/23 10:04
880-25192-4	C-68 3.5	Solid	02/22/23 12:28	02/27/23 10:04
880-25192-5	C-69 3.5	Solid	02/22/23 12:30	02/27/23 10:04
880-25192-6	C-70 3.5	Solid	02/22/23 12:32	02/27/23 10:04
880-25192-7	C-71 4.5	Solid	02/23/23 13:05	02/27/23 10:04
880-25192-8	C-73 4.5	Solid	02/23/23 13:12	02/27/23 10:04
880-25192-9	C-75 4.5	Solid	02/23/23 13:16	02/27/23 10:04
880-25192-10	C-76 4.5	Solid	02/23/23 13:18	02/27/23 10:04
880-25192-11	SW-5 0-10	Solid	02/24/23 10:48	02/27/23 10:04
880-25192-12	SW-9 0-10	Solid	02/24/23 11:18	02/27/23 10:04
880-25192-13	SW-10 0-10	Solid	02/24/23 11:20	02/27/23 10:04

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25192 No. 3009

CHAIN-OF-CUSTODY

3/9/2023

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

Data Reported to

DATE 2/22/23 PAGE 1 OF 1

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-02 COLLECTOR DSG/MF

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MNT/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 ☐ | 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
SW-6 0-10'		2/22/23	1136	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
C-66 3.5		2/22/23	1224	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
C-67 3.5		2/22/23	1226	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
C-68 3.5		2/22/23	1228	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
C-69 3.5		2/22/23	1230	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
C-70 3.5		2/22/23	1232	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
C-71 4.5		2/23/23	0805	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
C-73 4.5		2/23/23	0812	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
C-75 4.5		2/23/23	0816	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
C-76 4.5		2/23/23	0818	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
SW5 0-10		2/24/23	1048	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
SW-9 0-10		2/24/23	1118	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
SW10 0-10		2/24/23	1120	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	

TOTAL 13

880-25192 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	2/27/23 1004	[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 -2.9/2.0 THERM# IR2 -30
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

Page 36 of 37

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-25192-1
SDG Number: 21-0105-08

Login Number: 25192
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 3/15/2023 3:13:29 PM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

880-25480-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 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
3/15/2023 3:13:29 PM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 880-25480-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-25480-1
Project/Site: Boo Radley SDG: 21-0105-08

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. Job ID: 880-25480-1
Project/Site: Boo Radley SDG: 21-0105-08

Job ID: 880-25480-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-25480-1

Receipt
The samples were received on 3/6/2023 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 time was 0.5°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-78 1.5 (880-25480-1), C-79 2.5 (880-25480-2), C-80 2.5 (880-25480-3), C-81 3.5 (880-25480-4), C-83 1.5 (880-25480-5), C-84 1.5 (880-25480-6), C-86 3.5 (880-25480-7), C-87 1.5 (880-25480-8), C-88 3.5 (880-25480-9), C-89 1.5 (880-25480-10), C-90 2.5 (880-25480-11), C-91 1.5 (880-25480-12), SW-1 0-10 (880-25480-13), SW-8A 0-10 (880-25480-14), SW-8B 0-10 (880-25480-15), C-77 2 (880-25480-16), C-85 4 (880-25480-17), C-82 3 (880-25480-18) and SW-8C 0-10 (880-25480-19).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-48442 and analytical batch 880-48426 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-87 1.5 (880-25480-8), C-88 3.5 (880-25480-9) and (890-4212-A-21-I). 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 880-48320 and analytical batch 880-48570 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.

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-91 1.5 (880-25480-12). 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: (880-25480-A-11-F 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 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-48164 and analytical batch 880-48171 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 880-48187 and analytical batch 880-48260 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. Job ID: 880-25480-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-78 1.5 Lab Sample ID: 880-25480-1

Date Collected: 02/28/23 13:02 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/13/23 08:00	03/13/23 19:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/13/23 08:00	03/13/23 19:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/13/23 08:00	03/13/23 19:01	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/13/23 08:00	03/13/23 19:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/13/23 08:00	03/13/23 19:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/13/23 08:00	03/13/23 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/13/23 08:00*	*03/13/23 19:01*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/13/23 08:00*	*03/13/23 19:01*	*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			03/14/23 11:05	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 11:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 11:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*03/08/23 17:03*	*03/09/23 11:40*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*03/08/23 17:03*	*03/09/23 11:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.0**	**F1**	5.04		mg/Kg			03/10/23 02:45	1

Client Sample ID: C-79 2.5 Lab Sample ID: 880-25480-2

Date Collected: 02/28/23 13:04 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/13/23 10:15	03/13/23 19:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/13/23 10:15	03/13/23 19:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/13/23 10:15	03/13/23 19:28	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/13/23 10:15	03/13/23 19:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/13/23 10:15	03/13/23 19:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/13/23 10:15	03/13/23 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/13/23 10:15*	*03/13/23 19:28*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*03/13/23 10:15*	*03/13/23 19:28*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: C-79 2.5

Date Collected: 02/28/23 13:04
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-2
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			03/14/23 11:05	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 12:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 12:45	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*03/08/23 17:03*	*03/09/23 12:45*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*03/08/23 17:03*	*03/09/23 12:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.7**		4.99		mg/Kg			03/10/23 03:04	1

Client Sample ID: C-80 2.5

Date Collected: 02/28/23 13:06
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-3
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		03/13/23 10:15	03/13/23 19:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/13/23 10:15	03/13/23 19:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/13/23 10:15	03/13/23 19:54	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		03/13/23 10:15	03/13/23 19:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/13/23 10:15	03/13/23 19:54	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/13/23 10:15	03/13/23 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/13/23 10:15*	*03/13/23 19:54*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/13/23 10:15*	*03/13/23 19:54*	*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			03/14/23 11:05	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 13:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 13:07	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25480-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-80 2.5 — Lab Sample ID: 880-25480-3

Date Collected: 02/28/23 13:06 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/08/23 17:03	03/09/23 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*03/08/23 17:03*	*03/09/23 13:07*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*03/08/23 17:03*	*03/09/23 13:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.2**		4.95		mg/Kg			03/10/23 03:10	1

Client Sample ID: C-81 3.5 — Lab Sample ID: 880-25480-4

Date Collected: 02/28/23 13:08 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/13/23 10:15	03/13/23 20:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/13/23 10:15	03/13/23 20:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/13/23 10:15	03/13/23 20:20	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/13/23 10:15	03/13/23 20:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/13/23 10:15	03/13/23 20:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/13/23 10:15	03/13/23 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/13/23 10:15*	*03/13/23 20:20*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*03/13/23 10:15*	*03/13/23 20:20*	*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			03/14/23 11:05	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 13:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 13:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*03/08/23 17:03*	*03/09/23 13:30*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*03/08/23 17:03*	*03/09/23 13:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79.9**		4.98		mg/Kg			03/10/23 03:16	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: C-83 1.5

Date Collected: 02/28/23 13:12
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-5

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		03/13/23 10:15	03/13/23 20:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/13/23 10:15	03/13/23 20:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/13/23 10:15	03/13/23 20:47	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/13/23 10:15	03/13/23 20:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/13/23 10:15	03/13/23 20:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/13/23 10:15	03/13/23 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/13/23 10:15*	*03/13/23 20:47*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/13/23 10:15*	*03/13/23 20:47*	*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			03/14/23 11:05	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 13:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 13:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*03/08/23 17:03*	*03/09/23 13:52*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*03/08/23 17:03*	*03/09/23 13:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.7**		5.00		mg/Kg			03/10/23 03:22	1

Client Sample ID: C-84 1.5

Date Collected: 02/28/23 13:14
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-6

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		03/13/23 10:15	03/13/23 21:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/13/23 10:15	03/13/23 21:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/13/23 10:15	03/13/23 21:13	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/13/23 10:15	03/13/23 21:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/13/23 10:15	03/13/23 21:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/13/23 10:15	03/13/23 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*03/13/23 10:15*	*03/13/23 21:13*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*03/13/23 10:15*	*03/13/23 21:13*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: C-84 1.5

Date Collected: 02/28/23 13:14
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-6
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			03/14/23 11:05	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 14:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 14:14	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*03/08/23 17:03*	*03/09/23 14:14*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*03/08/23 17:03*	*03/09/23 14:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.6**		4.95		mg/Kg			03/10/23 03:41	1

Client Sample ID: C-86 3.5

Date Collected: 02/28/23 13:16
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-7
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		03/13/23 10:15	03/13/23 21:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/13/23 10:15	03/13/23 21:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/13/23 10:15	03/13/23 21:39	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/13/23 10:15	03/13/23 21:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/13/23 10:15	03/13/23 21:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/13/23 10:15	03/13/23 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*03/13/23 10:15*	*03/13/23 21:39*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/13/23 10:15*	*03/13/23 21:39*	*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			03/14/23 11:05	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 14:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 14:35	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25480-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-86 3.5 — Lab Sample ID: 880-25480-7

Date Collected: 02/28/23 13:16 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/08/23 17:03	03/09/23 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*03/08/23 17:03*	*03/09/23 14:35*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*03/08/23 17:03*	*03/09/23 14:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**187**		5.01		mg/Kg			03/10/23 03:47	1

Client Sample ID: C-87 1.5 — Lab Sample ID: 880-25480-8

Date Collected: 02/28/23 13:18 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/09/23 15:25	03/14/23 02:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 15:25	03/14/23 02:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 15:25	03/14/23 02:23	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/09/23 15:25	03/14/23 02:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 15:25	03/14/23 02:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 15:25	03/14/23 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*42*	*S1-*	*70 - 130*	*03/09/23 15:25*	*03/14/23 02:23*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/09/23 15:25*	*03/14/23 02:23*	*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			03/14/23 10:47	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 14:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 14:57	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*03/08/23 17:03*	*03/09/23 14:57*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*03/08/23 17:03*	*03/09/23 14:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.9**		4.99		mg/Kg			03/10/23 03:53	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: C-88 3.5

Date Collected: 02/28/23 13:20
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-9

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		03/09/23 15:25	03/14/23 02:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/09/23 15:25	03/14/23 02:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/09/23 15:25	03/14/23 02:43	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/09/23 15:25	03/14/23 02:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/09/23 15:25	03/14/23 02:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/09/23 15:25	03/14/23 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*48*	*S1-*	*70 - 130*	*03/09/23 15:25*	*03/14/23 02:43*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*03/09/23 15:25*	*03/14/23 02:43*	*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			03/14/23 10:47	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 15:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 15:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*03/08/23 17:03*	*03/09/23 15:19*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*03/08/23 17:03*	*03/09/23 15:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**172**		4.98		mg/Kg			03/10/23 03:59	1

Client Sample ID: C-89 1.5

Date Collected: 02/28/23 13:22
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-10

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		03/09/23 15:25	03/14/23 03:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 15:25	03/14/23 03:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 15:25	03/14/23 03:04	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/09/23 15:25	03/14/23 03:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 15:25	03/14/23 03:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/09/23 15:25	03/14/23 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/09/23 15:25*	*03/14/23 03:04*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/09/23 15:25*	*03/14/23 03:04*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: C-89 1.5

Date Collected: 02/28/23 13:22
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-10

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			03/14/23 10:47	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 15:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 15:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*03/08/23 17:03*	*03/09/23 15:40*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*03/08/23 17:03*	*03/09/23 15:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.6**		4.95		mg/Kg			03/10/23 04:05	1

Client Sample ID: C-90 2.5

Date Collected: 02/28/23 13:24
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-11

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198		mg/Kg		03/10/23 12:35	03/14/23 12:05	1
Toluene	<0.00198	U F1 F2	0.00198		mg/Kg		03/10/23 12:35	03/14/23 12:05	1
Ethylbenzene	<0.00198	U F1 F2	0.00198		mg/Kg		03/10/23 12:35	03/14/23 12:05	1
m,p-Xylenes	<0.00396	U F1 F2	0.00396		mg/Kg		03/10/23 12:35	03/14/23 12:05	1
o-Xylene	<0.00198	U F1 F2	0.00198		mg/Kg		03/10/23 12:35	03/14/23 12:05	1
Xylenes, Total	<0.00396	U F1 F2	0.00396		mg/Kg		03/10/23 12:35	03/14/23 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*03/10/23 12:35*	*03/14/23 12:05*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*03/10/23 12:35*	*03/14/23 12:05*	*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			03/14/23 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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 16:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 16:46	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25480-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-90 2.5 Lab Sample ID: 880-25480-11

Date Collected: 02/28/23 13:24 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/08/23 17:03	03/09/23 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*03/08/23 17:03*	*03/09/23 16:46*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*03/08/23 17:03*	*03/09/23 16:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**164**		5.05		mg/Kg			03/10/23 04:11	1

Client Sample ID: C-91 1.5 Lab Sample ID: 880-25480-12

Date Collected: 02/28/23 13:26 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/10/23 12:35	03/14/23 12:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:35	03/14/23 12:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:35	03/14/23 12:26	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/10/23 12:35	03/14/23 12:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:35	03/14/23 12:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/10/23 12:35	03/14/23 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*47*	*S1-*	*70 - 130*	*03/10/23 12:35*	*03/14/23 12:26*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/10/23 12:35*	*03/14/23 12:26*	*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			03/14/23 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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 17:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 17:08	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*03/08/23 17:03*	*03/09/23 17:08*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*03/08/23 17:03*	*03/09/23 17:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.2**		5.00		mg/Kg			03/10/23 04:30	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25480-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: SW-1 0-10 Lab Sample ID: 880-25480-13

Date Collected: 03/01/23 13:32 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/10/23 12:35	03/14/23 16:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/10/23 12:35	03/14/23 16:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/10/23 12:35	03/14/23 16:45	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		03/10/23 12:35	03/14/23 16:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/10/23 12:35	03/14/23 16:45	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/10/23 12:35	03/14/23 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/10/23 12:35*	*03/14/23 16:45*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/10/23 12:35*	*03/14/23 16:45*	*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			03/14/23 18:21	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 17:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 17:30	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*03/08/23 17:03*	*03/09/23 17:30*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*03/08/23 17:03*	*03/09/23 17:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1070**		4.97		mg/Kg			03/10/23 04:36	1

Client Sample ID: SW-8A 0-10 Lab Sample ID: 880-25480-14

Date Collected: 03/01/23 13:36 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/10/23 12:35	03/14/23 18:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:35	03/14/23 18:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:35	03/14/23 18:09	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/10/23 12:35	03/14/23 18:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:35	03/14/23 18:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/10/23 12:35	03/14/23 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*03/10/23 12:35*	*03/14/23 18:09*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/10/23 12:35*	*03/14/23 18:09*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25480-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: SW-8A 0-10 Lab Sample ID: 880-25480-14

Date Collected: 03/01/23 13:36 **Matrix: Solid**
Date Received: 03/06/23 08:26

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			03/14/23 20:21	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 17:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 17:51	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*03/08/23 17:03*	*03/09/23 17:51*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*03/08/23 17:03*	*03/09/23 17:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**580**		4.99		mg/Kg			03/10/23 04:55	1

Client Sample ID: SW-8B 0-10 Lab Sample ID: 880-25480-15

Date Collected: 03/01/23 13:34 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/10/23 12:35	03/14/23 18:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:35	03/14/23 18:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:35	03/14/23 18:29	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/10/23 12:35	03/14/23 18:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/10/23 12:35	03/14/23 18:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/10/23 12:35	03/14/23 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/10/23 12:35*	*03/14/23 18:29*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*03/10/23 12:35*	*03/14/23 18:29*	*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			03/14/23 20:21	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 18:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 18:12	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25480-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: SW-8B 0-10 Lab Sample ID: 880-25480-15

Date Collected: 03/01/23 13:34 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/08/23 17:03	03/09/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*03/08/23 17:03*	*03/09/23 18:12*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*03/08/23 17:03*	*03/09/23 18:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**328**		4.95		mg/Kg			03/10/23 05:01	1

Client Sample ID: C-77 2 Lab Sample ID: 880-25480-16

Date Collected: 03/01/23 14:12 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/10/23 12:35	03/14/23 18:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:35	03/14/23 18:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:35	03/14/23 18:50	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/10/23 12:35	03/14/23 18:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:35	03/14/23 18:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/10/23 12:35	03/14/23 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*03/10/23 12:35*	*03/14/23 18:50*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/10/23 12:35*	*03/14/23 18:50*	*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			03/14/23 20:21	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 18:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 18:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*03/08/23 17:03*	*03/09/23 18:33*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*03/08/23 17:03*	*03/09/23 18:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1540**		24.8		mg/Kg			03/10/23 05:07	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: C-85 4

Date Collected: 03/02/23 08:32
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-17

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		03/10/23 12:35	03/14/23 19:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/10/23 12:35	03/14/23 19:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/10/23 12:35	03/14/23 19:11	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/10/23 12:35	03/14/23 19:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/10/23 12:35	03/14/23 19:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/10/23 12:35	03/14/23 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*45*	*S1-*	*70 - 130*	*03/10/23 12:35*	*03/14/23 19:11*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/10/23 12:35*	*03/14/23 19:11*	*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			03/14/23 20:21	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 18:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 18:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*03/08/23 17:03*	*03/09/23 18:54*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*03/08/23 17:03*	*03/09/23 18:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**380**		25.0		mg/Kg			03/10/23 05:13	5

Client Sample ID: C-82 3

Date Collected: 03/02/23 08:30
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-18

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		03/10/23 15:05	03/15/23 13:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/10/23 15:05	03/15/23 13:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/10/23 15:05	03/15/23 13:47	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/10/23 15:05	03/15/23 13:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/10/23 15:05	03/15/23 13:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/10/23 15:05	03/15/23 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/10/23 15:05*	*03/15/23 13:47*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/10/23 15:05*	*03/15/23 13:47*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: C-82 3

Date Collected: 03/02/23 08:30
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-18

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			03/15/23 15:50	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 19:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 19:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*03/08/23 17:03*	*03/09/23 19:16*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*03/08/23 17:03*	*03/09/23 19:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**114**		5.01		mg/Kg			03/10/23 05:19	1

Client Sample ID: SW-8C 0-10

Date Collected: 03/02/23 09:26
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-19

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		03/10/23 15:05	03/15/23 14:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/10/23 15:05	03/15/23 14:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/10/23 15:05	03/15/23 14:07	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/10/23 15:05	03/15/23 14:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/10/23 15:05	03/15/23 14:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/10/23 15:05	03/15/23 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/10/23 15:05*	*03/15/23 14:07*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/10/23 15:05*	*03/15/23 14:07*	*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			03/15/23 15:50	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			03/10/23 18:01	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		03/08/23 17:03	03/09/23 19:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 19:38	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: SW-8C 0-10
Date Collected: 03/02/23 09:26
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-19
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)	<49.9	U	49.9		mg/Kg		03/08/23 17:03	03/09/23 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*03/08/23 17:03*	*03/09/23 19:38*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*03/08/23 17:03*	*03/09/23 19:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**494**		4.99		mg/Kg			03/10/23 05:25	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

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)
880-25480-1	C-78 1.5	96	93
880-25480-2	C-79 2.5	100	96
880-25480-3	C-80 2.5	104	88
880-25480-4	C-81 3.5	94	84
880-25480-5	C-83 1.5	95	103
880-25480-6	C-84 1.5	80	78
880-25480-7	C-86 3.5	78	89
880-25480-8	C-87 1.5	42 S1-	91
880-25480-9	C-88 3.5	48 S1-	79
880-25480-10	C-89 1.5	111	98
880-25480-11	C-90 2.5	113	87
880-25480-11 MS	C-90 2.5	52 S1-	84
880-25480-11 MSD	C-90 2.5	117	97
880-25480-12	C-91 1.5	47 S1-	94
880-25480-13	SW-1 0-10	108	100
880-25480-14	SW-8A 0-10	120	95
880-25480-15	SW-8B 0-10	89	72
880-25480-16	C-77 2	118	93
880-25480-17	C-85 4	45 S1-	98
880-25480-18	C-82 3	100	92
880-25480-19	SW-8C 0-10	102	94
LCS 880-48243/1-A	Lab Control Sample	103	100
LCS 880-48320/1-A	Lab Control Sample	97	97
LCS 880-48339/1-A	Lab Control Sample	103	104
LCS 880-48442/1-A	Lab Control Sample	90	108
LCSD 880-48243/2-A	Lab Control Sample Dup	101	97
LCSD 880-48320/2-A	Lab Control Sample Dup	94	105
LCSD 880-48339/2-A	Lab Control Sample Dup	106	104
LCSD 880-48442/2-A	Lab Control Sample Dup	92	105
MB 880-48243/5-A	Method Blank	88	86
MB 880-48320/5-A	Method Blank	83	90
MB 880-48339/5-A	Method Blank	93	89
MB 880-48442/5-A	Method Blank	59 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)
880-25480-1	C-78 1.5	98	109
880-25480-1 MS	C-78 1.5	106	98
880-25480-1 MSD	C-78 1.5	105	95
880-25480-2	C-79 2.5	90	102
880-25480-3	C-80 2.5	115	124
880-25480-4	C-81 3.5	88	100

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-25480-1
Project/Site: Boo Radley SDG: 21-0105-08

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)										
880-25480-5	C-83 1.5	104	108										
880-25480-6	C-84 1.5	86	97										
880-25480-7	C-86 3.5	91	101										
880-25480-8	C-87 1.5	94	107										
880-25480-9	C-88 3.5	89	103										
880-25480-10	C-89 1.5	101	105										
880-25480-11	C-90 2.5	88	101										
880-25480-12	C-91 1.5	85	96										
880-25480-13	SW-1 0-10	90	103										
880-25480-14	SW-8A 0-10	102	108										
880-25480-15	SW-8B 0-10	88	99										
880-25480-16	C-77 2	86	99										
880-25480-17	C-85 4	87	100										
880-25480-18	C-82 3	90	103										
880-25480-19	SW-8C 0-10	101	106										
LCS 880-48164/2-A	Lab Control Sample	111	111										
LCSD 880-48164/3-A	Lab Control Sample Dup	114	114										
MB 880-48164/1-A	Method Blank	150 S1+	158 S1+										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48243/5-A
Matrix: Solid
Analysis Batch: 48520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48243

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/23 15:25	03/13/23 19:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 15:25	03/13/23 19:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 15:25	03/13/23 19:06	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/09/23 15:25	03/13/23 19:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 15:25	03/13/23 19:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/23 15:25	03/13/23 19:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*03/09/23 15:25*	*03/13/23 19:06*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*03/09/23 15:25*	*03/13/23 19:06*	*1*

Lab Sample ID: LCS 880-48243/1-A
Matrix: Solid
Analysis Batch: 48520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48243

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09888		mg/Kg		99	70 - 130		
Toluene			0.100	0.09474		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.09902		mg/Kg		99	70 - 130		
m,p-Xylenes			0.200	0.2042		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.1022		mg/Kg		102	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 880-48243/2-A
Matrix: Solid
Analysis Batch: 48520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48243

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09449		mg/Kg		94	70 - 130	5	35
Toluene			0.100	0.09481		mg/Kg		95	70 - 130	0	35
Ethylbenzene			0.100	0.09765		mg/Kg		98	70 - 130	1	35
m,p-Xylenes			0.200	0.1991		mg/Kg		100	70 - 130	3	35
o-Xylene			0.100	0.09961		mg/Kg		100	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-48320/5-A
Matrix: Solid
Analysis Batch: 48570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48320

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:35	03/14/23 11:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:35	03/14/23 11:43	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-48320/5-A
Matrix: Solid
Analysis Batch: 48570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48320

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:35	03/14/23 11:43	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/10/23 12:35	03/14/23 11:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/23 12:35	03/14/23 11:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/23 12:35	03/14/23 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*03/10/23 12:35*	*03/14/23 11:43*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/10/23 12:35*	*03/14/23 11:43*	*1*

Lab Sample ID: LCS 880-48320/1-A
Matrix: Solid
Analysis Batch: 48570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48320

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09096		mg/Kg		91	70 - 130		
Toluene			0.100	0.08633		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.08686		mg/Kg		87	70 - 130		
m,p-Xylenes			0.200	0.1794		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.09083		mg/Kg		91	70 - 130		

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

Lab Sample ID: LCSD 880-48320/2-A
Matrix: Solid
Analysis Batch: 48570

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48320

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09452		mg/Kg		95	70 - 130	4	35
Toluene			0.100	0.08623		mg/Kg		86	70 - 130	0	35
Ethylbenzene			0.100	0.08454		mg/Kg		85	70 - 130	3	35
m,p-Xylenes			0.200	0.1705		mg/Kg		85	70 - 130	5	35
o-Xylene			0.100	0.08598		mg/Kg		86	70 - 130	5	35

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

Lab Sample ID: 880-25480-11 MS
Matrix: Solid
Analysis Batch: 48570

Client Sample ID: C-90 2.5
Prep Type: Total/NA
Prep Batch: 48320

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U F1	0.0998	0.04568	F1	mg/Kg		45	70 - 130		
Toluene	<0.00198	U F1 F2	0.0998	0.04254	F1	mg/Kg		41	70 - 130		
Ethylbenzene	<0.00198	U F1 F2	0.0998	0.03566	F1	mg/Kg		36	70 - 130		
m,p-Xylenes	<0.00396	U F1 F2	0.200	0.05862	F1	mg/Kg		29	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

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

Lab Sample ID: 880-25480-11 MS
Matrix: Solid
Analysis Batch: 48570

Client Sample ID: C-90 2.5
Prep Type: Total/NA
Prep Batch: 48320

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00198	U F1 F2	0.0998	0.02939	F1	mg/Kg		29	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*52*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: 880-25480-11 MSD
Matrix: Solid
Analysis Batch: 48570

Client Sample ID: C-90 2.5
Prep Type: Total/NA
Prep Batch: 48320

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.100	0.05128	F1	mg/Kg		51	70 - 130	12	35
Toluene	<0.00198	U F1 F2	0.100	0.06096	F1 F2	mg/Kg		59	70 - 130	36	35
Ethylbenzene	<0.00198	U F1 F2	0.100	0.07369	F2	mg/Kg		74	70 - 130	70	35
m,p-Xylenes	<0.00396	U F1 F2	0.200	0.1519	F2	mg/Kg		76	70 - 130	89	35
o-Xylene	<0.00198	U F1 F2	0.100	0.07690	F2	mg/Kg		76	70 - 130	89	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-48339/5-A
Matrix: Solid
Analysis Batch: 48640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48339

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/23 15:05	03/15/23 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/23 15:05	03/15/23 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/23 15:05	03/15/23 11:56	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/10/23 15:05	03/15/23 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/23 15:05	03/15/23 11:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/23 15:05	03/15/23 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/10/23 15:05*	*03/15/23 11:56*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/10/23 15:05*	*03/15/23 11:56*	*1*

Lab Sample ID: LCS 880-48339/1-A
Matrix: Solid
Analysis Batch: 48640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48339

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1011		mg/Kg		101	70 - 130
Toluene	0.100	0.1008		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.09773		mg/Kg		98	70 - 130
m,p-Xylenes	0.200	0.2004		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09975		mg/Kg		100	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

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

Lab Sample ID: LCS 880-48339/1-A
Matrix: Solid
Analysis Batch: 48640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48339

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-48339/2-A
Matrix: Solid
Analysis Batch: 48640

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48339

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09453		mg/Kg		95	70 - 130	7	35
Toluene			0.100	0.1005		mg/Kg		101	70 - 130	0	35
Ethylbenzene			0.100	0.09562		mg/Kg		96	70 - 130	2	35
m,p-Xylenes			0.200	0.1956		mg/Kg		98	70 - 130	2	35
o-Xylene			0.100	0.09785		mg/Kg		98	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-48442/5-A
Matrix: Solid
Analysis Batch: 48426

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48442

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/13/23 08:00	03/13/23 11:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/13/23 08:00	03/13/23 11:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/13/23 08:00	03/13/23 11:59	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/13/23 08:00	03/13/23 11:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/13/23 08:00	03/13/23 11:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/13/23 08:00	03/13/23 11:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130	03/13/23 08:00	03/13/23 11:59	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/13/23 08:00	03/13/23 11:59	1

Lab Sample ID: LCS 880-48442/1-A
Matrix: Solid
Analysis Batch: 48426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48442

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.1007		mg/Kg		101	70 - 130
Toluene			0.100	0.08959		mg/Kg		90	70 - 130
Ethylbenzene			0.100	0.09671		mg/Kg		97	70 - 130
m,p-Xylenes			0.200	0.2023		mg/Kg		101	70 - 130
o-Xylene			0.100	0.09558		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

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

Lab Sample ID: LCS 880-48442/1-A
Matrix: Solid
Analysis Batch: 48426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48442

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

Lab Sample ID: LCSD 880-48442/2-A
Matrix: Solid
Analysis Batch: 48426

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48442

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1032		mg/Kg		103	70 - 130	2	35
Toluene			0.100	0.08730		mg/Kg		87	70 - 130	3	35
Ethylbenzene			0.100	0.09347		mg/Kg		93	70 - 130	3	35
m,p-Xylenes			0.200	0.1962		mg/Kg		98	70 - 130	3	35
o-Xylene			0.100	0.09363		mg/Kg		94	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-48164/1-A
Matrix: Solid
Analysis Batch: 48171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48164

Analyte		MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10		<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 08:16	1
Diesel Range Organics (Over C10-C28)		<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 08:16	1
OII Range Organics (Over C28-C36)		<50.0	U	50.0		mg/Kg		03/08/23 17:03	03/09/23 08:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	150	S1+	70 - 130	03/08/23 17:03	03/09/23 08:16	1
o-Terphenyl (Surr)	158	S1+	70 - 130	03/08/23 17:03	03/09/23 08:16	1

Lab Sample ID: LCS 880-48164/2-A
Matrix: Solid
Analysis Batch: 48171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48164

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	898.8		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1172		mg/Kg		117	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	111		70 - 130
o-Terphenyl (Surr)	111		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-48164/3-A
Matrix: Solid
Analysis Batch: 48171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48164

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1104		mg/Kg		110	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	1140		mg/Kg		114	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*114*		*70 - 130*
o-Terphenyl (Surr)	*114*		*70 - 130*

Lab Sample ID: 880-25480-1 MS
Matrix: Solid
Analysis Batch: 48171

Client Sample ID: C-78 1.5
Prep Type: Total/NA
Prep Batch: 48164

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	998	962.4		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	977.5		mg/Kg		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*106*		*70 - 130*
o-Terphenyl (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-25480-1 MSD
Matrix: Solid
Analysis Batch: 48171

Client Sample ID: C-78 1.5
Prep Type: Total/NA
Prep Batch: 48164

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	941.3		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	954.9		mg/Kg		96	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*105*		*70 - 130*
o-Terphenyl (Surr)	*95*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48187/1-A
Matrix: Solid
Analysis Batch: 48260

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/10/23 02:27	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-48187/2-A
Matrix: Solid
Analysis Batch: 48260

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	272.8		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-48187/3-A
Matrix: Solid
Analysis Batch: 48260

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	272.1		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-25480-1 MS
Matrix: Solid
Analysis Batch: 48260

Client Sample ID: C-78 1.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	53.0	F1	252	352.8	F1	mg/Kg		119	90 - 110		

Lab Sample ID: 880-25480-1 MSD
Matrix: Solid
Analysis Batch: 48260

Client Sample ID: C-78 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	53.0	F1	252	353.3	F1	mg/Kg		119	90 - 110	0	20

Lab Sample ID: 880-25480-11 MS
Matrix: Solid
Analysis Batch: 48260

Client Sample ID: C-90 2.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	164		253	440.1		mg/Kg		109	90 - 110		

Lab Sample ID: 880-25480-11 MSD
Matrix: Solid
Analysis Batch: 48260

Client Sample ID: C-90 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	164		253	439.6		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

GC VOA

Prep Batch: 48243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-8	C-87 1.5	Total/NA	Solid	5035	
880-25480-9	C-88 3.5	Total/NA	Solid	5035	
880-25480-10	C-89 1.5	Total/NA	Solid	5035	
MB 880-48243/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48243/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48243/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 48320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-11	C-90 2.5	Total/NA	Solid	5035	
880-25480-12	C-91 1.5	Total/NA	Solid	5035	
880-25480-13	SW-1 0-10	Total/NA	Solid	5035	
880-25480-14	SW-8A 0-10	Total/NA	Solid	5035	
880-25480-15	SW-8B 0-10	Total/NA	Solid	5035	
880-25480-16	C-77 2	Total/NA	Solid	5035	
880-25480-17	C-85 4	Total/NA	Solid	5035	
MB 880-48320/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48320/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48320/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25480-11 MS	C-90 2.5	Total/NA	Solid	5035	
880-25480-11 MSD	C-90 2.5	Total/NA	Solid	5035	

Prep Batch: 48339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-18	C-82 3	Total/NA	Solid	5035	
880-25480-19	SW-8C 0-10	Total/NA	Solid	5035	
MB 880-48339/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48339/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48339/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 48426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-1	C-78 1.5	Total/NA	Solid	8021B	48442
880-25480-2	C-79 2.5	Total/NA	Solid	8021B	48442
880-25480-3	C-80 2.5	Total/NA	Solid	8021B	48442
880-25480-4	C-81 3.5	Total/NA	Solid	8021B	48442
880-25480-5	C-83 1.5	Total/NA	Solid	8021B	48442
880-25480-6	C-84 1.5	Total/NA	Solid	8021B	48442
880-25480-7	C-86 3.5	Total/NA	Solid	8021B	48442
MB 880-48442/5-A	Method Blank	Total/NA	Solid	8021B	48442
LCS 880-48442/1-A	Lab Control Sample	Total/NA	Solid	8021B	48442
LCSD 880-48442/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48442

Prep Batch: 48442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-1	C-78 1.5	Total/NA	Solid	5035	
880-25480-2	C-79 2.5	Total/NA	Solid	5035	
880-25480-3	C-80 2.5	Total/NA	Solid	5035	
880-25480-4	C-81 3.5	Total/NA	Solid	5035	
880-25480-5	C-83 1.5	Total/NA	Solid	5035	
880-25480-6	C-84 1.5	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

GC VOA (Continued)

Prep Batch: 48442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-7	C-86 3.5	Total/NA	Solid	5035	
MB 880-48442/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48442/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48442/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 48520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-8	C-87 1.5	Total/NA	Solid	8021B	48243
880-25480-9	C-88 3.5	Total/NA	Solid	8021B	48243
880-25480-10	C-89 1.5	Total/NA	Solid	8021B	48243
MB 880-48243/5-A	Method Blank	Total/NA	Solid	8021B	48243
LCS 880-48243/1-A	Lab Control Sample	Total/NA	Solid	8021B	48243
LCSD 880-48243/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48243

Analysis Batch: 48570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-11	C-90 2.5	Total/NA	Solid	8021B	48320
880-25480-12	C-91 1.5	Total/NA	Solid	8021B	48320
880-25480-13	SW-1 0-10	Total/NA	Solid	8021B	48320
880-25480-14	SW-8A 0-10	Total/NA	Solid	8021B	48320
880-25480-15	SW-8B 0-10	Total/NA	Solid	8021B	48320
880-25480-16	C-77 2	Total/NA	Solid	8021B	48320
880-25480-17	C-85 4	Total/NA	Solid	8021B	48320
MB 880-48320/5-A	Method Blank	Total/NA	Solid	8021B	48320
LCS 880-48320/1-A	Lab Control Sample	Total/NA	Solid	8021B	48320
LCSD 880-48320/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48320
880-25480-11 MS	C-90 2.5	Total/NA	Solid	8021B	48320
880-25480-11 MSD	C-90 2.5	Total/NA	Solid	8021B	48320

Analysis Batch: 48579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-1	C-78 1.5	Total/NA	Solid	Total BTEX	
880-25480-2	C-79 2.5	Total/NA	Solid	Total BTEX	
880-25480-3	C-80 2.5	Total/NA	Solid	Total BTEX	
880-25480-4	C-81 3.5	Total/NA	Solid	Total BTEX	
880-25480-5	C-83 1.5	Total/NA	Solid	Total BTEX	
880-25480-6	C-84 1.5	Total/NA	Solid	Total BTEX	
880-25480-7	C-86 3.5	Total/NA	Solid	Total BTEX	
880-25480-8	C-87 1.5	Total/NA	Solid	Total BTEX	
880-25480-9	C-88 3.5	Total/NA	Solid	Total BTEX	
880-25480-10	C-89 1.5	Total/NA	Solid	Total BTEX	
880-25480-11	C-90 2.5	Total/NA	Solid	Total BTEX	
880-25480-12	C-91 1.5	Total/NA	Solid	Total BTEX	
880-25480-13	SW-1 0-10	Total/NA	Solid	Total BTEX	
880-25480-14	SW-8A 0-10	Total/NA	Solid	Total BTEX	
880-25480-15	SW-8B 0-10	Total/NA	Solid	Total BTEX	
880-25480-16	C-77 2	Total/NA	Solid	Total BTEX	
880-25480-17	C-85 4	Total/NA	Solid	Total BTEX	
880-25480-18	C-82 3	Total/NA	Solid	Total BTEX	
880-25480-19	SW-8C 0-10	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

GC VOA

Analysis Batch: 48640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-18	C-82 3	Total/NA	Solid	8021B	48339
880-25480-19	SW-8C 0-10	Total/NA	Solid	8021B	48339
MB 880-48339/5-A	Method Blank	Total/NA	Solid	8021B	48339
LCS 880-48339/1-A	Lab Control Sample	Total/NA	Solid	8021B	48339
LCSD 880-48339/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48339

GC Semi VOA

Prep Batch: 48164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-1	C-78 1.5	Total/NA	Solid	8015NM Prep	
880-25480-2	C-79 2.5	Total/NA	Solid	8015NM Prep	
880-25480-3	C-80 2.5	Total/NA	Solid	8015NM Prep	
880-25480-4	C-81 3.5	Total/NA	Solid	8015NM Prep	
880-25480-5	C-83 1.5	Total/NA	Solid	8015NM Prep	
880-25480-6	C-84 1.5	Total/NA	Solid	8015NM Prep	
880-25480-7	C-86 3.5	Total/NA	Solid	8015NM Prep	
880-25480-8	C-87 1.5	Total/NA	Solid	8015NM Prep	
880-25480-9	C-88 3.5	Total/NA	Solid	8015NM Prep	
880-25480-10	C-89 1.5	Total/NA	Solid	8015NM Prep	
880-25480-11	C-90 2.5	Total/NA	Solid	8015NM Prep	
880-25480-12	C-91 1.5	Total/NA	Solid	8015NM Prep	
880-25480-13	SW-1 0-10	Total/NA	Solid	8015NM Prep	
880-25480-14	SW-8A 0-10	Total/NA	Solid	8015NM Prep	
880-25480-15	SW-8B 0-10	Total/NA	Solid	8015NM Prep	
880-25480-16	C-77 2	Total/NA	Solid	8015NM Prep	
880-25480-17	C-85 4	Total/NA	Solid	8015NM Prep	
880-25480-18	C-82 3	Total/NA	Solid	8015NM Prep	
880-25480-19	SW-8C 0-10	Total/NA	Solid	8015NM Prep	
MB 880-48164/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48164/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48164/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25480-1 MS	C-78 1.5	Total/NA	Solid	8015NM Prep	
880-25480-1 MSD	C-78 1.5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-1	C-78 1.5	Total/NA	Solid	8015B NM	48164
880-25480-2	C-79 2.5	Total/NA	Solid	8015B NM	48164
880-25480-3	C-80 2.5	Total/NA	Solid	8015B NM	48164
880-25480-4	C-81 3.5	Total/NA	Solid	8015B NM	48164
880-25480-5	C-83 1.5	Total/NA	Solid	8015B NM	48164
880-25480-6	C-84 1.5	Total/NA	Solid	8015B NM	48164
880-25480-7	C-86 3.5	Total/NA	Solid	8015B NM	48164
880-25480-8	C-87 1.5	Total/NA	Solid	8015B NM	48164
880-25480-9	C-88 3.5	Total/NA	Solid	8015B NM	48164
880-25480-10	C-89 1.5	Total/NA	Solid	8015B NM	48164
880-25480-11	C-90 2.5	Total/NA	Solid	8015B NM	48164
880-25480-12	C-91 1.5	Total/NA	Solid	8015B NM	48164
880-25480-13	SW-1 0-10	Total/NA	Solid	8015B NM	48164
880-25480-14	SW-8A 0-10	Total/NA	Solid	8015B NM	48164

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

GC Semi VOA (Continued)

Analysis Batch: 48171 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-15	SW-8B 0-10	Total/NA	Solid	8015B NM	48164
880-25480-16	C-77 2	Total/NA	Solid	8015B NM	48164
880-25480-17	C-85 4	Total/NA	Solid	8015B NM	48164
880-25480-18	C-82 3	Total/NA	Solid	8015B NM	48164
880-25480-19	SW-8C 0-10	Total/NA	Solid	8015B NM	48164
MB 880-48164/1-A	Method Blank	Total/NA	Solid	8015B NM	48164
LCS 880-48164/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48164
LCSD 880-48164/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48164
880-25480-1 MS	C-78 1.5	Total/NA	Solid	8015B NM	48164
880-25480-1 MSD	C-78 1.5	Total/NA	Solid	8015B NM	48164

Analysis Batch: 48376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-1	C-78 1.5	Total/NA	Solid	8015 NM	
880-25480-2	C-79 2.5	Total/NA	Solid	8015 NM	
880-25480-3	C-80 2.5	Total/NA	Solid	8015 NM	
880-25480-4	C-81 3.5	Total/NA	Solid	8015 NM	
880-25480-5	C-83 1.5	Total/NA	Solid	8015 NM	
880-25480-6	C-84 1.5	Total/NA	Solid	8015 NM	
880-25480-7	C-86 3.5	Total/NA	Solid	8015 NM	
880-25480-8	C-87 1.5	Total/NA	Solid	8015 NM	
880-25480-9	C-88 3.5	Total/NA	Solid	8015 NM	
880-25480-10	C-89 1.5	Total/NA	Solid	8015 NM	
880-25480-11	C-90 2.5	Total/NA	Solid	8015 NM	
880-25480-12	C-91 1.5	Total/NA	Solid	8015 NM	
880-25480-13	SW-1 0-10	Total/NA	Solid	8015 NM	
880-25480-14	SW-8A 0-10	Total/NA	Solid	8015 NM	
880-25480-15	SW-8B 0-10	Total/NA	Solid	8015 NM	
880-25480-16	C-77 2	Total/NA	Solid	8015 NM	
880-25480-17	C-85 4	Total/NA	Solid	8015 NM	
880-25480-18	C-82 3	Total/NA	Solid	8015 NM	
880-25480-19	SW-8C 0-10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-1	C-78 1.5	Soluble	Solid	DI Leach	
880-25480-2	C-79 2.5	Soluble	Solid	DI Leach	
880-25480-3	C-80 2.5	Soluble	Solid	DI Leach	
880-25480-4	C-81 3.5	Soluble	Solid	DI Leach	
880-25480-5	C-83 1.5	Soluble	Solid	DI Leach	
880-25480-6	C-84 1.5	Soluble	Solid	DI Leach	
880-25480-7	C-86 3.5	Soluble	Solid	DI Leach	
880-25480-8	C-87 1.5	Soluble	Solid	DI Leach	
880-25480-9	C-88 3.5	Soluble	Solid	DI Leach	
880-25480-10	C-89 1.5	Soluble	Solid	DI Leach	
880-25480-11	C-90 2.5	Soluble	Solid	DI Leach	
880-25480-12	C-91 1.5	Soluble	Solid	DI Leach	
880-25480-13	SW-1 0-10	Soluble	Solid	DI Leach	
880-25480-14	SW-8A 0-10	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-25480-1
Project/Site: Boo Radley SDG: 21-0105-08

HPLC/IC (Continued)

Leach Batch: 48187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-15	SW-8B 0-10	Soluble	Solid	DI Leach	
880-25480-16	C-77 2	Soluble	Solid	DI Leach	
880-25480-17	C-85 4	Soluble	Solid	DI Leach	
880-25480-18	C-82 3	Soluble	Solid	DI Leach	
880-25480-19	SW-8C 0-10	Soluble	Solid	DI Leach	
MB 880-48187/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48187/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48187/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25480-1 MS	C-78 1.5	Soluble	Solid	DI Leach	
880-25480-1 MSD	C-78 1.5	Soluble	Solid	DI Leach	
880-25480-11 MS	C-90 2.5	Soluble	Solid	DI Leach	
880-25480-11 MSD	C-90 2.5	Soluble	Solid	DI Leach	

Analysis Batch: 48260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25480-1	C-78 1.5	Soluble	Solid	300.0	48187
880-25480-2	C-79 2.5	Soluble	Solid	300.0	48187
880-25480-3	C-80 2.5	Soluble	Solid	300.0	48187
880-25480-4	C-81 3.5	Soluble	Solid	300.0	48187
880-25480-5	C-83 1.5	Soluble	Solid	300.0	48187
880-25480-6	C-84 1.5	Soluble	Solid	300.0	48187
880-25480-7	C-86 3.5	Soluble	Solid	300.0	48187
880-25480-8	C-87 1.5	Soluble	Solid	300.0	48187
880-25480-9	C-88 3.5	Soluble	Solid	300.0	48187
880-25480-10	C-89 1.5	Soluble	Solid	300.0	48187
880-25480-11	C-90 2.5	Soluble	Solid	300.0	48187
880-25480-12	C-91 1.5	Soluble	Solid	300.0	48187
880-25480-13	SW-1 0-10	Soluble	Solid	300.0	48187
880-25480-14	SW-8A 0-10	Soluble	Solid	300.0	48187
880-25480-15	SW-8B 0-10	Soluble	Solid	300.0	48187
880-25480-16	C-77 2	Soluble	Solid	300.0	48187
880-25480-17	C-85 4	Soluble	Solid	300.0	48187
880-25480-18	C-82 3	Soluble	Solid	300.0	48187
880-25480-19	SW-8C 0-10	Soluble	Solid	300.0	48187
MB 880-48187/1-A	Method Blank	Soluble	Solid	300.0	48187
LCS 880-48187/2-A	Lab Control Sample	Soluble	Solid	300.0	48187
LCSD 880-48187/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48187
880-25480-1 MS	C-78 1.5	Soluble	Solid	300.0	48187
880-25480-1 MSD	C-78 1.5	Soluble	Solid	300.0	48187
880-25480-11 MS	C-90 2.5	Soluble	Solid	300.0	48187
880-25480-11 MSD	C-90 2.5	Soluble	Solid	300.0	48187

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: C-78 1.5

Lab Sample ID: 880-25480-1
Matrix: Solid
Date Collected: 02/28/23 13:02
Date Received: 03/06/23 08:26

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	48442	03/13/23 08:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48426	03/13/23 19:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 11:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 11:40	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 02:45	CH	EET MID

Client Sample ID: C-79 2.5

Lab Sample ID: 880-25480-2
Matrix: Solid
Date Collected: 02/28/23 13:04
Date Received: 03/06/23 08:26

Prep 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	48442	03/13/23 10:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48426	03/13/23 19:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 11:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 12:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 03:04	CH	EET MID

Client Sample ID: C-80 2.5

Lab Sample ID: 880-25480-3
Matrix: Solid
Date Collected: 02/28/23 13:06
Date Received: 03/06/23 08:26

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	48442	03/13/23 10:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48426	03/13/23 19:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 11:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 13:07	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 03:10	CH	EET MID

Client Sample ID: C-81 3.5

Lab Sample ID: 880-25480-4
Matrix: Solid
Date Collected: 02/28/23 13:08
Date Received: 03/06/23 08:26

Prep 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	48442	03/13/23 10:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48426	03/13/23 20:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 11:05	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: C-81 3.5

Lab Sample ID: 880-25480-4
Matrix: Solid
Date Collected: 02/28/23 13:08
Date Received: 03/06/23 08:26

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			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 13:30	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 03:16	CH	EET MID

Client Sample ID: C-83 1.5

Lab Sample ID: 880-25480-5
Matrix: Solid
Date Collected: 02/28/23 13:12
Date Received: 03/06/23 08:26

Prep 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	48442	03/13/23 10:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48426	03/13/23 20:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 11:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 13:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 03:22	CH	EET MID

Client Sample ID: C-84 1.5

Lab Sample ID: 880-25480-6
Matrix: Solid
Date Collected: 02/28/23 13:14
Date Received: 03/06/23 08:26

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	48442	03/13/23 10:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48426	03/13/23 21:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 11:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 14:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 03:41	CH	EET MID

Client Sample ID: C-86 3.5

Lab Sample ID: 880-25480-7
Matrix: Solid
Date Collected: 02/28/23 13:16
Date Received: 03/06/23 08:26

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	48442	03/13/23 10:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48426	03/13/23 21:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 11:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 14:35	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: C-86 3.5

Lab Sample ID: 880-25480-7
Matrix: Solid
Date Collected: 02/28/23 13:16
Date Received: 03/06/23 08:26

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	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 03:47	CH	EET MID

Client Sample ID: C-87 1.5

Lab Sample ID: 880-25480-8
Matrix: Solid
Date Collected: 02/28/23 13:18
Date Received: 03/06/23 08:26

Prep 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	48243	03/09/23 15:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48520	03/14/23 02:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 14:57	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 03:53	CH	EET MID

Client Sample ID: C-88 3.5

Lab Sample ID: 880-25480-9
Matrix: Solid
Date Collected: 02/28/23 13:20
Date Received: 03/06/23 08:26

Prep 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	48243	03/09/23 15:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48520	03/14/23 02:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 15:19	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 03:59	CH	EET MID

Client Sample ID: C-89 1.5

Lab Sample ID: 880-25480-10
Matrix: Solid
Date Collected: 02/28/23 13:22
Date Received: 03/06/23 08:26

Prep 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	48243	03/09/23 15:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48520	03/14/23 03:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 15:40	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 04:05	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: C-90 2.5

Date Collected: 02/28/23 13:24
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-11

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			5.05 g	5 mL	48320	03/10/23 12:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48570	03/14/23 12:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 16:46	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 04:11	CH	EET MID

Client Sample ID: C-91 1.5

Date Collected: 02/28/23 13:26
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-12

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			5.03 g	5 mL	48320	03/10/23 12:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48570	03/14/23 12:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 17:08	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 04:30	CH	EET MID

Client Sample ID: SW-1 0-10

Date Collected: 03/01/23 13:32
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-13

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 mL	48320	03/10/23 12:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48570	03/14/23 16:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 18:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 17:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 04:36	CH	EET MID

Client Sample ID: SW-8A 0-10

Date Collected: 03/01/23 13:36
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-14

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	48320	03/10/23 12:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48570	03/14/23 18:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 20:21	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: SW-8A 0-10

Lab Sample ID: 880-25480-14
Matrix: Solid
Date Collected: 03/01/23 13:36
Date Received: 03/06/23 08:26

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			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 17:51	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 04:55	CH	EET MID

Client Sample ID: SW-8B 0-10

Lab Sample ID: 880-25480-15
Matrix: Solid
Date Collected: 03/01/23 13:34
Date Received: 03/06/23 08:26

Prep 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	48320	03/10/23 12:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48570	03/14/23 18:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 20:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 18:12	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 05:01	CH	EET MID

Client Sample ID: C-77 2

Lab Sample ID: 880-25480-16
Matrix: Solid
Date Collected: 03/01/23 14:12
Date Received: 03/06/23 08:26

Prep 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	48320	03/10/23 12:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48570	03/14/23 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 20:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 18:33	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48260	03/10/23 05:07	CH	EET MID

Client Sample ID: C-85 4

Lab Sample ID: 880-25480-17
Matrix: Solid
Date Collected: 03/02/23 08:32
Date Received: 03/06/23 08:26

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	48320	03/10/23 12:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48570	03/14/23 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/14/23 20:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 18:54	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Client Sample ID: C-85 4

Date Collected: 03/02/23 08:32
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-17

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			5.01 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48260	03/10/23 05:13	CH	EET MID

Client Sample ID: C-82 3

Date Collected: 03/02/23 08:30
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-18

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	48339	03/10/23 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48640	03/15/23 13:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/15/23 15:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 19:16	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 05:19	CH	EET MID

Client Sample ID: SW-8C 0-10

Date Collected: 03/02/23 09:26
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25480-19

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			5.03 g	5 mL	48339	03/10/23 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48640	03/15/23 14:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48579	03/15/23 15:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			48376	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48164	03/08/23 17:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 19:38	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48187	03/09/23 09:53	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48260	03/10/23 05:25	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: 880-25480-1
Project/Site: Boo Radley SDG: 21-0105-08

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: 880-25480-1
Project/Site: Boo Radley SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 880-25480-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25480-1	C-78 1.5	Solid	02/28/23 13:02	03/06/23 08:26
880-25480-2	C-79 2.5	Solid	02/28/23 13:04	03/06/23 08:26
880-25480-3	C-80 2.5	Solid	02/28/23 13:06	03/06/23 08:26
880-25480-4	C-81 3.5	Solid	02/28/23 13:08	03/06/23 08:26
880-25480-5	C-83 1.5	Solid	02/28/23 13:12	03/06/23 08:26
880-25480-6	C-84 1.5	Solid	02/28/23 13:14	03/06/23 08:26
880-25480-7	C-86 3.5	Solid	02/28/23 13:16	03/06/23 08:26
880-25480-8	C-87 1.5	Solid	02/28/23 13:18	03/06/23 08:26
880-25480-9	C-88 3.5	Solid	02/28/23 13:20	03/06/23 08:26
880-25480-10	C-89 1.5	Solid	02/28/23 13:22	03/06/23 08:26
880-25480-11	C-90 2.5	Solid	02/28/23 13:24	03/06/23 08:26
880-25480-12	C-91 1.5	Solid	02/28/23 13:26	03/06/23 08:26
880-25480-13	SW-1 0-10	Solid	03/01/23 13:32	03/06/23 08:26
880-25480-14	SW-8A 0-10	Solid	03/01/23 13:36	03/06/23 08:26
880-25480-15	SW-8B 0-10	Solid	03/01/23 13:34	03/06/23 08:26
880-25480-16	C-77 2	Solid	03/01/23 14:12	03/06/23 08:26
880-25480-17	C-85 4	Solid	03/02/23 08:32	03/06/23 08:26
880-25480-18	C-82 3	Solid	03/02/23 08:30	03/06/23 08:26
880-25480-19	SW-8C 0-10	Solid	03/02/23 09:26	03/06/23 08:26

Released to Imaging: 1/9/2024 10:58:26 AM
Received by OCD: 7/19/2023 8:51:08 AM

25480 No. 3010

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 2-28-2023 PAGE 1 OF 2
PO# LAB WORK ORDER#
PROJECT LOCATION OR NAME Boc Radley
LAI PROJECT # 21-0105-08 COLLECTOR MF

TRRP report? ☐ Yes ☒ No

TIME ZONE
Time zone/State MNT/NM

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

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

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 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-78 1.5'		2/28/23	1302	S	1				X		X	202
C-79 2.5		2/28/23	1304	S	1				X		X	
C-80 2.5		2/28/23	1306	S	1				X		X	
C-81 3.5		2/28/23	1308	S	1				X		X	
C-83 1.5		2/28/23	1312	S	1				X		X	
C-84 1.5		2/28/23	1314	S	1				X		X	
C-86 3.5		2/28/23	1316	S	1				X		X	
C-87 1.5		2/28/23	1318	S	1				X		X	
C-88 3.5		2/28/23	1320	S	1				X		X	
C-89 1.5		2/28/23	1322	S	1				X		X	
C-90 2.5		2/28/23	1324	S	1				X		X	
C-91 1.5		2/28/23	1326	S	1				X		X	
SW-1 0-10		3/1/23	1332	S	1				X		X	
SW-8A 0-10		3/1/23	1336	S	1				X		X	
SW-8B 0-10		3/1/23	1334	S	1				X		X	
TOTAL												

880-25480 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Matthew Taylor	3/6/23 0820	
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 0.8 0.5 THERM# JPE :36
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Released to Imaging: 1/9/2024 10:58:26 AM
Received by OCD: 7/19/2023 8:51:08 AM

25480 No. 3012

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 3/1/2023 PAGE 2 OF 2

PO#: _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR MF

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-77 2		3/1/23	1412	S	1				X		X		X	X	X																										X			
C-85 4		3/2/23	0832	S	1				X		X		X	X	X																										X			
C-82 3		3/2/23	0830	S	1				X		X		X	X	X																										X			
SW-8C0-10		3/2/23	0926	S	1				X		X		X	X	X																										X			
TOTAL																																														

Loc: 880
25480

RELINQUISHED BY (Signature) Matthew Fuller DATE/TIME 3/6/23 824 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 ☐
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: 880-25480-1
SDG Number: 21-0105-08

Login Number: 25480
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 3/16/2023 5:43:10 PM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

880-25481-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 7/19/2024 10:38:20 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
3/16/2023 5:43:10 PM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 880-25481-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
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. Job ID: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

Job ID: 880-25481-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-25481-1

Receipt
The samples were received on 3/6/2023 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 time was 0.5°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BF-1 (880-25481-1), BF-2 (880-25481-2), BF-3 (880-25481-3), BF-4 (880-25481-4), BF-5 (880-25481-5), BF-6 (880-25481-6), BF-7 (880-25481-7), BF-8 (880-25481-8), BF-9 (880-25481-9), BF-10 (880-25481-10), BF-11 (880-25481-11), BF-12 (880-25481-12), BF-13 (880-25481-13), BF-14 (880-25481-14), BF-15 (880-25481-15), BF-16 (880-25481-16), BF-17 (880-25481-17), BF-18 (880-25481-18), BF-19 (880-25481-19), BF-20 (880-25481-20), BF-21 (880-25481-21) and BF-22 (880-25481-22).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48656 and analytical batch 880-48639 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.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BF-22 (880-25481-22) and (890-4236-A-1-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: BF-3 (880-25481-3) and BF-4 (880-25481-4). 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: BF-13 (880-25481-13) and BF-14 (880-25481-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: LCS biased low. Since only an acceptable LCS or LCSD is required per the method, the data has been qualified and reported.(LCS 880-48656/1-A)

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 880-48166 and analytical batch 880-48177 was outside the upper control limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-48165 and analytical batch 880-48173 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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Released to Imaging: 1/9/2024 10:58:26 AM

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-1

Date Collected: 03/03/23 11:40
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1 *-	0.00200		mg/Kg		03/15/23 10:43	03/16/23 02:10	1
Toluene	<0.00200	U F1 *-	0.00200		mg/Kg		03/15/23 10:43	03/16/23 02:10	1
Ethylbenzene	<0.00200	U F1 *-	0.00200		mg/Kg		03/15/23 10:43	03/16/23 02:10	1
m,p-Xylenes	<0.00399	U F1	0.00399		mg/Kg		03/15/23 10:43	03/16/23 02:10	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		03/15/23 10:43	03/16/23 02:10	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		03/15/23 10:43	03/16/23 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*03/15/23 10:43*	*03/16/23 02:10*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/15/23 10:43*	*03/16/23 02:10*	*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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 11:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 11:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*03/08/23 17:06*	*03/09/23 11:40*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*03/08/23 17:06*	*03/09/23 11:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**529**		24.9		mg/Kg			03/14/23 03:24	5

Client Sample ID: BF-2

Date Collected: 03/03/23 11:42
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-2

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		03/15/23 10:43	03/16/23 02:31	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		03/15/23 10:43	03/16/23 02:31	1
Ethylbenzene	<0.00202	U *-	0.00202		mg/Kg		03/15/23 10:43	03/16/23 02:31	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		03/15/23 10:43	03/16/23 02:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/15/23 10:43	03/16/23 02:31	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/15/23 10:43	03/16/23 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/15/23 10:43*	*03/16/23 02:31*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/15/23 10:43*	*03/16/23 02:31*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-2

Date Collected: 03/03/23 11:42
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-2
Matrix: Solid

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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 12:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 12:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*03/08/23 17:06*	*03/09/23 12:45*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*03/08/23 17:06*	*03/09/23 12:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**288**		25.1		mg/Kg			03/14/23 03:38	5

Client Sample ID: BF-3

Date Collected: 03/03/23 11:44
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-3
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		03/15/23 10:43	03/16/23 02:52	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 02:52	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 02:52	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 02:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/15/23 10:43	03/16/23 02:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*03/15/23 10:43*	*03/16/23 02:52*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*03/15/23 10:43*	*03/16/23 02:52*	*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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 13:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 13:07	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: BF-3 Lab Sample ID: 880-25481-3
Date Collected: 03/03/23 11:44 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/08/23 17:06	03/09/23 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*03/08/23 17:06*	*03/09/23 13:07*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*03/08/23 17:06*	*03/09/23 13:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**433**		25.3		mg/Kg			03/14/23 03:43	5

Client Sample ID: BF-4 Lab Sample ID: 880-25481-4
Date Collected: 03/03/23 11:46 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/15/23 10:43	03/16/23 03:12	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		03/15/23 10:43	03/16/23 03:12	1
Ethylbenzene	<0.00198	U *-	0.00198		mg/Kg		03/15/23 10:43	03/16/23 03:12	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		03/15/23 10:43	03/16/23 03:12	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/15/23 10:43	03/16/23 03:12	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/15/23 10:43	03/16/23 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*03/15/23 10:43*	*03/16/23 03:12*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*03/15/23 10:43*	*03/16/23 03:12*	*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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 13:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 13:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*03/08/23 17:06*	*03/09/23 13:30*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*03/08/23 17:06*	*03/09/23 13:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**253**		5.03		mg/Kg			03/14/23 03:48	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-5

Date Collected: 03/03/23 11:48
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-5

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		03/15/23 10:43	03/16/23 03:33	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		03/15/23 10:43	03/16/23 03:33	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		03/15/23 10:43	03/16/23 03:33	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/15/23 10:43	03/16/23 03:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/15/23 10:43	03/16/23 03:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/15/23 10:43	03/16/23 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*03/15/23 10:43*	*03/16/23 03:33*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*03/15/23 10:43*	*03/16/23 03:33*	*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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 13:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 13:52	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*03/08/23 17:06*	*03/09/23 13:52*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*03/08/23 17:06*	*03/09/23 13:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**371**		25.0		mg/Kg			03/14/23 03:53	5

Client Sample ID: BF-6

Date Collected: 03/03/23 11:50
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-6

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		03/15/23 10:43	03/16/23 03:54	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		03/15/23 10:43	03/16/23 03:54	1
Ethylbenzene	<0.00202	U *-	0.00202		mg/Kg		03/15/23 10:43	03/16/23 03:54	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		03/15/23 10:43	03/16/23 03:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/15/23 10:43	03/16/23 03:54	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/15/23 10:43	03/16/23 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/15/23 10:43*	*03/16/23 03:54*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*03/15/23 10:43*	*03/16/23 03:54*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: BF-6 Lab Sample ID: 880-25481-6

Date Collected: 03/03/23 11:50 **Matrix: Solid**
Date Received: 03/06/23 08:26

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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 14:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 14:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*03/08/23 17:06*	*03/09/23 14:14*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*03/08/23 17:06*	*03/09/23 14:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**197**		24.8		mg/Kg			03/14/23 04:07	5

Client Sample ID: BF-7 Lab Sample ID: 880-25481-7

Date Collected: 03/03/23 11:52 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/15/23 10:43	03/16/23 04:15	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 04:15	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 04:15	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 04:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/15/23 10:43	03/16/23 04:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/15/23 10:43*	*03/16/23 04:15*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/15/23 10:43*	*03/16/23 04:15*	*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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 14:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 14:35	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: BF-7 Lab Sample ID: 880-25481-7

Date Collected: 03/03/23 11:52 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/08/23 17:06	03/09/23 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*03/08/23 17:06*	*03/09/23 14:35*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*03/08/23 17:06*	*03/09/23 14:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**587**		24.9		mg/Kg			03/14/23 04:12	5

Client Sample ID: BF-8 Lab Sample ID: 880-25481-8

Date Collected: 03/03/23 11:54 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/15/23 10:43	03/16/23 04:35	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 04:35	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 04:35	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 04:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/15/23 10:43	03/16/23 04:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*03/15/23 10:43*	*03/16/23 04:35*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*03/15/23 10:43*	*03/16/23 04:35*	*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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 14:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 14:57	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*03/08/23 17:06*	*03/09/23 14:57*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*03/08/23 17:06*	*03/09/23 14:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**691**		25.2		mg/Kg			03/14/23 04:17	5

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: BF-9 Lab Sample ID: 880-25481-9

Date Collected: 03/03/23 11:56 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/15/23 10:43	03/16/23 04:56	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		03/15/23 10:43	03/16/23 04:56	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		03/15/23 10:43	03/16/23 04:56	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/15/23 10:43	03/16/23 04:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:43	03/16/23 04:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/15/23 10:43	03/16/23 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*03/15/23 10:43*	*03/16/23 04:56*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*03/15/23 10:43*	*03/16/23 04:56*	*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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 15:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 15:19	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*03/08/23 17:06*	*03/09/23 15:19*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*03/08/23 17:06*	*03/09/23 15:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**201**		5.02		mg/Kg			03/14/23 04:22	1

Client Sample ID: BF-10 Lab Sample ID: 880-25481-10

Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/15/23 10:43	03/16/23 05:17	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		03/15/23 10:43	03/16/23 05:17	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		03/15/23 10:43	03/16/23 05:17	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/15/23 10:43	03/16/23 05:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:43	03/16/23 05:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/15/23 10:43	03/16/23 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/15/23 10:43*	*03/16/23 05:17*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/15/23 10:43*	*03/16/23 05:17*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-10

Date Collected: 03/03/23 12:00
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-10
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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 15:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 15:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*03/08/23 17:06*	*03/09/23 15:40*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*03/08/23 17:06*	*03/09/23 15:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**288**		24.8		mg/Kg			03/14/23 04:26	5

Client Sample ID: BF-11

Date Collected: 03/03/23 12:30
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-11
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		03/15/23 10:43	03/16/23 06:41	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 06:41	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 06:41	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 06:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/15/23 10:43	03/16/23 06:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 06:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*03/15/23 10:43*	*03/16/23 06:41*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/15/23 10:43*	*03/16/23 06:41*	*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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 16:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 16:46	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: BF-11 Lab Sample ID: 880-25481-11

Date Collected: 03/03/23 12:30 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/08/23 17:06	03/09/23 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*03/08/23 17:06*	*03/09/23 16:46*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*03/08/23 17:06*	*03/09/23 16:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57.4**		5.02		mg/Kg			03/14/23 04:31	1

Client Sample ID: BF-12 Lab Sample ID: 880-25481-12

Date Collected: 03/03/23 12:32 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/15/23 10:43	03/16/23 07:01	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 07:01	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 07:01	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 07:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/15/23 10:43	03/16/23 07:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 07:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*03/15/23 10:43*	*03/16/23 07:01*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*03/15/23 10:43*	*03/16/23 07:01*	*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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 17:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 17:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*03/08/23 17:06*	*03/09/23 17:08*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*03/08/23 17:06*	*03/09/23 17:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.4**		5.00		mg/Kg			03/14/23 04:46	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-13

Date Collected: 03/03/23 12:34
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-13
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		03/15/23 10:43	03/16/23 07:22	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		03/15/23 10:43	03/16/23 07:22	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		03/15/23 10:43	03/16/23 07:22	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/15/23 10:43	03/16/23 07:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:43	03/16/23 07:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/15/23 10:43	03/16/23 07:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*57*	*S1-*	*70 - 130*	*03/15/23 10:43*	*03/16/23 07:22*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*03/15/23 10:43*	*03/16/23 07:22*	*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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 17:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 17:30	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*03/08/23 17:06*	*03/09/23 17:30*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*03/08/23 17:06*	*03/09/23 17:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.7**		4.97		mg/Kg			03/14/23 04:51	1

Client Sample ID: BF-14

Date Collected: 03/03/23 12:36
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-14
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		03/15/23 10:43	03/16/23 07:43	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		03/15/23 10:43	03/16/23 07:43	1
Ethylbenzene	<0.00198	U *-	0.00198		mg/Kg		03/15/23 10:43	03/16/23 07:43	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		03/15/23 10:43	03/16/23 07:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/15/23 10:43	03/16/23 07:43	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/15/23 10:43	03/16/23 07:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*50*	*S1-*	*70 - 130*	*03/15/23 10:43*	*03/16/23 07:43*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/15/23 10:43*	*03/16/23 07:43*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: BF-14 Lab Sample ID: 880-25481-14
Date Collected: 03/03/23 12:36 **Matrix: Solid**
Date Received: 03/06/23 08:26

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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 17:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 17:51	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*03/08/23 17:06*	*03/09/23 17:51*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*03/08/23 17:06*	*03/09/23 17:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.8**		5.02		mg/Kg			03/14/23 05:05	1

Client Sample ID: BF-15 Lab Sample ID: 880-25481-15
Date Collected: 03/03/23 12:38 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/15/23 10:43	03/16/23 08:03	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 08:03	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 08:03	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 08:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/15/23 10:43	03/16/23 08:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 08:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*03/15/23 10:43*	*03/16/23 08:03*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*03/15/23 10:43*	*03/16/23 08:03*	*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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 18:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 18:12	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: BF-15 Lab Sample ID: 880-25481-15

Date Collected: 03/03/23 12:38 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/08/23 17:06	03/09/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*03/08/23 17:06*	*03/09/23 18:12*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*03/08/23 17:06*	*03/09/23 18:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.7**		5.05		mg/Kg			03/14/23 05:10	1

Client Sample ID: BF-16 Lab Sample ID: 880-25481-16

Date Collected: 03/03/23 12:40 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/15/23 10:43	03/16/23 08:24	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 08:24	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 08:24	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 08:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/15/23 10:43	03/16/23 08:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*03/15/23 10:43*	*03/16/23 08:24*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/15/23 10:43*	*03/16/23 08:24*	*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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 18:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 18:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*03/08/23 17:06*	*03/09/23 18:33*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*03/08/23 17:06*	*03/09/23 18:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.5**		4.99		mg/Kg			03/14/23 05:15	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-17

Date Collected: 03/03/23 13:10
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-17
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		03/15/23 10:43	03/16/23 08:45	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		03/15/23 10:43	03/16/23 08:45	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		03/15/23 10:43	03/16/23 08:45	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/15/23 10:43	03/16/23 08:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:43	03/16/23 08:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/15/23 10:43	03/16/23 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*03/15/23 10:43*	*03/16/23 08:45*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/15/23 10:43*	*03/16/23 08:45*	*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			03/16/23 09:11	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 18:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 18:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*03/08/23 17:06*	*03/09/23 18:54*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*03/08/23 17:06*	*03/09/23 18:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**927**		4.96		mg/Kg			03/14/23 05:20	1

Client Sample ID: BF-18

Date Collected: 03/03/23 13:12
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-18
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		03/15/23 10:43	03/16/23 09:06	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 09:06	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 09:06	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 09:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/15/23 10:43	03/16/23 09:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 09:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*03/15/23 10:43*	*03/16/23 09:06*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*03/15/23 10:43*	*03/16/23 09:06*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-18

Date Collected: 03/03/23 13:12
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-18
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			03/16/23 18:05	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 19:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 19:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*03/08/23 17:06*	*03/09/23 19:16*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*03/08/23 17:06*	*03/09/23 19:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.7**		4.98		mg/Kg			03/14/23 05:24	1

Client Sample ID: BF-19

Date Collected: 03/03/23 13:14
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-19
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		03/15/23 10:43	03/16/23 09:26	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 09:26	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		03/15/23 10:43	03/16/23 09:26	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 09:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/15/23 10:43	03/16/23 09:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/15/23 10:43	03/16/23 09:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/15/23 10:43*	*03/16/23 09:26*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/15/23 10:43*	*03/16/23 09:26*	*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			03/16/23 18:05	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 19:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 19:38	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: BF-19 Lab Sample ID: 880-25481-19

Date Collected: 03/03/23 13:14 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/08/23 17:06	03/09/23 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*03/08/23 17:06*	*03/09/23 19:38*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*03/08/23 17:06*	*03/09/23 19:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.2**		5.01		mg/Kg			03/14/23 05:29	1

Client Sample ID: BF-20 Lab Sample ID: 880-25481-20

Date Collected: 03/03/23 13:16 **Matrix: Solid**
Date Received: 03/06/23 08:26

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		03/15/23 10:43	03/16/23 09:47	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		03/15/23 10:43	03/16/23 09:47	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		03/15/23 10:43	03/16/23 09:47	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/15/23 10:43	03/16/23 09:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:43	03/16/23 09:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/15/23 10:43	03/16/23 09:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*03/15/23 10:43*	*03/16/23 09:47*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/15/23 10:43*	*03/16/23 09:47*	*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			03/16/23 18:05	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			03/10/23 18:04	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		03/08/23 17:06	03/09/23 19:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 19:59	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/23 17:06	03/09/23 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*03/08/23 17:06*	*03/09/23 19:59*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*03/08/23 17:06*	*03/09/23 19:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.5**		5.05		mg/Kg			03/14/23 05:34	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-21

Date Collected: 03/03/23 13:18
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-21
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		03/15/23 10:45	03/16/23 01:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:45	03/16/23 01:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:45	03/16/23 01:28	1
m,p-Xylenes	<0.00401	U *1	0.00401		mg/Kg		03/15/23 10:45	03/16/23 01:28	1
o-Xylene	<0.00200	U *1	0.00200		mg/Kg		03/15/23 10:45	03/16/23 01:28	1
Xylenes, Total	<0.00401	U *1	0.00401		mg/Kg		03/15/23 10:45	03/16/23 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/15/23 10:45*	*03/16/23 01:28*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*03/15/23 10:45*	*03/16/23 01:28*	*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			03/16/23 09:18	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			03/10/23 17:58	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		03/08/23 17:08	03/09/23 16:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:08	03/09/23 16:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:08	03/09/23 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*03/08/23 17:08*	*03/09/23 16:21*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*03/08/23 17:08*	*03/09/23 16:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**317**		25.1		mg/Kg			03/11/23 11:25	5

Client Sample ID: BF-22

Date Collected: 03/03/23 13:20
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-22
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		03/15/23 10:45	03/16/23 01:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:45	03/16/23 01:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:45	03/16/23 01:48	1
m,p-Xylenes	<0.00399	U *1	0.00399		mg/Kg		03/15/23 10:45	03/16/23 01:48	1
o-Xylene	<0.00200	U *1	0.00200		mg/Kg		03/15/23 10:45	03/16/23 01:48	1
Xylenes, Total	<0.00399	U *1	0.00399		mg/Kg		03/15/23 10:45	03/16/23 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*03/15/23 10:45*	*03/16/23 01:48*	*1*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*03/15/23 10:45*	*03/16/23 01:48*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: BF-22 Lab Sample ID: 880-25481-22

Date Collected: 03/03/23 13:20 **Matrix: Solid**
Date Received: 03/06/23 08:26

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			03/16/23 09:18	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			03/10/23 17:58	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		03/08/23 17:08	03/09/23 16:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:08	03/09/23 16:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:08	03/09/23 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*03/08/23 17:08*	*03/09/23 16:43*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*03/08/23 17:08*	*03/09/23 16:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.0**		4.98		mg/Kg			03/11/23 11:44	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

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)
880-25481-1	BF-1	117	97
880-25481-1 MS	BF-1	103	92
880-25481-1 MSD	BF-1	109	90
880-25481-2	BF-2	106	91
880-25481-3	BF-3	136 S1+	115
880-25481-4	BF-4	131 S1+	112
880-25481-5	BF-5	127	105
880-25481-6	BF-6	116	84
880-25481-7	BF-7	110	100
880-25481-8	BF-8	127	107
880-25481-9	BF-9	120	105
880-25481-10	BF-10	111	95
880-25481-11	BF-11	119	93
880-25481-12	BF-12	119	106
880-25481-13	BF-13	57 S1-	69 S1-
880-25481-14	BF-14	50 S1-	100
880-25481-15	BF-15	120	104
880-25481-16	BF-16	118	101
880-25481-17	BF-17	118	101
880-25481-18	BF-18	119	106
880-25481-19	BF-19	116	95
880-25481-20	BF-20	115	109
880-25481-21	BF-21	107	73
880-25481-22	BF-22	72	67 S1-
LCS 880-48656/1-A	Lab Control Sample	110	95
LCS 880-48657/1-A	Lab Control Sample	82	95
LCSD 880-48656/2-A	Lab Control Sample Dup	108	94
LCSD 880-48657/2-A	Lab Control Sample Dup	115	133 S1+
MB 880-48332/5-A	Method Blank	84	94
MB 880-48623/39	Method Blank	85	82
MB 880-48656/5-A	Method Blank	94	85
MB 880-48657/5-A	Method Blank	71	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)
880-25481-1	BF-1	96	105
880-25481-1 MS	BF-1	115	113
880-25481-1 MSD	BF-1	120	118
880-25481-2	BF-2	113	124
880-25481-3	BF-3	114	127
880-25481-4	BF-4	96	103
880-25481-5	BF-5	98	107

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

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)										
880-25481-6	BF-6	114	124										
880-25481-7	BF-7	102	110										
880-25481-8	BF-8	117	127										
880-25481-9	BF-9	97	106										
880-25481-10	BF-10	99	108										
880-25481-11	BF-11	95	106										
880-25481-12	BF-12	92	100										
880-25481-13	BF-13	105	116										
880-25481-14	BF-14	98	107										
880-25481-15	BF-15	99	111										
880-25481-16	BF-16	110	125										
880-25481-17	BF-17	98	105										
880-25481-18	BF-18	97	107										
880-25481-19	BF-19	95	106										
880-25481-20	BF-20	106	117										
880-25481-21	BF-21	107	105										
880-25481-22	BF-22	98	89										
LCS 880-48165/2-A	Lab Control Sample	113	118										
LCS 880-48166/2-A	Lab Control Sample	108	102										
LCSD 880-48165/3-A	Lab Control Sample Dup	113	118										
LCSD 880-48166/3-A	Lab Control Sample Dup	102	97										
MB 880-48165/1-A	Method Blank	133 S1+	149 S1+										
MB 880-48166/1-A	Method Blank	143 S1+	147 S1+										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48332/5-A
Matrix: Solid
Analysis Batch: 48639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48332

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:43	03/15/23 13:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:43	03/15/23 13:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:43	03/15/23 13:23	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/10/23 14:43	03/15/23 13:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:43	03/15/23 13:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/23 14:43	03/15/23 13:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*03/10/23 14:43*	*03/15/23 13:23*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/10/23 14:43*	*03/15/23 13:23*	*1*

Lab Sample ID: MB 880-48623/39
Matrix: Solid
Analysis Batch: 48623

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			03/15/23 05:29	1
Toluene	<0.00200	U	0.00200		mg/Kg			03/15/23 05:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			03/15/23 05:29	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg			03/15/23 05:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			03/15/23 05:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			03/15/23 05:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*03/15/23 05:29*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*		*03/15/23 05:29*	*1*

Lab Sample ID: MB 880-48656/5-A
Matrix: Solid
Analysis Batch: 48639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48656

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:43	03/16/23 01:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:43	03/16/23 01:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:43	03/16/23 01:49	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/15/23 10:43	03/16/23 01:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:43	03/16/23 01:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/15/23 10:43	03/16/23 01:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/15/23 10:43*	*03/16/23 01:49*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/15/23 10:43*	*03/16/23 01:49*	*1*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

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

Lab Sample ID: LCS 880-48656/1-A
Matrix: Solid
Analysis Batch: 48639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48656

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.06331	*-	mg/Kg		63	70 - 130		
Toluene			0.100	0.06676	*-	mg/Kg		67	70 - 130		
Ethylbenzene			0.100	0.06802	*-	mg/Kg		68	70 - 130		
m,p-Xylenes			0.200	0.1404		mg/Kg		70	70 - 130		
o-Xylene			0.100	0.07429		mg/Kg		74	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-48656/2-A
Matrix: Solid
Analysis Batch: 48639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48656

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07367		mg/Kg		74	70 - 130	15	35
Toluene			0.100	0.07592		mg/Kg		76	70 - 130	13	35
Ethylbenzene			0.100	0.07702		mg/Kg		77	70 - 130	12	35
m,p-Xylenes			0.200	0.1644		mg/Kg		82	70 - 130	16	35
o-Xylene			0.100	0.08611		mg/Kg		86	70 - 130	15	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-25481-1 MS
Matrix: Solid
Analysis Batch: 48639

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 48656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1 *-	0.100	0.06079	F1	mg/Kg		61	70 - 130		
Toluene	<0.00200	U F1 *-	0.100	0.06382	F1	mg/Kg		63	70 - 130		
Ethylbenzene	<0.00200	U F1 *-	0.100	0.06614	F1	mg/Kg		66	70 - 130		
m,p-Xylenes	<0.00399	U F1	0.200	0.1384	F1	mg/Kg		69	70 - 130		
o-Xylene	<0.00200	U F1	0.100	0.07025	F1	mg/Kg		69	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 880-25481-1 MSD
Matrix: Solid
Analysis Batch: 48639

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 48656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 *-	0.101	0.07239		mg/Kg		72	70 - 130	17	35
Toluene	<0.00200	U F1 *-	0.101	0.07390		mg/Kg		73	70 - 130	15	35
Ethylbenzene	<0.00200	U F1 *-	0.101	0.08041		mg/Kg		80	70 - 130	19	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

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

Lab Sample ID: 880-25481-1 MSD
Matrix: Solid
Analysis Batch: 48639

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 48656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	<0.00399	U F1	0.202	0.1652		mg/Kg		82	70 - 130	18	35
o-Xylene	<0.00200	U F1	0.101	0.08366		mg/Kg		82	70 - 130	17	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: MB 880-48657/5-A
Matrix: Solid
Analysis Batch: 48623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48657

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:45	03/15/23 19:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:45	03/15/23 19:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:45	03/15/23 19:37	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/15/23 10:45	03/15/23 19:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/15/23 10:45	03/15/23 19:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/15/23 10:45	03/15/23 19:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*03/15/23 10:45*	*03/15/23 19:37*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*03/15/23 10:45*	*03/15/23 19:37*	*1*

Lab Sample ID: LCS 880-48657/1-A
Matrix: Solid
Analysis Batch: 48623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48657

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09788		mg/Kg		98	70 - 130		
Toluene			0.100	0.09359		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.08257		mg/Kg		83	70 - 130		
m,p-Xylenes			0.200	0.1702		mg/Kg		85	70 - 130		
o-Xylene			0.100	0.08356		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-48657/2-A
Matrix: Solid
Analysis Batch: 48623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48657

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1164		mg/Kg		116	70 - 130	17	35
Toluene			0.100	0.1094		mg/Kg		109	70 - 130	16	35
Ethylbenzene			0.100	0.1146		mg/Kg		115	70 - 130	32	35
m,p-Xylenes			0.200	0.2562	*1	mg/Kg		128	70 - 130	40	35
o-Xylene			0.100	0.1268	*1	mg/Kg		127	70 - 130	41	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130

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

Lab Sample ID: MB 880-48165/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48173 — **Prep Batch: 48165**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 08:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 08:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:06	03/09/23 08:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	133	S1+	70 - 130	03/08/23 17:06	03/09/23 08:16	1
o-Terphenyl (Surr)	149	S1+	70 - 130	03/08/23 17:06	03/09/23 08:16	1

Lab Sample ID: LCS 880-48165/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48173 — **Prep Batch: 48165**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1166		mg/Kg		117	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1205		mg/Kg		121	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	118		70 - 130

Lab Sample ID: LCSD 880-48165/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48173 — **Prep Batch: 48165**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1040		mg/Kg		104	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1191		mg/Kg		119	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	118		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

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

Lab Sample ID: 880-25481-1 MS
Matrix: Solid
Analysis Batch: 48173

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 48165

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	998	1040		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1181		mg/Kg		117	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*115*		*70 - 130*
o-Terphenyl (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-25481-1 MSD
Matrix: Solid
Analysis Batch: 48173

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 48165

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	1113		mg/Kg		107	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1225		mg/Kg		121	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*120*		*70 - 130*
o-Terphenyl (Surr)	*118*		*70 - 130*

Lab Sample ID: MB 880-48166/1-A
Matrix: Solid
Analysis Batch: 48177

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48166

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/08/23 17:08	03/09/23 08:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/23 17:08	03/09/23 08:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/23 17:08	03/09/23 08:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*143*	*S1+*	*70 - 130*	*03/08/23 17:08*	*03/09/23 08:37*	*1*
o-Terphenyl (Surr)	*147*	*S1+*	*70 - 130*	*03/08/23 17:08*	*03/09/23 08:37*	*1*

Lab Sample ID: LCS 880-48166/2-A
Matrix: Solid
Analysis Batch: 48177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	943.7		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1105		mg/Kg		110	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

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

Lab Sample ID: LCS 880-48166/2-A
Matrix: Solid
Analysis Batch: 48177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48166

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-48166/3-A
Matrix: Solid
Analysis Batch: 48177

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48166

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	997.4		mg/Kg		100	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1050		mg/Kg		105	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48097/1-A
Matrix: Solid
Analysis Batch: 48244

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/14/23 03:09	1

Lab Sample ID: LCS 880-48097/2-A
Matrix: Solid
Analysis Batch: 48244

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	274.5		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-48097/3-A
Matrix: Solid
Analysis Batch: 48244

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	272.7		mg/Kg		109	90 - 110	1	20

Lab Sample ID: 880-25481-1 MS
Matrix: Solid
Analysis Batch: 48244

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	529		1250	1868		mg/Kg		108	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-25481-1 MSD — **Client Sample ID: BF-1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 48244

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	529		1250	1871		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-25481-11 MS — **Client Sample ID: BF-11**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 48244

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	57.4		251	328.3		mg/Kg		108	90 - 110

Lab Sample ID: 880-25481-11 MSD — **Client Sample ID: BF-11**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 48244

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	57.4		251	328.1		mg/Kg		108	90 - 110	0	20

Lab Sample ID: MB 880-48100/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 48247

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/11/23 11:07	1

Lab Sample ID: LCS 880-48100/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 48247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	266.3		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-48100/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 48247

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.0		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 880-25481-21 MS — **Client Sample ID: BF-21**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 48247

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	317		1250	1635		mg/Kg		105	90 - 110

Lab Sample ID: 880-25481-21 MSD — **Client Sample ID: BF-21**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 48247

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	317		1250	1633		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

GC VOA

Prep Batch: 48332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48332/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 48623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-21	BF-21	Total/NA	Solid	8021B	48657
880-25481-22	BF-22	Total/NA	Solid	8021B	48657
MB 880-48623/39	Method Blank	Total/NA	Solid	8021B	
MB 880-48657/5-A	Method Blank	Total/NA	Solid	8021B	48657
LCS 880-48657/1-A	Lab Control Sample	Total/NA	Solid	8021B	48657
LCSD 880-48657/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48657

Analysis Batch: 48639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-1	BF-1	Total/NA	Solid	8021B	48656
880-25481-2	BF-2	Total/NA	Solid	8021B	48656
880-25481-3	BF-3	Total/NA	Solid	8021B	48656
880-25481-4	BF-4	Total/NA	Solid	8021B	48656
880-25481-5	BF-5	Total/NA	Solid	8021B	48656
880-25481-6	BF-6	Total/NA	Solid	8021B	48656
880-25481-7	BF-7	Total/NA	Solid	8021B	48656
880-25481-8	BF-8	Total/NA	Solid	8021B	48656
880-25481-9	BF-9	Total/NA	Solid	8021B	48656
880-25481-10	BF-10	Total/NA	Solid	8021B	48656
880-25481-11	BF-11	Total/NA	Solid	8021B	48656
880-25481-12	BF-12	Total/NA	Solid	8021B	48656
880-25481-13	BF-13	Total/NA	Solid	8021B	48656
880-25481-14	BF-14	Total/NA	Solid	8021B	48656
880-25481-15	BF-15	Total/NA	Solid	8021B	48656
880-25481-16	BF-16	Total/NA	Solid	8021B	48656
880-25481-17	BF-17	Total/NA	Solid	8021B	48656
880-25481-18	BF-18	Total/NA	Solid	8021B	48656
880-25481-19	BF-19	Total/NA	Solid	8021B	48656
880-25481-20	BF-20	Total/NA	Solid	8021B	48656
MB 880-48332/5-A	Method Blank	Total/NA	Solid	8021B	48332
MB 880-48656/5-A	Method Blank	Total/NA	Solid	8021B	48656
LCS 880-48656/1-A	Lab Control Sample	Total/NA	Solid	8021B	48656
LCSD 880-48656/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48656
880-25481-1 MS	BF-1	Total/NA	Solid	8021B	48656
880-25481-1 MSD	BF-1	Total/NA	Solid	8021B	48656

Prep Batch: 48656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-1	BF-1	Total/NA	Solid	5035	
880-25481-2	BF-2	Total/NA	Solid	5035	
880-25481-3	BF-3	Total/NA	Solid	5035	
880-25481-4	BF-4	Total/NA	Solid	5035	
880-25481-5	BF-5	Total/NA	Solid	5035	
880-25481-6	BF-6	Total/NA	Solid	5035	
880-25481-7	BF-7	Total/NA	Solid	5035	
880-25481-8	BF-8	Total/NA	Solid	5035	
880-25481-9	BF-9	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

GC VOA (Continued)

Prep Batch: 48656 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-10	BF-10	Total/NA	Solid	5035	
880-25481-11	BF-11	Total/NA	Solid	5035	
880-25481-12	BF-12	Total/NA	Solid	5035	
880-25481-13	BF-13	Total/NA	Solid	5035	
880-25481-14	BF-14	Total/NA	Solid	5035	
880-25481-15	BF-15	Total/NA	Solid	5035	
880-25481-16	BF-16	Total/NA	Solid	5035	
880-25481-17	BF-17	Total/NA	Solid	5035	
880-25481-18	BF-18	Total/NA	Solid	5035	
880-25481-19	BF-19	Total/NA	Solid	5035	
880-25481-20	BF-20	Total/NA	Solid	5035	
MB 880-48656/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48656/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48656/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25481-1 MS	BF-1	Total/NA	Solid	5035	
880-25481-1 MSD	BF-1	Total/NA	Solid	5035	

Prep Batch: 48657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-21	BF-21	Total/NA	Solid	5035	
880-25481-22	BF-22	Total/NA	Solid	5035	
MB 880-48657/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48657/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48657/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 48715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-1	BF-1	Total/NA	Solid	Total BTEX	
880-25481-2	BF-2	Total/NA	Solid	Total BTEX	
880-25481-3	BF-3	Total/NA	Solid	Total BTEX	
880-25481-4	BF-4	Total/NA	Solid	Total BTEX	
880-25481-5	BF-5	Total/NA	Solid	Total BTEX	
880-25481-6	BF-6	Total/NA	Solid	Total BTEX	
880-25481-7	BF-7	Total/NA	Solid	Total BTEX	
880-25481-8	BF-8	Total/NA	Solid	Total BTEX	
880-25481-9	BF-9	Total/NA	Solid	Total BTEX	
880-25481-10	BF-10	Total/NA	Solid	Total BTEX	
880-25481-11	BF-11	Total/NA	Solid	Total BTEX	
880-25481-12	BF-12	Total/NA	Solid	Total BTEX	
880-25481-13	BF-13	Total/NA	Solid	Total BTEX	
880-25481-14	BF-14	Total/NA	Solid	Total BTEX	
880-25481-15	BF-15	Total/NA	Solid	Total BTEX	
880-25481-16	BF-16	Total/NA	Solid	Total BTEX	
880-25481-17	BF-17	Total/NA	Solid	Total BTEX	
880-25481-18	BF-18	Total/NA	Solid	Total BTEX	
880-25481-19	BF-19	Total/NA	Solid	Total BTEX	
880-25481-20	BF-20	Total/NA	Solid	Total BTEX	
880-25481-21	BF-21	Total/NA	Solid	Total BTEX	
880-25481-22	BF-22	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

GC Semi VOA

Prep Batch: 48165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-1	BF-1	Total/NA	Solid	8015NM Prep	
880-25481-2	BF-2	Total/NA	Solid	8015NM Prep	
880-25481-3	BF-3	Total/NA	Solid	8015NM Prep	
880-25481-4	BF-4	Total/NA	Solid	8015NM Prep	
880-25481-5	BF-5	Total/NA	Solid	8015NM Prep	
880-25481-6	BF-6	Total/NA	Solid	8015NM Prep	
880-25481-7	BF-7	Total/NA	Solid	8015NM Prep	
880-25481-8	BF-8	Total/NA	Solid	8015NM Prep	
880-25481-9	BF-9	Total/NA	Solid	8015NM Prep	
880-25481-10	BF-10	Total/NA	Solid	8015NM Prep	
880-25481-11	BF-11	Total/NA	Solid	8015NM Prep	
880-25481-12	BF-12	Total/NA	Solid	8015NM Prep	
880-25481-13	BF-13	Total/NA	Solid	8015NM Prep	
880-25481-14	BF-14	Total/NA	Solid	8015NM Prep	
880-25481-15	BF-15	Total/NA	Solid	8015NM Prep	
880-25481-16	BF-16	Total/NA	Solid	8015NM Prep	
880-25481-17	BF-17	Total/NA	Solid	8015NM Prep	
880-25481-18	BF-18	Total/NA	Solid	8015NM Prep	
880-25481-19	BF-19	Total/NA	Solid	8015NM Prep	
880-25481-20	BF-20	Total/NA	Solid	8015NM Prep	
MB 880-48165/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48165/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48165/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25481-1 MS	BF-1	Total/NA	Solid	8015NM Prep	
880-25481-1 MSD	BF-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 48166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-21	BF-21	Total/NA	Solid	8015NM Prep	
880-25481-22	BF-22	Total/NA	Solid	8015NM Prep	
MB 880-48166/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48166/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-1	BF-1	Total/NA	Solid	8015B NM	48165
880-25481-2	BF-2	Total/NA	Solid	8015B NM	48165
880-25481-3	BF-3	Total/NA	Solid	8015B NM	48165
880-25481-4	BF-4	Total/NA	Solid	8015B NM	48165
880-25481-5	BF-5	Total/NA	Solid	8015B NM	48165
880-25481-6	BF-6	Total/NA	Solid	8015B NM	48165
880-25481-7	BF-7	Total/NA	Solid	8015B NM	48165
880-25481-8	BF-8	Total/NA	Solid	8015B NM	48165
880-25481-9	BF-9	Total/NA	Solid	8015B NM	48165
880-25481-10	BF-10	Total/NA	Solid	8015B NM	48165
880-25481-11	BF-11	Total/NA	Solid	8015B NM	48165
880-25481-12	BF-12	Total/NA	Solid	8015B NM	48165
880-25481-13	BF-13	Total/NA	Solid	8015B NM	48165
880-25481-14	BF-14	Total/NA	Solid	8015B NM	48165
880-25481-15	BF-15	Total/NA	Solid	8015B NM	48165

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

GC Semi VOA (Continued)

Analysis Batch: 48173 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-16	BF-16	Total/NA	Solid	8015B NM	48165
880-25481-17	BF-17	Total/NA	Solid	8015B NM	48165
880-25481-18	BF-18	Total/NA	Solid	8015B NM	48165
880-25481-19	BF-19	Total/NA	Solid	8015B NM	48165
880-25481-20	BF-20	Total/NA	Solid	8015B NM	48165
MB 880-48165/1-A	Method Blank	Total/NA	Solid	8015B NM	48165
LCS 880-48165/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48165
LCSD 880-48165/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48165
880-25481-1 MS	BF-1	Total/NA	Solid	8015B NM	48165
880-25481-1 MSD	BF-1	Total/NA	Solid	8015B NM	48165

Analysis Batch: 48177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-21	BF-21	Total/NA	Solid	8015B NM	48166
880-25481-22	BF-22	Total/NA	Solid	8015B NM	48166
MB 880-48166/1-A	Method Blank	Total/NA	Solid	8015B NM	48166
LCS 880-48166/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48166
LCSD 880-48166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48166

Analysis Batch: 48372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-1	BF-1	Total/NA	Solid	8015 NM	
880-25481-2	BF-2	Total/NA	Solid	8015 NM	
880-25481-3	BF-3	Total/NA	Solid	8015 NM	
880-25481-4	BF-4	Total/NA	Solid	8015 NM	
880-25481-5	BF-5	Total/NA	Solid	8015 NM	
880-25481-6	BF-6	Total/NA	Solid	8015 NM	
880-25481-7	BF-7	Total/NA	Solid	8015 NM	
880-25481-8	BF-8	Total/NA	Solid	8015 NM	
880-25481-9	BF-9	Total/NA	Solid	8015 NM	
880-25481-10	BF-10	Total/NA	Solid	8015 NM	
880-25481-11	BF-11	Total/NA	Solid	8015 NM	
880-25481-12	BF-12	Total/NA	Solid	8015 NM	
880-25481-13	BF-13	Total/NA	Solid	8015 NM	
880-25481-14	BF-14	Total/NA	Solid	8015 NM	
880-25481-15	BF-15	Total/NA	Solid	8015 NM	
880-25481-16	BF-16	Total/NA	Solid	8015 NM	
880-25481-17	BF-17	Total/NA	Solid	8015 NM	
880-25481-18	BF-18	Total/NA	Solid	8015 NM	
880-25481-19	BF-19	Total/NA	Solid	8015 NM	
880-25481-20	BF-20	Total/NA	Solid	8015 NM	
880-25481-21	BF-21	Total/NA	Solid	8015 NM	
880-25481-22	BF-22	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-1	BF-1	Soluble	Solid	DI Leach	
880-25481-2	BF-2	Soluble	Solid	DI Leach	
880-25481-3	BF-3	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

HPLC/IC (Continued)

Leach Batch: 48097 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-4	BF-4	Soluble	Solid	DI Leach	
880-25481-5	BF-5	Soluble	Solid	DI Leach	
880-25481-6	BF-6	Soluble	Solid	DI Leach	
880-25481-7	BF-7	Soluble	Solid	DI Leach	
880-25481-8	BF-8	Soluble	Solid	DI Leach	
880-25481-9	BF-9	Soluble	Solid	DI Leach	
880-25481-10	BF-10	Soluble	Solid	DI Leach	
880-25481-11	BF-11	Soluble	Solid	DI Leach	
880-25481-12	BF-12	Soluble	Solid	DI Leach	
880-25481-13	BF-13	Soluble	Solid	DI Leach	
880-25481-14	BF-14	Soluble	Solid	DI Leach	
880-25481-15	BF-15	Soluble	Solid	DI Leach	
880-25481-16	BF-16	Soluble	Solid	DI Leach	
880-25481-17	BF-17	Soluble	Solid	DI Leach	
880-25481-18	BF-18	Soluble	Solid	DI Leach	
880-25481-19	BF-19	Soluble	Solid	DI Leach	
880-25481-20	BF-20	Soluble	Solid	DI Leach	
MB 880-48097/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48097/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48097/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25481-1 MS	BF-1	Soluble	Solid	DI Leach	
880-25481-1 MSD	BF-1	Soluble	Solid	DI Leach	
880-25481-11 MS	BF-11	Soluble	Solid	DI Leach	
880-25481-11 MSD	BF-11	Soluble	Solid	DI Leach	

Leach Batch: 48100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-21	BF-21	Soluble	Solid	DI Leach	
880-25481-22	BF-22	Soluble	Solid	DI Leach	
MB 880-48100/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48100/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48100/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25481-21 MS	BF-21	Soluble	Solid	DI Leach	
880-25481-21 MSD	BF-21	Soluble	Solid	DI Leach	

Analysis Batch: 48244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-1	BF-1	Soluble	Solid	300.0	48097
880-25481-2	BF-2	Soluble	Solid	300.0	48097
880-25481-3	BF-3	Soluble	Solid	300.0	48097
880-25481-4	BF-4	Soluble	Solid	300.0	48097
880-25481-5	BF-5	Soluble	Solid	300.0	48097
880-25481-6	BF-6	Soluble	Solid	300.0	48097
880-25481-7	BF-7	Soluble	Solid	300.0	48097
880-25481-8	BF-8	Soluble	Solid	300.0	48097
880-25481-9	BF-9	Soluble	Solid	300.0	48097
880-25481-10	BF-10	Soluble	Solid	300.0	48097
880-25481-11	BF-11	Soluble	Solid	300.0	48097
880-25481-12	BF-12	Soluble	Solid	300.0	48097
880-25481-13	BF-13	Soluble	Solid	300.0	48097
880-25481-14	BF-14	Soluble	Solid	300.0	48097

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

HPLC/IC (Continued)

Analysis Batch: 48244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-15	BF-15	Soluble	Solid	300.0	48097
880-25481-16	BF-16	Soluble	Solid	300.0	48097
880-25481-17	BF-17	Soluble	Solid	300.0	48097
880-25481-18	BF-18	Soluble	Solid	300.0	48097
880-25481-19	BF-19	Soluble	Solid	300.0	48097
880-25481-20	BF-20	Soluble	Solid	300.0	48097
MB 880-48097/1-A	Method Blank	Soluble	Solid	300.0	48097
LCS 880-48097/2-A	Lab Control Sample	Soluble	Solid	300.0	48097
LCSD 880-48097/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48097
880-25481-1 MS	BF-1	Soluble	Solid	300.0	48097
880-25481-1 MSD	BF-1	Soluble	Solid	300.0	48097
880-25481-11 MS	BF-11	Soluble	Solid	300.0	48097
880-25481-11 MSD	BF-11	Soluble	Solid	300.0	48097

Analysis Batch: 48247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25481-21	BF-21	Soluble	Solid	300.0	48100
880-25481-22	BF-22	Soluble	Solid	300.0	48100
MB 880-48100/1-A	Method Blank	Soluble	Solid	300.0	48100
LCS 880-48100/2-A	Lab Control Sample	Soluble	Solid	300.0	48100
LCSD 880-48100/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48100
880-25481-21 MS	BF-21	Soluble	Solid	300.0	48100
880-25481-21 MSD	BF-21	Soluble	Solid	300.0	48100

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-1

Lab Sample ID: 880-25481-1
Matrix: Solid
Date Collected: 03/03/23 11:40
Date Received: 03/06/23 08:26

Prep 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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 02:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 11:40	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48244	03/14/23 03:24	SMC	EET MID

Client Sample ID: BF-2

Lab Sample ID: 880-25481-2
Matrix: Solid
Date Collected: 03/03/23 11:42
Date Received: 03/06/23 08:26

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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 02:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 12:45	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48244	03/14/23 03:38	SMC	EET MID

Client Sample ID: BF-3

Lab Sample ID: 880-25481-3
Matrix: Solid
Date Collected: 03/03/23 11:44
Date Received: 03/06/23 08:26

Prep 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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 02:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 13:07	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48244	03/14/23 03:43	SMC	EET MID

Client Sample ID: BF-4

Lab Sample ID: 880-25481-4
Matrix: Solid
Date Collected: 03/03/23 11:46
Date Received: 03/06/23 08:26

Prep 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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 03:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-4

Date Collected: 03/03/23 11:46
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-4

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			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 13:30	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48244	03/14/23 03:48	SMC	EET MID

Client Sample ID: BF-5

Date Collected: 03/03/23 11:48
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-5

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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 03:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 13:52	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48244	03/14/23 03:53	SMC	EET MID

Client Sample ID: BF-6

Date Collected: 03/03/23 11:50
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-6

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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 03:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 14:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48244	03/14/23 04:07	SMC	EET MID

Client Sample ID: BF-7

Date Collected: 03/03/23 11:52
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-7

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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 04:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 14:35	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-7

Date Collected: 03/03/23 11:52
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-7

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			5.03 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48244	03/14/23 04:12	SMC	EET MID

Client Sample ID: BF-8

Date Collected: 03/03/23 11:54
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-8

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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 04:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 14:57	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48244	03/14/23 04:17	SMC	EET MID

Client Sample ID: BF-9

Date Collected: 03/03/23 11:56
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-9

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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 04:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 15:19	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48244	03/14/23 04:22	SMC	EET MID

Client Sample ID: BF-10

Date Collected: 03/03/23 12:00
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-10

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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 05:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 15:40	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48244	03/14/23 04:26	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-11

Date Collected: 03/03/23 12:30
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-11

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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 06:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 16:46	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48244	03/14/23 04:31	SMC	EET MID

Client Sample ID: BF-12

Date Collected: 03/03/23 12:32
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-12

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			5.03 g	5 mL	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 07:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 17:08	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48244	03/14/23 04:46	SMC	EET MID

Client Sample ID: BF-13

Date Collected: 03/03/23 12:34
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-13

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			5.01 g	5 mL	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 07:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 17:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48244	03/14/23 04:51	SMC	EET MID

Client Sample ID: BF-14

Date Collected: 03/03/23 12:36
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-14

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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 07:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-14

Date Collected: 03/03/23 12:36
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-14

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			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 17:51	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48244	03/14/23 05:05	SMC	EET MID

Client Sample ID: BF-15

Date Collected: 03/03/23 12:38
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-15

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			5.03 g	5 mL	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 08:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 18:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48244	03/14/23 05:10	SMC	EET MID

Client Sample ID: BF-16

Date Collected: 03/03/23 12:40
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-16

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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 08:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 18:33	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48244	03/14/23 05:15	SMC	EET MID

Client Sample ID: BF-17

Date Collected: 03/03/23 13:10
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-17

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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 08:45	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 18:54	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-17
Date Collected: 03/03/23 13:10
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48244	03/14/23 05:20	SMC	EET MID

Client Sample ID: BF-18
Date Collected: 03/03/23 13:12
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-18
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	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 09:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 18:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 19:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48244	03/14/23 05:24	SMC	EET MID

Client Sample ID: BF-19
Date Collected: 03/03/23 13:14
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-19
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			5.03 g	5 mL	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 09:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 18:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 19:38	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48244	03/14/23 05:29	SMC	EET MID

Client Sample ID: BF-20
Date Collected: 03/03/23 13:16
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-20
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			5.01 g	5 mL	48656	03/15/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/16/23 09:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 18:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48165	03/08/23 17:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/09/23 19:59	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	48097	03/08/23 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48244	03/14/23 05:34	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Client Sample ID: BF-21

Date Collected: 03/03/23 13:18
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-21

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			4.99 g	5 mL	48657	03/15/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/16/23 01:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 16:21	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48100	03/08/23 09:44	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48247	03/11/23 11:25	SMC	EET MID

Client Sample ID: BF-22

Date Collected: 03/03/23 13:20
Date Received: 03/06/23 08:26

Lab Sample ID: 880-25481-22

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	48657	03/15/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/16/23 01:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48715	03/16/23 09:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			48372	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 16:43	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48100	03/08/23 09:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48247	03/11/23 11:44	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: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

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: 880-25481-1
Project/Site: Boo Radley SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 880-25481-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25481-1	BF-1	Solid	03/03/23 11:40	03/06/23 08:26
880-25481-2	BF-2	Solid	03/03/23 11:42	03/06/23 08:26
880-25481-3	BF-3	Solid	03/03/23 11:44	03/06/23 08:26
880-25481-4	BF-4	Solid	03/03/23 11:46	03/06/23 08:26
880-25481-5	BF-5	Solid	03/03/23 11:48	03/06/23 08:26
880-25481-6	BF-6	Solid	03/03/23 11:50	03/06/23 08:26
880-25481-7	BF-7	Solid	03/03/23 11:52	03/06/23 08:26
880-25481-8	BF-8	Solid	03/03/23 11:54	03/06/23 08:26
880-25481-9	BF-9	Solid	03/03/23 11:56	03/06/23 08:26
880-25481-10	BF-10	Solid	03/03/23 12:00	03/06/23 08:26
880-25481-11	BF-11	Solid	03/03/23 12:30	03/06/23 08:26
880-25481-12	BF-12	Solid	03/03/23 12:32	03/06/23 08:26
880-25481-13	BF-13	Solid	03/03/23 12:34	03/06/23 08:26
880-25481-14	BF-14	Solid	03/03/23 12:36	03/06/23 08:26
880-25481-15	BF-15	Solid	03/03/23 12:38	03/06/23 08:26
880-25481-16	BF-16	Solid	03/03/23 12:40	03/06/23 08:26
880-25481-17	BF-17	Solid	03/03/23 13:10	03/06/23 08:26
880-25481-18	BF-18	Solid	03/03/23 13:12	03/06/23 08:26
880-25481-19	BF-19	Solid	03/03/23 13:14	03/06/23 08:26
880-25481-20	BF-20	Solid	03/03/23 13:16	03/06/23 08:26
880-25481-21	BF-21	Solid	03/03/23 13:18	03/06/23 08:26
880-25481-22	BF-22	Solid	03/03/23 13:20	03/06/23 08:26

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25481 No. 3013

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 3/3/2023 PAGE 1 OF 2
PO# LAB WORK ORDER#
PROJECT LOCATION OR NAME Boo Radley
LAI PROJECT # 21-0105-08 COLLECTOR Matthew Fuller

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 ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
BF-1		3/3/23	1140	S	1				X		X			X	X	X																										X			202
BF-2		3/3/23	1142	S	1				X		X			X	X	X																										X			
BF-3		3/3/23	1144	S	1				X		X			X	X	X																										X			
BF-4		3/3/23	1146	S	1				X		X			X	X	X																										X			
BF-5		3/3/23	1148	S	1				X		X			X	X	X																										X			
BF-6		3/3/23	1150	S	1				X		X			X	X	X																										X			
BF-7		3/3/23	1152	S	1				X		X			X	X	X																										X			
BF-8		3/3/23	1154	S	1				X		X			X	X	X																										X			
BF-9		3/3/23	1156	S	1				X		X			X	X	X																										X			
BF-10		3/3/23	1200	S	1				X		X			X	X	X																										X			
BF-11		3/3/23	1230	S	1				X		X			X	X	X																										X			
BF-12		3/3/23	1232	S	1				X		X			X	X	X																										X			
BF-13		3/3/23	1234	S	1				X		X			X	X	X																										X			
BF-14		3/3/23	1236	S	1				X		X			X	X	X																										X			
BF-15		3/3/23	1238	S	1				X		X			X	X	X																										X			
TOTAL																																														

880-25481 Chain of Custody

RELINQUISHED BY (Signature) Matthew Fuller DATE/TIME 3/6/23 0820 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 ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 0.8|0.5 THERM# IR8-30
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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25481 No. 3014

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 3/3/2023 PAGE 2 OF 2
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME Boo Radley
LAI PROJECT # 21-0105-05 COLLECTOR Matthew Fuller

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MNT/MM

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
BF-16		3/3/23	1240	S	1				X		X		X	X	X												X		
BF-17		3/3/23	1310	S	1				X		X		X	X	X												X		
BF-18		3/3/23	1312	S	1				X		X		X	X	X												X		
BF-19		3/3/23	1314	S	1				X		X		X	X	X												X		
BF-20		3/3/23	1316	S	1				X		X		X	X	X												X		
BF-21		3/3/23	1318	S	1				X		X		X	X	X												X		
BF-22		3/3/23	1320	S	1				X		X		X	X	X												X		
TOTAL																													

Loc: 880
25481

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Matthew Fuller	3/6/23	826
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 _____ THERM# _____
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-25481-1
SDG Number: 21-0105-08

Login Number: 25481
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 3/26/2023 7:48:09 AM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

890-4311-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 7/19/2024 10:58:20 AM

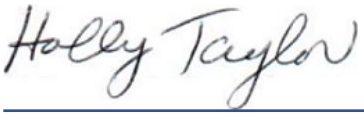
my EOL

Eurofins Carlsbad

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
3/26/2023 7:48:09 AM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 890-4311-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-4311-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

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

GC Semi 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.

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. Job ID: 890-4311-1
Project/Site: Boo Radley SDG: 21-0105-08

Job ID: 890-4311-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4311-1

Receipt
The sample was received on 3/14/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SW-22C 0-4 (890-4311-1).

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 880-48884 and analytical batch 880-48908 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-48884/2-A) and (LCSD 880-48884/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-48884 and analytical batch 880-48908 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.

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.

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4311-1
SDG: 21-0105-08

Client Sample ID: SW-22C 0-4

Date Collected: 03/14/23 13:30
Date Received: 03/14/23 16:45

Lab Sample ID: 890-4311-1

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		03/23/23 13:25	03/24/23 21:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/23/23 13:25	03/24/23 21:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/23/23 13:25	03/24/23 21:38	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/23/23 13:25	03/24/23 21:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/23/23 13:25	03/24/23 21:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/23/23 13:25	03/24/23 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*03/23/23 13:25*	*03/24/23 21:38*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/23/23 13:25*	*03/24/23 21:38*	*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			03/25/23 16:16	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			03/22/23 17:19	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		03/18/23 09:50	03/19/23 18:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		03/18/23 09:50	03/19/23 18:45	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/18/23 09:50	03/19/23 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*03/18/23 09:50*	*03/19/23 18:45*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*03/18/23 09:50*	*03/19/23 18:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1120**		4.97		mg/Kg			03/20/23 17:01	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4311-1
SDG: 21-0105-08

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)
890-4311-1	SW-22C 0-4	113	103
LCS 880-49331/1-A	Lab Control Sample	110	110
LCSD 880-49331/2-A	Lab Control Sample Dup	114	110
MB 880-49331/5-A	Method Blank	101	100

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)
890-4311-1	SW-22C 0-4	90	103
LCS 880-48884/2-A	Lab Control Sample	143 S1+	172 S1+
LCSD 880-48884/3-A	Lab Control Sample Dup	170 S1+	196 S1+
MB 880-48884/1-A	Method Blank	119	138 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4311-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49331/5-A
Matrix: Solid
Analysis Batch: 49375

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49331

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/23 13:25	03/24/23 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/23 13:25	03/24/23 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/23 13:25	03/24/23 12:35	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/23/23 13:25	03/24/23 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/23 13:25	03/24/23 12:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/23/23 13:25	03/24/23 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/23/23 13:25*	*03/24/23 12:35*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/23/23 13:25*	*03/24/23 12:35*	*1*

Lab Sample ID: LCS 880-49331/1-A
Matrix: Solid
Analysis Batch: 49375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49331

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1018		mg/Kg		102	70 - 130		
Toluene			0.100	0.09887		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.08829		mg/Kg		88	70 - 130		
m,p-Xylenes			0.200	0.1746		mg/Kg		87	70 - 130		
o-Xylene			0.100	0.09060		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 880-49331/2-A
Matrix: Solid
Analysis Batch: 49375

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49331

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1088		mg/Kg		109	70 - 130	7	35
Toluene			0.100	0.1074		mg/Kg		107	70 - 130	8	35
Ethylbenzene			0.100	0.09586		mg/Kg		96	70 - 130	8	35
m,p-Xylenes			0.200	0.1907		mg/Kg		95	70 - 130	9	35
o-Xylene			0.100	0.09659		mg/Kg		97	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4311-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-48884/1-A
Matrix: Solid
Analysis Batch: 48908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48884

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/18/23 09:50	03/19/23 08:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/23 09:50	03/19/23 08:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/23 09:50	03/19/23 08:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*03/18/23 09:50*	*03/19/23 08:52*	*1*
o-Terphenyl (Surr)	*138*	*S1+*	*70 - 130*	*03/18/23 09:50*	*03/19/23 08:52*	*1*

Lab Sample ID: LCS 880-48884/2-A
Matrix: Solid
Analysis Batch: 48908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48884

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1075		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1126		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*143*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*172*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-48884/3-A
Matrix: Solid
Analysis Batch: 48908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48884

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1003		mg/Kg		100	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1352	*+	mg/Kg		135	70 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*170*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*196*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48890/1-A
Matrix: Solid
Analysis Batch: 49133

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/20/23 14:19	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4311-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-48890/2-A
Matrix: Solid
Analysis Batch: 49133

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.6		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-48890/3-A
Matrix: Solid
Analysis Batch: 49133

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	257.6		mg/Kg		103	90 - 110	2	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4311-1
SDG: 21-0105-08

GC VOA

Prep Batch: 49331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4311-1	SW-22C 0-4	Total/NA	Solid	5035	
MB 880-49331/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49331/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49331/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 49375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4311-1	SW-22C 0-4	Total/NA	Solid	8021B	49331
MB 880-49331/5-A	Method Blank	Total/NA	Solid	8021B	49331
LCS 880-49331/1-A	Lab Control Sample	Total/NA	Solid	8021B	49331
LCSD 880-49331/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49331

Analysis Batch: 49494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4311-1	SW-22C 0-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4311-1	SW-22C 0-4	Total/NA	Solid	8015NM Prep	
MB 880-48884/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48884/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48884/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4311-1	SW-22C 0-4	Total/NA	Solid	8015B NM	48884
MB 880-48884/1-A	Method Blank	Total/NA	Solid	8015B NM	48884
LCS 880-48884/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48884
LCSD 880-48884/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48884

Analysis Batch: 49256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4311-1	SW-22C 0-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4311-1	SW-22C 0-4	Soluble	Solid	DI Leach	
MB 880-48890/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48890/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48890/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 49133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4311-1	SW-22C 0-4	Soluble	Solid	300.0	48890
MB 880-48890/1-A	Method Blank	Soluble	Solid	300.0	48890
LCS 880-48890/2-A	Lab Control Sample	Soluble	Solid	300.0	48890
LCSD 880-48890/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48890

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4311-1
SDG: 21-0105-08

Client Sample ID: SW-22C 0-4
Date Collected: 03/14/23 13:30
Date Received: 03/14/23 16:45

Lab Sample ID: 890-4311-1
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	49331	03/23/23 13:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49375	03/24/23 21:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49494	03/25/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49256	03/22/23 17:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48884	03/18/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48908	03/19/23 18:45	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48890	03/18/23 15:24	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49133	03/20/23 17:01	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.
Project/Site: Boo Radley

Job ID: 890-4311-1
SDG: 21-0105-08

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: 890-4311-1
Project/Site: Boo Radley SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 890-4311-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4311-1	SW-22C 0-4	Solid	03/14/23 13:30	03/14/23 16:45

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No. 2951

CHAIN-OF-CUSTODY

3/26/2023

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

Data Reported to:

DATE: _____ PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: ~~[redacted]~~ BOO RADLEY

LAI PROJECT #: 21-010.5 COLLECTOR: S. BATES

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 ☐	CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
SV1-22c 04		3/14/23	1:30	S	1				X		X	X	X	X															X	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-4311-1
SDG Number: 21-0105-08

Login Number: 4311
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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?	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.	N/A	Refer to Job Narrative for details.
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: 890-4311-1
SDG Number: 21-0105-08

Login Number: 4311
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/16/23 10:28 AM

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 3/28/2023 9:38:24 AM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

890-4326-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 7/19/2024 10:38:20 AM

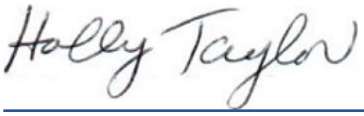
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Eurofins Carlsbad

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
3/28/2023 9:38:24 AM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 890-4326-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-4326-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
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: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

Job ID: 890-4326-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4326-1

Receipt
The samples were received on 3/15/2023 4:36 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 1.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-2 0-10 (890-4326-1), SW-3a 0-10 (890-4326-2), SW-3b 0-10 (890-4326-3), SW-3c 0-10 (890-4326-4), SW-5a 0-10 (890-4326-5), SW-5b 0-10 (890-4326-6) and SW-5c 0-10 (890-4326-7).

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

GC Semi VOA
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: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

Client Sample ID: SW-2 0-10

Lab Sample ID: 890-4326-1
Matrix: Solid
Date Collected: 03/15/23 10:45
Date Received: 03/15/23 16:36

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		03/24/23 13:17	03/28/23 07:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 07:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 07:03	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/24/23 13:17	03/28/23 07:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 07:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/24/23 13:17	03/28/23 07:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/24/23 13:17*	*03/28/23 07:03*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*03/24/23 13:17*	*03/28/23 07:03*	*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			03/28/23 10:21	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			03/22/23 16:11	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		03/20/23 14:02	03/22/23 02:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/23 14:02	03/22/23 02:58	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/23 14:02	03/22/23 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*03/20/23 14:02*	*03/22/23 02:58*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*03/20/23 14:02*	*03/22/23 02:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**782**		4.99		mg/Kg			03/22/23 20:19	1

Client Sample ID: SW-3a 0-10

Lab Sample ID: 890-4326-2
Matrix: Solid
Date Collected: 03/15/23 11:10
Date Received: 03/15/23 16:36

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		03/24/23 13:17	03/28/23 07:24	1
Toluene	**0.00252**		0.00201		mg/Kg		03/24/23 13:17	03/28/23 07:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/24/23 13:17	03/28/23 07:24	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/24/23 13:17	03/28/23 07:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/24/23 13:17	03/28/23 07:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/24/23 13:17	03/28/23 07:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/24/23 13:17*	*03/28/23 07:24*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/24/23 13:17*	*03/28/23 07:24*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4326-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: SW-3a 0-10 Lab Sample ID: 890-4326-2

Date Collected: 03/15/23 11:10 **Matrix: Solid**
Date Received: 03/15/23 16:36

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			03/28/23 10:21	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			03/22/23 16:11	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		03/20/23 14:02	03/22/23 03:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/23 14:02	03/22/23 03:20	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/23 14:02	03/22/23 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*03/20/23 14:02*	*03/22/23 03:20*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*03/20/23 14:02*	*03/22/23 03:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**763**		4.97		mg/Kg			03/22/23 20:23	1

Client Sample ID: SW-3b 0-10 Lab Sample ID: 890-4326-3

Date Collected: 03/15/23 11:25 **Matrix: Solid**
Date Received: 03/15/23 16:36

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		03/24/23 13:17	03/28/23 07:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 07:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 07:44	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/24/23 13:17	03/28/23 07:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 07:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/24/23 13:17	03/28/23 07:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/24/23 13:17*	*03/28/23 07:44*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*03/24/23 13:17*	*03/28/23 07:44*	*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			03/28/23 10:21	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			03/22/23 16:11	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		03/20/23 14:02	03/22/23 03:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/20/23 14:02	03/22/23 03:42	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4326-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: SW-3b 0-10 Lab Sample ID: 890-4326-3

Date Collected: 03/15/23 11:25 **Matrix: Solid**
Date Received: 03/15/23 16:36

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		03/20/23 14:02	03/22/23 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*80*		*70 - 130*	*03/20/23 14:02*	*03/22/23 03:42*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*03/20/23 14:02*	*03/22/23 03:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**709**		5.00		mg/Kg			03/22/23 20:28	1

Client Sample ID: SW-3c 0-10 Lab Sample ID: 890-4326-4

Date Collected: 03/15/23 11:45 **Matrix: Solid**
Date Received: 03/15/23 16:36

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		03/24/23 13:17	03/28/23 08:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/24/23 13:17	03/28/23 08:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/24/23 13:17	03/28/23 08:04	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		03/24/23 13:17	03/28/23 08:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/24/23 13:17	03/28/23 08:04	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/24/23 13:17	03/28/23 08:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/24/23 13:17*	*03/28/23 08:04*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*03/24/23 13:17*	*03/28/23 08:04*	*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			03/28/23 10:21	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			03/22/23 16:11	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		03/20/23 14:02	03/22/23 04:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/23 14:02	03/22/23 04:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/23 14:02	03/22/23 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*03/20/23 14:02*	*03/22/23 04:04*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*03/20/23 14:02*	*03/22/23 04:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**700**		4.96		mg/Kg			03/22/23 20:33	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

Client Sample ID: SW-5a 0-10

Lab Sample ID: 890-4326-5
Matrix: Solid
Date Collected: 03/15/23 13:30
Date Received: 03/15/23 16:36

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		03/24/23 13:17	03/28/23 08:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/24/23 13:17	03/28/23 08:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/24/23 13:17	03/28/23 08:25	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/24/23 13:17	03/28/23 08:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/24/23 13:17	03/28/23 08:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/24/23 13:17	03/28/23 08:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/24/23 13:17*	*03/28/23 08:25*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*03/24/23 13:17*	*03/28/23 08:25*	*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			03/28/23 10:21	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			03/22/23 16:11	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		03/20/23 14:02	03/22/23 04:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/23 14:02	03/22/23 04:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/23 14:02	03/22/23 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*03/20/23 14:02*	*03/22/23 04:26*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*03/20/23 14:02*	*03/22/23 04:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**633**		5.05		mg/Kg			03/22/23 20:38	1

Client Sample ID: SW-5b 0-10

Lab Sample ID: 890-4326-6
Matrix: Solid
Date Collected: 03/15/23 13:50
Date Received: 03/15/23 16:36

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		03/24/23 13:17	03/28/23 08:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 08:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 08:45	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 08:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 08:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/24/23 13:17*	*03/28/23 08:45*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/24/23 13:17*	*03/28/23 08:45*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4326-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: SW-5b 0-10 Lab Sample ID: 890-4326-6

Date Collected: 03/15/23 13:50 **Matrix: Solid**
Date Received: 03/15/23 16:36

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			03/28/23 10:21	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			03/22/23 16:11	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		03/20/23 14:02	03/22/23 04:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/20/23 14:02	03/22/23 04:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/20/23 14:02	03/22/23 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*79*		*70 - 130*	*03/20/23 14:02*	*03/22/23 04:49*	*1*
o-Terphenyl (Surr)	*77*		*70 - 130*	*03/20/23 14:02*	*03/22/23 04:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**941**		5.02		mg/Kg			03/22/23 20:43	1

Client Sample ID: SW-5c 0-10 Lab Sample ID: 890-4326-7

Date Collected: 03/15/23 14:10 **Matrix: Solid**
Date Received: 03/15/23 16:36

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		03/24/23 13:17	03/28/23 09:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 09:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 09:06	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 09:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 13:17	03/28/23 09:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 13:17	03/28/23 09:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/24/23 13:17*	*03/28/23 09:06*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/24/23 13:17*	*03/28/23 09:06*	*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			03/28/23 10:21	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			03/22/23 16:11	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		03/20/23 14:02	03/22/23 05:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/23 14:02	03/22/23 05:12	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

Client Sample ID: SW-5c 0-10
Date Collected: 03/15/23 14:10
Date Received: 03/15/23 16:36

Lab Sample ID: 890-4326-7
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)	<49.9	U	49.9		mg/Kg		03/20/23 14:02	03/22/23 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*03/20/23 14:02*	*03/22/23 05:12*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*03/20/23 14:02*	*03/22/23 05:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**755**		5.01		mg/Kg			03/22/23 20:48	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

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)
890-4326-1	SW-2 0-10	101	106
890-4326-2	SW-3a 0-10	100	98
890-4326-3	SW-3b 0-10	109	107
890-4326-4	SW-3c 0-10	100	105
890-4326-5	SW-5a 0-10	104	105
890-4326-6	SW-5b 0-10	101	109
890-4326-7	SW-5c 0-10	103	108
LCS 880-49424/1-A	Lab Control Sample	97	110
LCSD 880-49424/2-A	Lab Control Sample Dup	97	110
MB 880-49424/5-A	Method Blank	90	97
MB 880-49607/8	Method Blank	88	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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4326-1	SW-2 0-10	99	94
890-4326-2	SW-3a 0-10	100	94
890-4326-3	SW-3b 0-10	80	79
890-4326-4	SW-3c 0-10	83	82
890-4326-5	SW-5a 0-10	97	91
890-4326-6	SW-5b 0-10	79	77
890-4326-7	SW-5c 0-10	97	91
LCS 880-49014/2-A	Lab Control Sample	94	99
LCSD 880-49014/3-A	Lab Control Sample Dup	91	99
MB 880-49014/1-A	Method Blank	120	125

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49424/5-A
Matrix: Solid
Analysis Batch: 49607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49424

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 01:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 01:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 01:21	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/24/23 13:17	03/28/23 01:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 13:17	03/28/23 01:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/24/23 13:17	03/28/23 01:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*03/24/23 13:17*	*03/28/23 01:21*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/24/23 13:17*	*03/28/23 01:21*	*1*

Lab Sample ID: LCS 880-49424/1-A
Matrix: Solid
Analysis Batch: 49607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49424

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1022		mg/Kg		102	70 - 130		
Toluene			0.100	0.09998		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.08973		mg/Kg		90	70 - 130		
m,p-Xylenes			0.200	0.1763		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.08969		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 880-49424/2-A
Matrix: Solid
Analysis Batch: 49607

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49424

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1054		mg/Kg		105	70 - 130	3	35
Toluene			0.100	0.1013		mg/Kg		101	70 - 130	1	35
Ethylbenzene			0.100	0.09252		mg/Kg		93	70 - 130	3	35
m,p-Xylenes			0.200	0.1812		mg/Kg		91	70 - 130	3	35
o-Xylene			0.100	0.09207		mg/Kg		92	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: MB 880-49607/8
Matrix: Solid
Analysis Batch: 49607

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			03/27/23 13:45	1
Toluene	<0.00200	U	0.00200		mg/Kg			03/27/23 13:45	1

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4326-1
Project/Site: Boo Radley SDG: 21-0105-08

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

Lab Sample ID: MB 880-49607/8 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 49607

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			03/27/23 13:45	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg			03/27/23 13:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			03/27/23 13:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			03/27/23 13:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*03/27/23 13:45*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*03/27/23 13:45*	*1*

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

Lab Sample ID: MB 880-49014/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 49067 **Prep Batch: 49014**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/20/23 14:02	03/21/23 19:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/20/23 14:02	03/21/23 19:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/20/23 14:02	03/21/23 19:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*03/20/23 14:02*	*03/21/23 19:58*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*03/20/23 14:02*	*03/21/23 19:58*	*1*

Lab Sample ID: LCS 880-49014/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 49067 **Prep Batch: 49014**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	891.1		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	825.9		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*94*		*70 - 130*
o-Terphenyl (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-49014/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 49067 **Prep Batch: 49014**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	801.0		mg/Kg		80	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	838.8		mg/Kg		84	70 - 130	2	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-49014/3-A
Matrix: Solid
Analysis Batch: 49067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49014

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	91		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48964/1-A
Matrix: Solid
Analysis Batch: 49308

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/22/23 18:22	1

Lab Sample ID: LCS 880-48964/2-A
Matrix: Solid
Analysis Batch: 49308

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.8		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-48964/3-A
Matrix: Solid
Analysis Batch: 49308

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	245.5		mg/Kg		98	90 - 110	2	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

GC VOA

Prep Batch: 49424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4326-1	SW-2 0-10	Total/NA	Solid	5035	
890-4326-2	SW-3a 0-10	Total/NA	Solid	5035	
890-4326-3	SW-3b 0-10	Total/NA	Solid	5035	
890-4326-4	SW-3c 0-10	Total/NA	Solid	5035	
890-4326-5	SW-5a 0-10	Total/NA	Solid	5035	
890-4326-6	SW-5b 0-10	Total/NA	Solid	5035	
890-4326-7	SW-5c 0-10	Total/NA	Solid	5035	
MB 880-49424/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49424/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49424/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 49607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4326-1	SW-2 0-10	Total/NA	Solid	8021B	49424
890-4326-2	SW-3a 0-10	Total/NA	Solid	8021B	49424
890-4326-3	SW-3b 0-10	Total/NA	Solid	8021B	49424
890-4326-4	SW-3c 0-10	Total/NA	Solid	8021B	49424
890-4326-5	SW-5a 0-10	Total/NA	Solid	8021B	49424
890-4326-6	SW-5b 0-10	Total/NA	Solid	8021B	49424
890-4326-7	SW-5c 0-10	Total/NA	Solid	8021B	49424
MB 880-49424/5-A	Method Blank	Total/NA	Solid	8021B	49424
MB 880-49607/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-49424/1-A	Lab Control Sample	Total/NA	Solid	8021B	49424
LCSD 880-49424/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49424

Analysis Batch: 49722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4326-1	SW-2 0-10	Total/NA	Solid	Total BTEX	
890-4326-2	SW-3a 0-10	Total/NA	Solid	Total BTEX	
890-4326-3	SW-3b 0-10	Total/NA	Solid	Total BTEX	
890-4326-4	SW-3c 0-10	Total/NA	Solid	Total BTEX	
890-4326-5	SW-5a 0-10	Total/NA	Solid	Total BTEX	
890-4326-6	SW-5b 0-10	Total/NA	Solid	Total BTEX	
890-4326-7	SW-5c 0-10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4326-1	SW-2 0-10	Total/NA	Solid	8015NM Prep	
890-4326-2	SW-3a 0-10	Total/NA	Solid	8015NM Prep	
890-4326-3	SW-3b 0-10	Total/NA	Solid	8015NM Prep	
890-4326-4	SW-3c 0-10	Total/NA	Solid	8015NM Prep	
890-4326-5	SW-5a 0-10	Total/NA	Solid	8015NM Prep	
890-4326-6	SW-5b 0-10	Total/NA	Solid	8015NM Prep	
890-4326-7	SW-5c 0-10	Total/NA	Solid	8015NM Prep	
MB 880-49014/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49014/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49014/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

GC Semi VOA

Analysis Batch: 49067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4326-1	SW-2 0-10	Total/NA	Solid	8015B NM	49014
890-4326-2	SW-3a 0-10	Total/NA	Solid	8015B NM	49014
890-4326-3	SW-3b 0-10	Total/NA	Solid	8015B NM	49014
890-4326-4	SW-3c 0-10	Total/NA	Solid	8015B NM	49014
890-4326-5	SW-5a 0-10	Total/NA	Solid	8015B NM	49014
890-4326-6	SW-5b 0-10	Total/NA	Solid	8015B NM	49014
890-4326-7	SW-5c 0-10	Total/NA	Solid	8015B NM	49014
MB 880-49014/1-A	Method Blank	Total/NA	Solid	8015B NM	49014
LCS 880-49014/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49014
LCSD 880-49014/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49014

Analysis Batch: 49233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4326-1	SW-2 0-10	Total/NA	Solid	8015 NM	
890-4326-2	SW-3a 0-10	Total/NA	Solid	8015 NM	
890-4326-3	SW-3b 0-10	Total/NA	Solid	8015 NM	
890-4326-4	SW-3c 0-10	Total/NA	Solid	8015 NM	
890-4326-5	SW-5a 0-10	Total/NA	Solid	8015 NM	
890-4326-6	SW-5b 0-10	Total/NA	Solid	8015 NM	
890-4326-7	SW-5c 0-10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4326-1	SW-2 0-10	Soluble	Solid	DI Leach	
890-4326-2	SW-3a 0-10	Soluble	Solid	DI Leach	
890-4326-3	SW-3b 0-10	Soluble	Solid	DI Leach	
890-4326-4	SW-3c 0-10	Soluble	Solid	DI Leach	
890-4326-5	SW-5a 0-10	Soluble	Solid	DI Leach	
890-4326-6	SW-5b 0-10	Soluble	Solid	DI Leach	
890-4326-7	SW-5c 0-10	Soluble	Solid	DI Leach	
MB 880-48964/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48964/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48964/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 49308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4326-1	SW-2 0-10	Soluble	Solid	300.0	48964
890-4326-2	SW-3a 0-10	Soluble	Solid	300.0	48964
890-4326-3	SW-3b 0-10	Soluble	Solid	300.0	48964
890-4326-4	SW-3c 0-10	Soluble	Solid	300.0	48964
890-4326-5	SW-5a 0-10	Soluble	Solid	300.0	48964
890-4326-6	SW-5b 0-10	Soluble	Solid	300.0	48964
890-4326-7	SW-5c 0-10	Soluble	Solid	300.0	48964
MB 880-48964/1-A	Method Blank	Soluble	Solid	300.0	48964
LCS 880-48964/2-A	Lab Control Sample	Soluble	Solid	300.0	48964
LCSD 880-48964/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48964

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

Client Sample ID: SW-2 0-10

Lab Sample ID: 890-4326-1
Matrix: Solid
Date Collected: 03/15/23 10:45
Date Received: 03/15/23 16:36

Prep 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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 07:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49722	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49014	03/20/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/22/23 02:58	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48964	03/22/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49308	03/22/23 20:19	SMC	EET MID

Client Sample ID: SW-3a 0-10

Lab Sample ID: 890-4326-2
Matrix: Solid
Date Collected: 03/15/23 11:10
Date Received: 03/15/23 16:36

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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 07:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49722	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49014	03/20/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/22/23 03:20	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48964	03/22/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49308	03/22/23 20:23	SMC	EET MID

Client Sample ID: SW-3b 0-10

Lab Sample ID: 890-4326-3
Matrix: Solid
Date Collected: 03/15/23 11:25
Date Received: 03/15/23 16:36

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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 07:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49722	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49014	03/20/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/22/23 03:42	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48964	03/22/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49308	03/22/23 20:28	SMC	EET MID

Client Sample ID: SW-3c 0-10

Lab Sample ID: 890-4326-4
Matrix: Solid
Date Collected: 03/15/23 11:45
Date Received: 03/15/23 16:36

Prep 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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 08:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49722	03/28/23 10:21	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

Client Sample ID: SW-3c 0-10

Lab Sample ID: 890-4326-4
Matrix: Solid
Date Collected: 03/15/23 11:45
Date Received: 03/15/23 16:36

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			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49014	03/20/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/22/23 04:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48964	03/22/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49308	03/22/23 20:33	SMC	EET MID

Client Sample ID: SW-5a 0-10

Lab Sample ID: 890-4326-5
Matrix: Solid
Date Collected: 03/15/23 13:30
Date Received: 03/15/23 16:36

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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 08:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49722	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49014	03/20/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/22/23 04:26	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	48964	03/22/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49308	03/22/23 20:38	SMC	EET MID

Client Sample ID: SW-5b 0-10

Lab Sample ID: 890-4326-6
Matrix: Solid
Date Collected: 03/15/23 13:50
Date Received: 03/15/23 16:36

Prep 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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 08:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49722	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49014	03/20/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/22/23 04:49	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48964	03/22/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49308	03/22/23 20:43	SMC	EET MID

Client Sample ID: SW-5c 0-10

Lab Sample ID: 890-4326-7
Matrix: Solid
Date Collected: 03/15/23 14:10
Date Received: 03/15/23 16:36

Prep 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	49424	03/24/23 13:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49607	03/28/23 09:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49722	03/28/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49014	03/20/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/22/23 05:12	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

Client Sample ID: SW-5c 0-10
Date Collected: 03/15/23 14:10
Date Received: 03/15/23 16:36

Lab Sample ID: 890-4326-7
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			4.99 g	50 mL	48964	03/22/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49308	03/22/23 20:48	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.
Project/Site: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

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: 890-4326-1
Project/Site: Boo Radley SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 890-4326-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4326-1	SW-2 0-10	Solid	03/15/23 10:45	03/15/23 16:36
890-4326-2	SW-3a 0-10	Solid	03/15/23 11:10	03/15/23 16:36
890-4326-3	SW-3b 0-10	Solid	03/15/23 11:25	03/15/23 16:36
890-4326-4	SW-3c 0-10	Solid	03/15/23 11:45	03/15/23 16:36
890-4326-5	SW-5a 0-10	Solid	03/15/23 13:30	03/15/23 16:36
890-4326-6	SW-5b 0-10	Solid	03/15/23 13:50	03/15/23 16:36
890-4326-7	SW-5c 0-10	Solid	03/15/23 14:10	03/15/23 16:36

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No. 2953

CHAIN-OF-CUSTODY

3/28/2023

Larson & Associates, Inc.
Environmental Consultants

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

DATE: 3/15/23 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: 1300 RADLEY

LAI PROJECT #: 21-0105-08 COLLECTOR: S. BATES

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT / 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 ☐ | 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	TRPH	GASOLINE	DIESEL	OIL	VOC	SVOC	PAH	PESTICIDES	PCBS	TCLP METALS	TCLP PEST	TOTAL METALS	LEAD	RCI	TDS	pH	EXPLOSIVES	CHLORIDE	FIELD NOTES
SW-2 0-10		3/15/23	10:45	S	1				X		X		X	X	X														X	
SW 3a 0-10		"	11:10	"	1				"		"		"	"	"														"	
SW 3b 0-10		"	11:25	"	1				"		"		"	"	"														"	
SW-3c 0-10		"	11:45	"	1				"		"		"	"	"														"	
SW-5a 0-10		"	1:30	"	1				"		"		"	"	"														"	
SW-5b 0-10		"	1:50	"	1				"		"		"	"	"														"	
SW-5c 0-11		"	2:10	"	1				"		"		"	"	"														"	
TOTAL																														

890-4326 Chain of Custody

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
3/15/23	1636	Amanda Stat
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: TNM-007
RECEIVING TEMP: 1.4/1.2 -0.2 THERM#:
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-4326-1
SDG Number: 21-0105-08

Login Number: 4326
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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?	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.	N/A	Refer to Job Narrative for details.
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: 890-4326-1
SDG Number: 21-0105-08

Login Number: 4326
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/17/23 11:17 AM

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 3/28/2023 9:33:16 AM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

890-4335-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 7/19/2024 10:58:20 AM

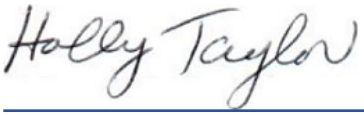
my EOL

Eurofins Carlsbad

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
3/28/2023 9:33:16 AM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 890-4335-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-4335-1
Project/Site: Boo Radley SDG: 21-0105-08

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: Boo Radley

Job ID: 890-4335-1
SDG: 21-0105-08

Job ID: 890-4335-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4335-1

Receipt
The samples were received on 3/16/2023 4:26 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 7.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW4a 0-10' (890-4335-1), SW4b 0-10' (890-4335-2) and SW4c 0-10' (890-4335-3).

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 880-49143 and analytical batch 880-49155 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-49143/2-A) and (LCSD 880-49143/3-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.

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

Released to Imaging: 1/9/2024 10:58:26 AM

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4335-1
SDG: 21-0105-08

Client Sample ID: SW4a 0-10'

Lab Sample ID: 890-4335-1
Matrix: Solid
Date Collected: 03/16/23 13:45
Date Received: 03/16/23 16:26

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		03/24/23 10:32	03/27/23 17:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:32	03/27/23 17:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:32	03/27/23 17:42	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/24/23 10:32	03/27/23 17:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:32	03/27/23 17:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/24/23 10:32	03/27/23 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*03/24/23 10:32*	*03/27/23 17:42*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*03/24/23 10:32*	*03/27/23 17:42*	*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			03/28/23 10:05	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			03/22/23 16:11	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		03/21/23 13:58	03/22/23 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 18:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*03/21/23 13:58*	*03/22/23 18:03*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*03/21/23 13:58*	*03/22/23 18:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**993**		25.2		mg/Kg			03/26/23 11:20	5

Client Sample ID: SW4b 0-10'

Lab Sample ID: 890-4335-2
Matrix: Solid
Date Collected: 03/16/23 14:05
Date Received: 03/16/23 16:26

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		03/24/23 10:32	03/27/23 18:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:32	03/27/23 18:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:32	03/27/23 18:02	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/24/23 10:32	03/27/23 18:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:32	03/27/23 18:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/24/23 10:32	03/27/23 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/24/23 10:32*	*03/27/23 18:02*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/24/23 10:32*	*03/27/23 18:02*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4335-1
SDG: 21-0105-08

Client Sample ID: SW4b 0-10'

Lab Sample ID: 890-4335-2
Matrix: Solid
Date Collected: 03/16/23 14:05
Date Received: 03/16/23 16:26

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			03/28/23 10:05	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			03/22/23 16:11	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		03/21/23 13:58	03/22/23 18:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/21/23 13:58	03/22/23 18:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/21/23 13:58	03/22/23 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*03/21/23 13:58*	*03/22/23 18:26*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*03/21/23 13:58*	*03/22/23 18:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**746**		25.0		mg/Kg			03/26/23 11:24	5

Client Sample ID: SW4c 0-10'

Lab Sample ID: 890-4335-3
Matrix: Solid
Date Collected: 03/16/23 14:20
Date Received: 03/16/23 16:26

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		03/24/23 10:32	03/27/23 18:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:32	03/27/23 18:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:32	03/27/23 18:23	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/24/23 10:32	03/27/23 18:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/23 10:32	03/27/23 18:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/23 10:32	03/27/23 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*03/24/23 10:32*	*03/27/23 18:23*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/24/23 10:32*	*03/27/23 18:23*	*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			03/28/23 10:05	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			03/22/23 16:11	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		03/21/23 13:58	03/22/23 18:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/21/23 13:58	03/22/23 18:48	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4335-1
SDG: 21-0105-08

Client Sample ID: SW4c 0-10'
Date Collected: 03/16/23 14:20
Date Received: 03/16/23 16:26

Lab Sample ID: 890-4335-3
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		03/21/23 13:58	03/22/23 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*78*		*70 - 130*	*03/21/23 13:58*	*03/22/23 18:48*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*03/21/23 13:58*	*03/22/23 18:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**463**		4.99		mg/Kg			03/26/23 11:29	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4335-1
SDG: 21-0105-08

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)
890-4335-1	SW4a 0-10'	112	96
890-4335-2	SW4b 0-10'	111	98
890-4335-3	SW4c 0-10'	123	102
LCS 880-49395/1-A	Lab Control Sample	112	97
LCSD 880-49395/2-A	Lab Control Sample Dup	104	91
MB 880-49395/5-A	Method Blank	98	80

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)
890-4335-1	SW4a 0-10'	101	106
890-4335-2	SW4b 0-10'	92	99
890-4335-3	SW4c 0-10'	78	86
LCS 880-49143/2-A	Lab Control Sample	115	135 S1+
LCSD 880-49143/3-A	Lab Control Sample Dup	111	132 S1+
MB 880-49143/1-A	Method Blank	117	138 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4335-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49395/5-A
Matrix: Solid
Analysis Batch: 49565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49395

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:32	03/27/23 11:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:32	03/27/23 11:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:32	03/27/23 11:05	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/24/23 10:32	03/27/23 11:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/23 10:32	03/27/23 11:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/24/23 10:32	03/27/23 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/24/23 10:32*	*03/27/23 11:05*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*03/24/23 10:32*	*03/27/23 11:05*	*1*

Lab Sample ID: LCS 880-49395/1-A
Matrix: Solid
Analysis Batch: 49565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49395

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09176		mg/Kg		92	70 - 130		
Toluene			0.100	0.09833		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.09729		mg/Kg		97	70 - 130		
m,p-Xylenes			0.200	0.2024		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1015		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-49395/2-A
Matrix: Solid
Analysis Batch: 49565

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49395

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08376		mg/Kg		84	70 - 130	9	35
Toluene			0.100	0.09163		mg/Kg		92	70 - 130	7	35
Ethylbenzene			0.100	0.08997		mg/Kg		90	70 - 130	8	35
m,p-Xylenes			0.200	0.1879		mg/Kg		94	70 - 130	7	35
o-Xylene			0.100	0.09436		mg/Kg		94	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4335-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-49143/1-A
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49143

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 08:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 08:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/21/23 13:58	03/22/23 08:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*03/21/23 13:58*	*03/22/23 08:00*	*1*
o-Terphenyl (Surr)	*138*	*S1+*	*70 - 130*	*03/21/23 13:58*	*03/22/23 08:00*	*1*

Lab Sample ID: LCS 880-49143/2-A
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49143

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	957.6		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	916.2		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*115*		*70 - 130*
o-Terphenyl (Surr)	*135*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-49143/3-A
Matrix: Solid
Analysis Batch: 49155

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49143

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	941.5		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	888.6		mg/Kg		89	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*111*		*70 - 130*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49271/1-A
Matrix: Solid
Analysis Batch: 49506

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/26/23 10:07	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4335-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-49271/2-A
Matrix: Solid
Analysis Batch: 49506

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.5		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-49271/3-A
Matrix: Solid
Analysis Batch: 49506

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	262.4		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-4335-3 MS
Matrix: Solid
Analysis Batch: 49506

Client Sample ID: SW4c 0-10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	463		250	716.5		mg/Kg		102	90 - 110		

Lab Sample ID: 890-4335-3 MSD
Matrix: Solid
Analysis Batch: 49506

Client Sample ID: SW4c 0-10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	463		250	717.6		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4335-1
SDG: 21-0105-08

GC VOA

Prep Batch: 49395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4335-1	SW4a 0-10'	Total/NA	Solid	5035	
890-4335-2	SW4b 0-10'	Total/NA	Solid	5035	
890-4335-3	SW4c 0-10'	Total/NA	Solid	5035	
MB 880-49395/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49395/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49395/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 49565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4335-1	SW4a 0-10'	Total/NA	Solid	8021B	49395
890-4335-2	SW4b 0-10'	Total/NA	Solid	8021B	49395
890-4335-3	SW4c 0-10'	Total/NA	Solid	8021B	49395
MB 880-49395/5-A	Method Blank	Total/NA	Solid	8021B	49395
LCS 880-49395/1-A	Lab Control Sample	Total/NA	Solid	8021B	49395
LCSD 880-49395/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49395

Analysis Batch: 49704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4335-1	SW4a 0-10'	Total/NA	Solid	Total BTEX	
890-4335-2	SW4b 0-10'	Total/NA	Solid	Total BTEX	
890-4335-3	SW4c 0-10'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4335-1	SW4a 0-10'	Total/NA	Solid	8015NM Prep	
890-4335-2	SW4b 0-10'	Total/NA	Solid	8015NM Prep	
890-4335-3	SW4c 0-10'	Total/NA	Solid	8015NM Prep	
MB 880-49143/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49143/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4335-1	SW4a 0-10'	Total/NA	Solid	8015B NM	49143
890-4335-2	SW4b 0-10'	Total/NA	Solid	8015B NM	49143
890-4335-3	SW4c 0-10'	Total/NA	Solid	8015B NM	49143
MB 880-49143/1-A	Method Blank	Total/NA	Solid	8015B NM	49143
LCS 880-49143/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49143
LCSD 880-49143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49143

Analysis Batch: 49233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4335-1	SW4a 0-10'	Total/NA	Solid	8015 NM	
890-4335-2	SW4b 0-10'	Total/NA	Solid	8015 NM	
890-4335-3	SW4c 0-10'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4335-1
SDG: 21-0105-08

HPLC/IC

Leach Batch: 49271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4335-1	SW4a 0-10'	Soluble	Solid	DI Leach	
890-4335-2	SW4b 0-10'	Soluble	Solid	DI Leach	
890-4335-3	SW4c 0-10'	Soluble	Solid	DI Leach	
MB 880-49271/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49271/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49271/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4335-3 MS	SW4c 0-10'	Soluble	Solid	DI Leach	
890-4335-3 MSD	SW4c 0-10'	Soluble	Solid	DI Leach	

Analysis Batch: 49506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4335-1	SW4a 0-10'	Soluble	Solid	300.0	49271
890-4335-2	SW4b 0-10'	Soluble	Solid	300.0	49271
890-4335-3	SW4c 0-10'	Soluble	Solid	300.0	49271
MB 880-49271/1-A	Method Blank	Soluble	Solid	300.0	49271
LCS 880-49271/2-A	Lab Control Sample	Soluble	Solid	300.0	49271
LCSD 880-49271/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49271
890-4335-3 MS	SW4c 0-10'	Soluble	Solid	300.0	49271
890-4335-3 MSD	SW4c 0-10'	Soluble	Solid	300.0	49271

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4335-1
SDG: 21-0105-08

Client Sample ID: SW4a 0-10'

Lab Sample ID: 890-4335-1
Matrix: Solid
Date Collected: 03/16/23 13:45
Date Received: 03/16/23 16:26

Prep 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	49395	03/24/23 10:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49565	03/27/23 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49704	03/28/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49143	03/21/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 18:03	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49271	03/22/23 22:21	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49506	03/26/23 11:20	SMC	EET MID

Client Sample ID: SW4b 0-10'

Lab Sample ID: 890-4335-2
Matrix: Solid
Date Collected: 03/16/23 14:05
Date Received: 03/16/23 16:26

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	49395	03/24/23 10:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49565	03/27/23 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49704	03/28/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49143	03/21/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 18:26	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49271	03/22/23 22:21	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49506	03/26/23 11:24	SMC	EET MID

Client Sample ID: SW4c 0-10'

Lab Sample ID: 890-4335-3
Matrix: Solid
Date Collected: 03/16/23 14:20
Date Received: 03/16/23 16:26

Prep 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	49395	03/24/23 10:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49565	03/27/23 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49704	03/28/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49143	03/21/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49155	03/22/23 18:48	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49271	03/22/23 22:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49506	03/26/23 11:29	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.
Project/Site: Boo Radley

Job ID: 890-4335-1
SDG: 21-0105-08

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: 890-4335-1
Project/Site: Boo Radley SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 890-4335-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4335-1	SW4a 0-10'	Solid	03/16/23 13:45	03/16/23 16:26
890-4335-2	SW4b 0-10'	Solid	03/16/23 14:05	03/16/23 16:26
890-4335-3	SW4c 0-10'	Solid	03/16/23 14:20	03/16/23 16:26

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No. 2954

CHAIN-OF-CUSTODY

3/28/2023

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

Data Reported to:

DATE: 3.16.23 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: 1300 LADLEY

LAI PROJECT #: 21-0105-08 COLLECTOR: S. BATES

TRRP report? ☐ Yes ☒ No

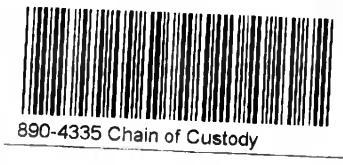
TIME ZONE: Time zone/State: MNT / NM

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 ☐ | 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
SW4a 0-10'		3/16/23	1:45	S	1				X		BTEX, TRPH 418.1, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, ALKALINITY	
SW4b 0-10'		3/16/23	2:05	S	1				X		BTEX, TRPH 418.1, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, ALKALINITY	
SW4c 0-10'		3/16/23	2:20	S	1				X		BTEX, TRPH 418.1, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, ALKALINITY	
TOTAL												



RELINQUISHED BY:(Signature) S. Bates DATE/TIME 3/16/23 RECEIVED BY: (Signature) Joe Cuff DATE/TIME 3.16.23 1626

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: TNM007
RECEIVING TEMP: 8.0/7.8 THERM#: -0.2
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-4335-1
SDG Number: 21-0105-08

Login Number: 4335
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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?	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.	N/A	Refer to Job Narrative for details.
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: 890-4335-1
SDG Number: 21-0105-08

Login Number: 4335
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/20/23 08:25 AM

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 4/3/2023 3:14:20 PM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

890-4381-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 7/19/2024 10:58:20 AM

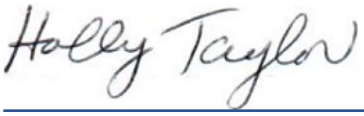
my EOL

Eurofins Carlsbad

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
4/3/2023 3:14:20 PM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 890-4381-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-4381-1
Project/Site: Boo Radley SDG: 21-0105-08

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
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: Boo Radley

Job ID: 890-4381-1
SDG: 21-0105-08

Job ID: 890-4381-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4381-1

Receipt
The samples were received on 3/21/2023 4:30 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 7.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-10 0-10 (890-4381-1), SW-18 0-10 (890-4381-2) and C-77 6.5 (890-4381-3).

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): SW-10 0-10 (890-4381-1), SW-18 0-10 (890-4381-2) and C-77 6.5 (890-4381-3). The container labels list SW-18 0-10 3-21-23 11:50, while the COC lists SW-10 0-10 3-21-23 11:50. The lab based off the time, date, depth these are the same samples and chose to use the sample ID of SW-18 because there were two SW-10s on the COC. Daniel St. Germain called and confirmed that we had labeled the samples correctly.

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-49808 and analytical batch 880-50000 were outside control limits. Non-homogeneity is 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
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: Boo Radley

Job ID: 890-4381-1
SDG: 21-0105-08

Client Sample ID: SW-10 0-10

Lab Sample ID: 890-4381-1
Matrix: Solid
Date Collected: 03/21/23 11:30
Date Received: 03/21/23 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198		mg/Kg		03/29/23 10:19	04/01/23 10:09	1
Toluene	<0.00198	U F1	0.00198		mg/Kg		03/29/23 10:19	04/01/23 10:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/29/23 10:19	04/01/23 10:09	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		03/29/23 10:19	04/01/23 10:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/29/23 10:19	04/01/23 10:09	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/29/23 10:19	04/01/23 10:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/29/23 10:19*	*04/01/23 10:09*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/29/23 10:19*	*04/01/23 10:09*	*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			04/03/23 15:17	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			03/28/23 09:22	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		03/27/23 12:41	03/28/23 04:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 12:41	03/28/23 04:13	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 12:41	03/28/23 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*03/27/23 12:41*	*03/28/23 04:13*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*03/27/23 12:41*	*03/28/23 04:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**385**		5.04		mg/Kg			03/31/23 20:53	1

Client Sample ID: SW-18 0-10

Lab Sample ID: 890-4381-2
Matrix: Solid
Date Collected: 03/21/23 11:50
Date Received: 03/21/23 16:30

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		03/29/23 10:19	04/01/23 10:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:19	04/01/23 10:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:19	04/01/23 10:30	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 10:19	04/01/23 10:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:19	04/01/23 10:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 10:19	04/01/23 10:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/29/23 10:19*	*04/01/23 10:30*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/29/23 10:19*	*04/01/23 10:30*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4381-1
SDG: 21-0105-08

Client Sample ID: SW-18 0-10

Date Collected: 03/21/23 11:50
Date Received: 03/21/23 16:30

Lab Sample ID: 890-4381-2
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			04/03/23 15:17	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			03/28/23 09:22	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		03/27/23 12:41	03/28/23 04:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 12:41	03/28/23 04:34	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 12:41	03/28/23 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*78*		*70 - 130*	*03/27/23 12:41*	*03/28/23 04:34*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*03/27/23 12:41*	*03/28/23 04:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**562**		4.99		mg/Kg			03/31/23 20:58	1

Client Sample ID: C-77 6.5

Date Collected: 03/21/23 13:55
Date Received: 03/21/23 16:30

Lab Sample ID: 890-4381-3
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		03/29/23 10:19	04/01/23 10:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:19	04/01/23 10:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:19	04/01/23 10:50	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/29/23 10:19	04/01/23 10:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:19	04/01/23 10:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/29/23 10:19	04/01/23 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/29/23 10:19*	*04/01/23 10:50*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/29/23 10:19*	*04/01/23 10:50*	*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			04/03/23 15:17	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			03/28/23 09:22	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		03/27/23 12:41	03/28/23 04:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 12:41	03/28/23 04:56	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4381-1
SDG: 21-0105-08

Client Sample ID: C-77 6.5
Date Collected: 03/21/23 13:55
Date Received: 03/21/23 16:30

Lab Sample ID: 890-4381-3
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)	<49.9	U	49.9		mg/Kg		03/27/23 12:41	03/28/23 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*79*		*70 - 130*	*03/27/23 12:41*	*03/28/23 04:56*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*03/27/23 12:41*	*03/28/23 04:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**137**		4.96		mg/Kg			03/31/23 21:03	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4381-1
SDG: 21-0105-08

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)
890-4381-1	SW-10 0-10	104	94
890-4381-1 MS	SW-10 0-10	113	89
890-4381-1 MSD	SW-10 0-10	113	84
890-4381-2	SW-18 0-10	106	99
890-4381-3	C-77 6.5	111	99
LCS 880-49808/1-A	Lab Control Sample	104	88
LCSD 880-49808/2-A	Lab Control Sample Dup	110	88
MB 880-49808/5-A	Method Blank	100	81
MB 880-49933/5-A	Method Blank	103	79

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)
890-4381-1	SW-10 0-10	100	103
890-4381-2	SW-18 0-10	78	86
890-4381-3	C-77 6.5	79	86
LCS 880-49629/2-A	Lab Control Sample	93	103
LCSD 880-49629/3-A	Lab Control Sample Dup	96	100
MB 880-49629/1-A	Method Blank	105	112

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4381-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49808/5-A
Matrix: Solid
Analysis Batch: 50000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49808

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:19	04/01/23 09:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:19	04/01/23 09:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:19	04/01/23 09:47	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/29/23 10:19	04/01/23 09:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:19	04/01/23 09:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/29/23 10:19	04/01/23 09:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/29/23 10:19*	*04/01/23 09:47*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*03/29/23 10:19*	*04/01/23 09:47*	*1*

Lab Sample ID: LCS 880-49808/1-A
Matrix: Solid
Analysis Batch: 50000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49808

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08736		mg/Kg		87	70 - 130		
Toluene			0.100	0.09251		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.08844		mg/Kg		88	70 - 130		
m,p-Xylenes			0.200	0.1836		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.09446		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: LCSD 880-49808/2-A
Matrix: Solid
Analysis Batch: 50000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49808

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08999		mg/Kg		90	70 - 130	3	35
Toluene			0.100	0.09676		mg/Kg		97	70 - 130	4	35
Ethylbenzene			0.100	0.09340		mg/Kg		93	70 - 130	5	35
m,p-Xylenes			0.200	0.1958		mg/Kg		98	70 - 130	6	35
o-Xylene			0.100	0.1015		mg/Kg		102	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: 890-4381-1 MS
Matrix: Solid
Analysis Batch: 50000

Client Sample ID: SW-10 0-10
Prep Type: Total/NA
Prep Batch: 49808

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U F1	0.0998	0.06102	F1	mg/Kg		61	70 - 130		
Toluene	<0.00198	U F1	0.0998	0.06854	F1	mg/Kg		69	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4381-1
SDG: 21-0105-08

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

Lab Sample ID: 890-4381-1 MS
Matrix: Solid
Analysis Batch: 50000

Client Sample ID: SW-10 0-10
Prep Type: Total/NA
Prep Batch: 49808

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0998	0.06969		mg/Kg		70	70 - 130
m,p-Xylenes	<0.00396	U	0.200	0.1467		mg/Kg		73	70 - 130
o-Xylene	<0.00198	U	0.0998	0.07643		mg/Kg		77	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 890-4381-1 MSD
Matrix: Solid
Analysis Batch: 50000

Client Sample ID: SW-10 0-10
Prep Type: Total/NA
Prep Batch: 49808

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.100	0.07589		mg/Kg		75	70 - 130	22	35
Toluene	<0.00198	U F1	0.100	0.08530		mg/Kg		85	70 - 130	22	35
Ethylbenzene	<0.00198	U	0.100	0.08427		mg/Kg		84	70 - 130	19	35
m,p-Xylenes	<0.00396	U	0.200	0.1753		mg/Kg		87	70 - 130	18	35
o-Xylene	<0.00198	U	0.100	0.09052		mg/Kg		90	70 - 130	17	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: MB 880-49933/5-A
Matrix: Solid
Analysis Batch: 50000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49933

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:24	03/31/23 23:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:24	03/31/23 23:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:24	03/31/23 23:05	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		03/30/23 12:24	03/31/23 23:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:24	03/31/23 23:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/30/23 12:24	03/31/23 23:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/30/23 12:24*	*03/31/23 23:05*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*03/30/23 12:24*	*03/31/23 23:05*	*1*

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

Lab Sample ID: MB 880-49629/1-A
Matrix: Solid
Analysis Batch: 49557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49629

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/27/23 12:41	03/27/23 20:02	1

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4381-1
Project/Site: Boo Radley SDG: 21-0105-08

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

Lab Sample ID: MB 880-49629/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 49557 **Prep Batch: 49629**

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		03/27/23 12:41	03/27/23 20:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 12:41	03/27/23 20:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*03/27/23 12:41*	*03/27/23 20:02*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*03/27/23 12:41*	*03/27/23 20:02*	*1*

Lab Sample ID: LCS 880-49629/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 49557 **Prep Batch: 49629**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	877.1		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	862.2		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*93*		*70 - 130*
o-Terphenyl (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-49629/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 49557 **Prep Batch: 49629**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	943.1		mg/Kg		94	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	845.1		mg/Kg		85	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*96*		*70 - 130*
o-Terphenyl (Surr)	*100*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49876/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 50035

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/31/23 19:50	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4381-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-49876/2-A
Matrix: Solid
Analysis Batch: 50035

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	256.8		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-49876/3-A
Matrix: Solid
Analysis Batch: 50035

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.2		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4381-1
SDG: 21-0105-08

GC VOA

Prep Batch: 49808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4381-1	SW-10 0-10	Total/NA	Solid	5035	
890-4381-2	SW-18 0-10	Total/NA	Solid	5035	
890-4381-3	C-77 6.5	Total/NA	Solid	5035	
MB 880-49808/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49808/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49808/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4381-1 MS	SW-10 0-10	Total/NA	Solid	5035	
890-4381-1 MSD	SW-10 0-10	Total/NA	Solid	5035	

Prep Batch: 49933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49933/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 50000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4381-1	SW-10 0-10	Total/NA	Solid	8021B	49808
890-4381-2	SW-18 0-10	Total/NA	Solid	8021B	49808
890-4381-3	C-77 6.5	Total/NA	Solid	8021B	49808
MB 880-49808/5-A	Method Blank	Total/NA	Solid	8021B	49808
MB 880-49933/5-A	Method Blank	Total/NA	Solid	8021B	49933
LCS 880-49808/1-A	Lab Control Sample	Total/NA	Solid	8021B	49808
LCSD 880-49808/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49808
890-4381-1 MS	SW-10 0-10	Total/NA	Solid	8021B	49808
890-4381-1 MSD	SW-10 0-10	Total/NA	Solid	8021B	49808

Analysis Batch: 50219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4381-1	SW-10 0-10	Total/NA	Solid	Total BTEX	
890-4381-2	SW-18 0-10	Total/NA	Solid	Total BTEX	
890-4381-3	C-77 6.5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 49557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4381-1	SW-10 0-10	Total/NA	Solid	8015B NM	49629
890-4381-2	SW-18 0-10	Total/NA	Solid	8015B NM	49629
890-4381-3	C-77 6.5	Total/NA	Solid	8015B NM	49629
MB 880-49629/1-A	Method Blank	Total/NA	Solid	8015B NM	49629
LCS 880-49629/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49629
LCSD 880-49629/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49629

Prep Batch: 49629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4381-1	SW-10 0-10	Total/NA	Solid	8015NM Prep	
890-4381-2	SW-18 0-10	Total/NA	Solid	8015NM Prep	
890-4381-3	C-77 6.5	Total/NA	Solid	8015NM Prep	
MB 880-49629/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49629/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49629/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4381-1
SDG: 21-0105-08

GC Semi VOA

Analysis Batch: 49701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4381-1	SW-10 0-10	Total/NA	Solid	8015 NM	
890-4381-2	SW-18 0-10	Total/NA	Solid	8015 NM	
890-4381-3	C-77 6.5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4381-1	SW-10 0-10	Soluble	Solid	DI Leach	
890-4381-2	SW-18 0-10	Soluble	Solid	DI Leach	
890-4381-3	C-77 6.5	Soluble	Solid	DI Leach	
MB 880-49876/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49876/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49876/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 50035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4381-1	SW-10 0-10	Soluble	Solid	300.0	49876
890-4381-2	SW-18 0-10	Soluble	Solid	300.0	49876
890-4381-3	C-77 6.5	Soluble	Solid	300.0	49876
MB 880-49876/1-A	Method Blank	Soluble	Solid	300.0	49876
LCS 880-49876/2-A	Lab Control Sample	Soluble	Solid	300.0	49876
LCSD 880-49876/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49876

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4381-1
SDG: 21-0105-08

Client Sample ID: SW-10 0-10

Lab Sample ID: 890-4381-1
Matrix: Solid
Date Collected: 03/21/23 11:30
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	49808	03/29/23 10:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50000	04/01/23 10:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			50219	04/03/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			49701	03/28/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49629	03/27/23 12:41	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49557	03/28/23 04:13	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49876	03/29/23 16:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50035	03/31/23 20:53	SMC	EET MID

Client Sample ID: SW-18 0-10

Lab Sample ID: 890-4381-2
Matrix: Solid
Date Collected: 03/21/23 11:50
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49808	03/29/23 10:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50000	04/01/23 10:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			50219	04/03/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			49701	03/28/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49629	03/27/23 12:41	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49557	03/28/23 04:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49876	03/29/23 16:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50035	03/31/23 20:58	SMC	EET MID

Client Sample ID: C-77 6.5

Lab Sample ID: 890-4381-3
Matrix: Solid
Date Collected: 03/21/23 13:55
Date Received: 03/21/23 16:30

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 mL	49808	03/29/23 10:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50000	04/01/23 10:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			50219	04/03/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			49701	03/28/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49629	03/27/23 12:41	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49557	03/28/23 04:56	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49876	03/29/23 16:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50035	03/31/23 21:03	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.
Project/Site: Boo Radley

Job ID: 890-4381-1
SDG: 21-0105-08

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: 890-4381-1
Project/Site: Boo Radley SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 890-4381-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4381-1	SW-10 0-10	Solid	03/21/23 11:30	03/21/23 16:30
890-4381-2	SW-18 0-10	Solid	03/21/23 11:50	03/21/23 16:30
890-4381-3	C-77 6.5	Solid	03/21/23 13:55	03/21/23 16:30

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No. 2960

CHAIN-OF-CUSTODY

4/3/2023

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

Data Reported to:

DATE: 3/21/23 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: 800 CADLEY

LAI PROJECT #: 21-0105-08 COLLECTOR: S. BATES

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 ☐	CHLORIDE ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
SW-10 0-1ft		3/21/23	11:30	S	1				X		X		X		X																										X					
SW-10 0-1ft		3/21/23	11:50	S	1				X		X		X		X																										X					
~~SW-9~~																																																
C-7 6.5'		3/21/23	1:55	S	1				X		X		X		X																										X					

TOTAL CK RT

890-4381 Chain of Custody

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
	3/21/23 1630	Amanda Stout
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: 1.6/1.4 -0.2 THERM#: Tam-002
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-4381-1
SDG Number: 21-0105-08

Login Number: 4381
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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?	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.	N/A	Refer to Job Narrative for details.
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: 890-4381-1
SDG Number: 21-0105-08

Login Number: 4381
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 03/23/23 10:27 AM

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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 4/3/2023 3:14:43 PM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

890-4382-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 7/19/2024 10:58:20 AM

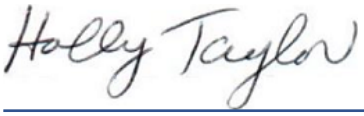
my EOL

Eurofins Carlsbad

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
4/3/2023 3:14:43 PM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 890-4382-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-4382-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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
*+	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.

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. Job ID: 890-4382-1
Project/Site: Boo Radley SDG: 21-0105-08

Job ID: 890-4382-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4382-1

Receipt
The samples were received on 3/21/2023 4:30 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 7.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-116 10' (890-4382-1), C-117 10' (890-4382-2), C-118 10' (890-4382-3), C-119 10' (890-4382-4), C-120 10' (890-4382-5), C-121 10' (890-4382-6), C-122 10' (890-4382-7), C-123 10' (890-4382-8), C-124 10' (890-4382-9), C-125 10' (890-4382-10), C-126 10' (890-4382-11), C-127 10' (890-4382-12), C-128 10' (890-4382-13), C-129 10' (890-4382-14), C-130 10' (890-4382-15) and C-131 10' (890-4382-16).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: C-121 10' (890-4382-6). 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 880-49804 and analytical batch 880-50101 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
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49658 and analytical batch 880-49689 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-49658/2-A) and (LCSD 880-49658/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-49658 and analytical batch 880-49689 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.

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: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

Client Sample ID: C-116 10'

Lab Sample ID: 890-4382-1
Matrix: Solid
Date Collected: 03/21/23 08:20
Date Received: 03/21/23 16:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		03/29/23 10:03	04/02/23 20:38	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		03/29/23 10:03	04/02/23 20:38	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		03/29/23 10:03	04/02/23 20:38	1
m,p-Xylenes	<0.00398	U F1	0.00398		mg/Kg		03/29/23 10:03	04/02/23 20:38	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		03/29/23 10:03	04/02/23 20:38	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		03/29/23 10:03	04/02/23 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/29/23 10:03*	*04/02/23 20:38*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*03/29/23 10:03*	*04/02/23 20:38*	*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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 12:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		03/27/23 16:18	03/28/23 12:14	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 16:18	03/28/23 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*03/27/23 16:18*	*03/28/23 12:14*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*03/27/23 16:18*	*03/28/23 12:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		50.5		mg/Kg			03/31/23 21:07	10

Client Sample ID: C-117 10'

Lab Sample ID: 890-4382-2
Matrix: Solid
Date Collected: 03/21/23 08:30
Date Received: 03/21/23 16:30

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		03/29/23 10:03	04/02/23 20:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/02/23 20:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/02/23 20:58	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 10:03	04/02/23 20:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/02/23 20:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 10:03	04/02/23 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/29/23 10:03*	*04/02/23 20:58*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/29/23 10:03*	*04/02/23 20:58*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

Client Sample ID: C-117 10'

Date Collected: 03/21/23 08:30
Date Received: 03/21/23 16:30

Lab Sample ID: 890-4382-2
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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 13:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		03/27/23 16:18	03/28/23 13:21	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 16:18	03/28/23 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*03/27/23 16:18*	*03/28/23 13:21*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*03/27/23 16:18*	*03/28/23 13:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**923**		25.1		mg/Kg			03/31/23 21:12	5

Client Sample ID: C-118 10'

Date Collected: 03/21/23 08:40
Date Received: 03/21/23 16:30

Lab Sample ID: 890-4382-3
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		03/29/23 10:03	04/02/23 21:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/02/23 21:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/02/23 21:19	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/29/23 10:03	04/02/23 21:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/02/23 21:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/29/23 10:03	04/02/23 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/29/23 10:03*	*04/02/23 21:19*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/29/23 10:03*	*04/02/23 21:19*	*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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 13:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		03/27/23 16:18	03/28/23 13:43	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4382-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-118 10' Lab Sample ID: 890-4382-3

Date Collected: 03/21/23 08:40 **Matrix: Solid**
Date Received: 03/21/23 16:30

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		03/27/23 16:18	03/28/23 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*03/27/23 16:18*	*03/28/23 13:43*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*03/27/23 16:18*	*03/28/23 13:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1450**		49.8		mg/Kg			03/31/23 21:27	10

Client Sample ID: C-119 10' Lab Sample ID: 890-4382-4

Date Collected: 03/21/23 08:50 **Matrix: Solid**
Date Received: 03/21/23 16:30

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		03/29/23 10:03	04/02/23 21:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/29/23 10:03	04/02/23 21:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/29/23 10:03	04/02/23 21:40	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/29/23 10:03	04/02/23 21:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/29/23 10:03	04/02/23 21:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/29/23 10:03	04/02/23 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/29/23 10:03*	*04/02/23 21:40*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/29/23 10:03*	*04/02/23 21:40*	*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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 14:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		03/27/23 16:18	03/28/23 14:05	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/27/23 16:18	03/28/23 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*03/27/23 16:18*	*03/28/23 14:05*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*03/27/23 16:18*	*03/28/23 14:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1860**		49.7		mg/Kg			03/31/23 21:31	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

Client Sample ID: C-120 10'

Lab Sample ID: 890-4382-5
Matrix: Solid
Date Collected: 03/21/23 09:00
Date Received: 03/21/23 16:30

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		03/29/23 10:03	04/02/23 22:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/02/23 22:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/02/23 22:01	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/29/23 10:03	04/02/23 22:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/02/23 22:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/29/23 10:03	04/02/23 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*03/29/23 10:03*	*04/02/23 22:01*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*03/29/23 10:03*	*04/02/23 22:01*	*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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 14:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		03/27/23 16:18	03/28/23 14:27	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 16:18	03/28/23 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*03/27/23 16:18*	*03/28/23 14:27*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*03/27/23 16:18*	*03/28/23 14:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1220**		50.1		mg/Kg			03/31/23 21:46	10

Client Sample ID: C-121 10'

Lab Sample ID: 890-4382-6
Matrix: Solid
Date Collected: 03/21/23 09:15
Date Received: 03/21/23 16:30

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		03/29/23 10:03	04/02/23 22:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/29/23 10:03	04/02/23 22:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/29/23 10:03	04/02/23 22:21	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		03/29/23 10:03	04/02/23 22:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/29/23 10:03	04/02/23 22:21	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/29/23 10:03	04/02/23 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/29/23 10:03*	*04/02/23 22:21*	*1*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*03/29/23 10:03*	*04/02/23 22:21*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

Client Sample ID: C-121 10'

Lab Sample ID: 890-4382-6
Matrix: Solid
Date Collected: 03/21/23 09:15
Date Received: 03/21/23 16:30

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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 14:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		03/27/23 16:18	03/28/23 14:49	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/27/23 16:18	03/28/23 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*03/27/23 16:18*	*03/28/23 14:49*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*03/27/23 16:18*	*03/28/23 14:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2000**		50.0		mg/Kg			03/31/23 21:51	10

Client Sample ID: C-122 10'

Lab Sample ID: 890-4382-7
Matrix: Solid
Date Collected: 03/21/23 09:25
Date Received: 03/21/23 16:30

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		03/29/23 10:03	04/02/23 22:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/02/23 22:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/02/23 22:42	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 10:03	04/02/23 22:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/02/23 22:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 10:03	04/02/23 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/29/23 10:03*	*04/02/23 22:42*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/29/23 10:03*	*04/02/23 22:42*	*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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 15:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		03/27/23 16:18	03/28/23 15:10	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4382-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-122 10'
Lab Sample ID: 890-4382-7
Date Collected: 03/21/23 09:25 **Matrix: Solid**
Date Received: 03/21/23 16:30

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		03/27/23 16:18	03/28/23 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*03/27/23 16:18*	*03/28/23 15:10*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*03/27/23 16:18*	*03/28/23 15:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2170**		50.0		mg/Kg			03/31/23 21:56	10

Client Sample ID: C-123 10'
Lab Sample ID: 890-4382-8
Date Collected: 03/21/23 09:35 **Matrix: Solid**
Date Received: 03/21/23 16:30

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		03/29/23 10:03	04/02/23 23:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/02/23 23:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/02/23 23:03	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 10:03	04/02/23 23:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/02/23 23:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 10:03	04/02/23 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*03/29/23 10:03*	*04/02/23 23:03*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/29/23 10:03*	*04/02/23 23:03*	*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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 15:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		03/27/23 16:18	03/28/23 15:32	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 16:18	03/28/23 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*03/27/23 16:18*	*03/28/23 15:32*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*03/27/23 16:18*	*03/28/23 15:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2070**		50.1		mg/Kg			03/31/23 01:26	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

Client Sample ID: C-124 10'

Lab Sample ID: 890-4382-9
Matrix: Solid
Date Collected: 03/21/23 09:40
Date Received: 03/21/23 16:30

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		03/29/23 10:03	04/02/23 23:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/02/23 23:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/02/23 23:24	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/29/23 10:03	04/02/23 23:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/02/23 23:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/29/23 10:03	04/02/23 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/29/23 10:03*	*04/02/23 23:24*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/29/23 10:03*	*04/02/23 23:24*	*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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 15:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		03/27/23 16:18	03/28/23 15:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 16:18	03/28/23 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*03/27/23 16:18*	*03/28/23 15:55*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*03/27/23 16:18*	*03/28/23 15:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1700**		24.9		mg/Kg			03/31/23 01:40	5

Client Sample ID: C-125 10'

Lab Sample ID: 890-4382-10
Matrix: Solid
Date Collected: 03/21/23 09:50
Date Received: 03/21/23 16:30

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		03/29/23 10:03	04/02/23 23:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/29/23 10:03	04/02/23 23:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/29/23 10:03	04/02/23 23:45	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/29/23 10:03	04/02/23 23:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/29/23 10:03	04/02/23 23:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/29/23 10:03	04/02/23 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/29/23 10:03*	*04/02/23 23:45*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/29/23 10:03*	*04/02/23 23:45*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4382-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-125 10'
Lab Sample ID: 890-4382-10
Date Collected: 03/21/23 09:50 **Matrix: Solid**
Date Received: 03/21/23 16:30

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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 16:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		03/27/23 16:18	03/28/23 16:18	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 16:18	03/28/23 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*03/27/23 16:18*	*03/28/23 16:18*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*03/27/23 16:18*	*03/28/23 16:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1790**		50.0		mg/Kg			03/31/23 01:45	10

Client Sample ID: C-126 10'
Lab Sample ID: 890-4382-11
Date Collected: 03/21/23 10:00 **Matrix: Solid**
Date Received: 03/21/23 16:30

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		03/29/23 10:03	04/03/23 01:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/03/23 01:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/03/23 01:09	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/29/23 10:03	04/03/23 01:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/03/23 01:09	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/29/23 10:03	04/03/23 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*03/29/23 10:03*	*04/03/23 01:09*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*03/29/23 10:03*	*04/03/23 01:09*	*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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 17:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		03/27/23 16:18	03/28/23 17:46	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4382-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-126 10'
Lab Sample ID: 890-4382-11
Date Collected: 03/21/23 10:00 **Matrix: Solid**
Date Received: 03/21/23 16:30

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)	<49.8	U	49.8		mg/Kg		03/27/23 16:18	03/28/23 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*03/27/23 16:18*	*03/28/23 17:46*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*03/27/23 16:18*	*03/28/23 17:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1160**		25.0		mg/Kg			03/31/23 01:50	5

Client Sample ID: C-127 10'
Lab Sample ID: 890-4382-12
Date Collected: 03/21/23 10:10 **Matrix: Solid**
Date Received: 03/21/23 16:30

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		03/29/23 10:03	04/03/23 01:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/03/23 01:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/03/23 01:29	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 10:03	04/03/23 01:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/03/23 01:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 10:03	04/03/23 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/29/23 10:03*	*04/03/23 01:29*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/29/23 10:03*	*04/03/23 01:29*	*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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 18:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		03/27/23 16:18	03/28/23 18:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 16:18	03/28/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*03/27/23 16:18*	*03/28/23 18:08*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*03/27/23 16:18*	*03/28/23 18:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1010**		25.0		mg/Kg			03/31/23 01:55	5

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4382-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-128 10' Lab Sample ID: 890-4382-13

Date Collected: 03/21/23 10:20 **Matrix: Solid**
Date Received: 03/21/23 16:30

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		03/29/23 10:03	04/03/23 01:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/03/23 01:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/03/23 01:50	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 10:03	04/03/23 01:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 10:03	04/03/23 01:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 10:03	04/03/23 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/29/23 10:03*	*04/03/23 01:50*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/29/23 10:03*	*04/03/23 01:50*	*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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 18:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		03/27/23 16:18	03/28/23 18:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 16:18	03/28/23 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*03/27/23 16:18*	*03/28/23 18:29*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*03/27/23 16:18*	*03/28/23 18:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		25.1		mg/Kg			03/31/23 02:09	5

Client Sample ID: C-129 10' Lab Sample ID: 890-4382-14

Date Collected: 03/21/23 10:30 **Matrix: Solid**
Date Received: 03/21/23 16:30

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		03/29/23 10:03	04/03/23 02:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/03/23 02:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/03/23 02:11	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/29/23 10:03	04/03/23 02:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/03/23 02:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/29/23 10:03	04/03/23 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/29/23 10:03*	*04/03/23 02:11*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*03/29/23 10:03*	*04/03/23 02:11*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4382-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-129 10'
Lab Sample ID: 890-4382-14
Date Collected: 03/21/23 10:30 **Matrix: Solid**
Date Received: 03/21/23 16:30

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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 18:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		03/27/23 16:18	03/28/23 18:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 16:18	03/28/23 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*03/27/23 16:18*	*03/28/23 18:51*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*03/27/23 16:18*	*03/28/23 18:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1130**		24.9		mg/Kg			03/31/23 02:14	5

Client Sample ID: C-130 10'
Lab Sample ID: 890-4382-15
Date Collected: 03/21/23 10:40 **Matrix: Solid**
Date Received: 03/21/23 16:30

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		03/29/23 10:03	04/03/23 02:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/29/23 10:03	04/03/23 02:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/29/23 10:03	04/03/23 02:31	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/29/23 10:03	04/03/23 02:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/29/23 10:03	04/03/23 02:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/29/23 10:03	04/03/23 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*03/29/23 10:03*	*04/03/23 02:31*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/29/23 10:03*	*04/03/23 02:31*	*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			04/03/23 15:20	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 19:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		03/27/23 16:18	03/28/23 19:12	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4382-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-130 10'
Lab Sample ID: 890-4382-15
Date Collected: 03/21/23 10:40 **Matrix: Solid**
Date Received: 03/21/23 16:30

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)	<49.8	U	49.8		mg/Kg		03/27/23 16:18	03/28/23 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*03/27/23 16:18*	*03/28/23 19:12*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*03/27/23 16:18*	*03/28/23 19:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**822**		24.8		mg/Kg			03/31/23 02:19	5

Client Sample ID: C-131 10'
Lab Sample ID: 890-4382-16
Date Collected: 03/21/23 10:50 **Matrix: Solid**
Date Received: 03/21/23 16:30

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		03/29/23 10:19	04/01/23 11:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/29/23 10:19	04/01/23 11:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/29/23 10:19	04/01/23 11:11	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/29/23 10:19	04/01/23 11:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/29/23 10:19	04/01/23 11:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/29/23 10:19	04/01/23 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/29/23 10:19*	*04/01/23 11:11*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*03/29/23 10:19*	*04/01/23 11:11*	*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			04/03/23 15:17	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			03/29/23 14:59	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		03/27/23 16:18	03/28/23 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		03/27/23 16:18	03/28/23 19:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 16:18	03/28/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*03/27/23 16:18*	*03/28/23 19:33*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*03/27/23 16:18*	*03/28/23 19:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**427**		5.05		mg/Kg			03/31/23 02:24	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

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)
890-4382-1	C-116 10'	107	78
890-4382-1 MS	C-116 10'	108	88
890-4382-1 MSD	C-116 10'	97	91
890-4382-2	C-117 10'	109	90
890-4382-3	C-118 10'	107	100
890-4382-4	C-119 10'	109	95
890-4382-5	C-120 10'	112	84
890-4382-6	C-121 10'	91	67 S1-
890-4382-7	C-122 10'	106	93
890-4382-8	C-123 10'	113	94
890-4382-9	C-124 10'	111	94
890-4382-10	C-125 10'	111	92
890-4382-11	C-126 10'	114	76
890-4382-12	C-127 10'	116	91
890-4382-13	C-128 10'	111	94
890-4382-14	C-129 10'	108	86
890-4382-15	C-130 10'	113	90
890-4382-16	C-131 10'	109	96
LCS 880-49804/1-A	Lab Control Sample	100	92
LCS 880-49808/1-A	Lab Control Sample	104	88
LCSD 880-49804/2-A	Lab Control Sample Dup	96	90
LCSD 880-49808/2-A	Lab Control Sample Dup	110	88
MB 880-49804/5-A	Method Blank	118	130
MB 880-49808/5-A	Method Blank	100	81
MB 880-49933/5-A	Method Blank	103	79

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)
890-4382-1	C-116 10'	93	115
890-4382-1 MS	C-116 10'	112	120
890-4382-1 MSD	C-116 10'	101	112
890-4382-2	C-117 10'	91	110
890-4382-3	C-118 10'	88	106
890-4382-4	C-119 10'	91	111
890-4382-5	C-120 10'	104	121
890-4382-6	C-121 10'	91	110
890-4382-7	C-122 10'	93	109
890-4382-8	C-123 10'	86	102
890-4382-9	C-124 10'	91	107
890-4382-10	C-125 10'	98	110
890-4382-11	C-126 10'	84	99
890-4382-12	C-127 10'	92	110

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 890-4382-1
Project/Site: Boo Radley SDG: 21-0105-08

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)										
890-4382-13	C-128 10'	96	116										
890-4382-14	C-129 10'	93	111										
890-4382-15	C-130 10'	90	110										
890-4382-16	C-131 10'	94	111										
LCS 880-49658/2-A	Lab Control Sample	125	152 S1+										
LCSD 880-49658/3-A	Lab Control Sample Dup	134 S1+	151 S1+										
MB 880-49658/1-A	Method Blank	112	137 S1+										

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49804/5-A
Matrix: Solid
Analysis Batch: 50101

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49804

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/02/23 20:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/02/23 20:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/02/23 20:16	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/29/23 10:03	04/02/23 20:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:03	04/02/23 20:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/29/23 10:03	04/02/23 20:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*03/29/23 10:03*	*04/02/23 20:16*	*1*
1,4-Difluorobenzene (Surr)	*130*		*70 - 130*	*03/29/23 10:03*	*04/02/23 20:16*	*1*

Lab Sample ID: LCS 880-49804/1-A
Matrix: Solid
Analysis Batch: 50101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49804

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1038		mg/Kg		104	70 - 130		
Toluene			0.100	0.1085		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.09943		mg/Kg		99	70 - 130		
m,p-Xylenes			0.200	0.2023		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1010		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-49804/2-A
Matrix: Solid
Analysis Batch: 50101

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49804

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09513		mg/Kg		95	70 - 130	9	35
Toluene			0.100	0.1008		mg/Kg		101	70 - 130	7	35
Ethylbenzene			0.100	0.09340		mg/Kg		93	70 - 130	6	35
m,p-Xylenes			0.200	0.1907		mg/Kg		95	70 - 130	6	35
o-Xylene			0.100	0.09528		mg/Kg		95	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-4382-1 MS
Matrix: Solid
Analysis Batch: 50101

Client Sample ID: C-116 10'
Prep Type: Total/NA
Prep Batch: 49804

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F1	0.0998	0.06295	F1	mg/Kg		63	70 - 130		
Toluene	<0.00199	U F1	0.0998	0.06931	F1	mg/Kg		69	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

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

Lab Sample ID: 890-4382-1 MS
Matrix: Solid
Analysis Batch: 50101

Client Sample ID: C-116 10'
Prep Type: Total/NA
Prep Batch: 49804

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.0998	0.06579	F1	mg/Kg		66	70 - 130
m,p-Xylenes	<0.00398	U F1	0.200	0.1355	F1	mg/Kg		68	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.06857	F1	mg/Kg		69	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: 890-4382-1 MSD
Matrix: Solid
Analysis Batch: 50101

Client Sample ID: C-116 10'
Prep Type: Total/NA
Prep Batch: 49804

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.06855	F1	mg/Kg		68	70 - 130	9	35
Toluene	<0.00199	U F1	0.100	0.06527	F1	mg/Kg		65	70 - 130	6	35
Ethylbenzene	<0.00199	U F1	0.100	0.05475	F1	mg/Kg		55	70 - 130	18	35
m,p-Xylenes	<0.00398	U F1	0.201	0.1098	F1	mg/Kg		55	70 - 130	21	35
o-Xylene	<0.00199	U F1	0.100	0.05678	F1	mg/Kg		57	70 - 130	19	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 880-49808/5-A
Matrix: Solid
Analysis Batch: 50000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49808

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:19	04/01/23 09:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:19	04/01/23 09:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:19	04/01/23 09:47	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/29/23 10:19	04/01/23 09:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 10:19	04/01/23 09:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/29/23 10:19	04/01/23 09:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/29/23 10:19*	*04/01/23 09:47*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*03/29/23 10:19*	*04/01/23 09:47*	*1*

Lab Sample ID: LCS 880-49808/1-A
Matrix: Solid
Analysis Batch: 50000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49808

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.08736		mg/Kg		87	70 - 130
Toluene			0.100	0.09251		mg/Kg		93	70 - 130
Ethylbenzene			0.100	0.08844		mg/Kg		88	70 - 130
m,p-Xylenes			0.200	0.1836		mg/Kg		92	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

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

Lab Sample ID: LCS 880-49808/1-A
Matrix: Solid
Analysis Batch: 50000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49808

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09446		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: LCSD 880-49808/2-A
Matrix: Solid
Analysis Batch: 50000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49808

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08999		mg/Kg		90	70 - 130	3	35
Toluene			0.100	0.09676		mg/Kg		97	70 - 130	4	35
Ethylbenzene			0.100	0.09340		mg/Kg		93	70 - 130	5	35
m,p-Xylenes			0.200	0.1958		mg/Kg		98	70 - 130	6	35
o-Xylene			0.100	0.1015		mg/Kg		102	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: MB 880-49933/5-A
Matrix: Solid
Analysis Batch: 50000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49933

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:24	03/31/23 23:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:24	03/31/23 23:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:24	03/31/23 23:05	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/30/23 12:24	03/31/23 23:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:24	03/31/23 23:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/30/23 12:24	03/31/23 23:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/30/23 12:24*	*03/31/23 23:05*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*03/30/23 12:24*	*03/31/23 23:05*	*1*

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

Lab Sample ID: MB 880-49658/1-A
Matrix: Solid
Analysis Batch: 49689

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49658

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/27/23 16:18	03/28/23 09:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 16:18	03/28/23 09:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 16:18	03/28/23 09:38	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	03/27/23 16:18	03/28/23 09:38	1
o-Terphenyl (Surr)	137	S1+	70 - 130	03/27/23 16:18	03/28/23 09:38	1

Lab Sample ID: LCS 880-49658/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49689 — **Prep Batch: 49658**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	789.1		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1895	*+	mg/Kg		189	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	125		70 - 130
o-Terphenyl (Surr)	152	S1+	70 - 130

Lab Sample ID: LCSD 880-49658/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49689 — **Prep Batch: 49658**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	833.3		mg/Kg		83	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1901	*+	mg/Kg		190	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	134	S1+	70 - 130
o-Terphenyl (Surr)	151	S1+	70 - 130

Lab Sample ID: 890-4382-1 MS — **Client Sample ID: C-116 10'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49689 — **Prep Batch: 49658**

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	998	1134		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *+	998	1240		mg/Kg		124	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	112		70 - 130
o-Terphenyl (Surr)	120		70 - 130

Lab Sample ID: 890-4382-1 MSD — **Client Sample ID: C-116 10'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49689 — **Prep Batch: 49658**

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	997	995.1		mg/Kg		100	70 - 130	13	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

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

Lab Sample ID: 890-4382-1 MSD
Matrix: Solid
Analysis Batch: 49689

Client Sample ID: C-116 10'
Prep Type: Total/NA
Prep Batch: 49658

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 *+	997	1150		mg/Kg		115	70 - 130	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*101*		*70 - 130*
o-Terphenyl (Surr)	*112*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49886/1-A
Matrix: Solid
Analysis Batch: 49988

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/31/23 01:11	1

Lab Sample ID: LCS 880-49886/2-A
Matrix: Solid
Analysis Batch: 49988

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.8		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-49886/3-A
Matrix: Solid
Analysis Batch: 49988

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.2		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-4382-8 MS
Matrix: Solid
Analysis Batch: 49988

Client Sample ID: C-123 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2070		2510	4610		mg/Kg		102	90 - 110

Lab Sample ID: 890-4382-8 MSD
Matrix: Solid
Analysis Batch: 49988

Client Sample ID: C-123 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2070		2510	4615		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-49876/1-A
Matrix: Solid
Analysis Batch: 50035

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/31/23 19:50	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-49876/2-A
Matrix: Solid
Analysis Batch: 50035

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	256.8		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-49876/3-A
Matrix: Solid
Analysis Batch: 50035

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.2		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-4382-2 MS
Matrix: Solid
Analysis Batch: 50035

Client Sample ID: C-117 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	923		1260	2243		mg/Kg		105	90 - 110		

Lab Sample ID: 890-4382-2 MSD
Matrix: Solid
Analysis Batch: 50035

Client Sample ID: C-117 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	923		1260	2233		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

GC VOA

Prep Batch: 49804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-1	C-116 10'	Total/NA	Solid	5035	
890-4382-2	C-117 10'	Total/NA	Solid	5035	
890-4382-3	C-118 10'	Total/NA	Solid	5035	
890-4382-4	C-119 10'	Total/NA	Solid	5035	
890-4382-5	C-120 10'	Total/NA	Solid	5035	
890-4382-6	C-121 10'	Total/NA	Solid	5035	
890-4382-7	C-122 10'	Total/NA	Solid	5035	
890-4382-8	C-123 10'	Total/NA	Solid	5035	
890-4382-9	C-124 10'	Total/NA	Solid	5035	
890-4382-10	C-125 10'	Total/NA	Solid	5035	
890-4382-11	C-126 10'	Total/NA	Solid	5035	
890-4382-12	C-127 10'	Total/NA	Solid	5035	
890-4382-13	C-128 10'	Total/NA	Solid	5035	
890-4382-14	C-129 10'	Total/NA	Solid	5035	
890-4382-15	C-130 10'	Total/NA	Solid	5035	
MB 880-49804/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49804/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49804/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4382-1 MS	C-116 10'	Total/NA	Solid	5035	
890-4382-1 MSD	C-116 10'	Total/NA	Solid	5035	

Prep Batch: 49808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-16	C-131 10'	Total/NA	Solid	5035	
MB 880-49808/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49808/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49808/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 49933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49933/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 50000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-16	C-131 10'	Total/NA	Solid	8021B	49808
MB 880-49808/5-A	Method Blank	Total/NA	Solid	8021B	49808
MB 880-49933/5-A	Method Blank	Total/NA	Solid	8021B	49933
LCS 880-49808/1-A	Lab Control Sample	Total/NA	Solid	8021B	49808
LCSD 880-49808/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49808

Analysis Batch: 50101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-1	C-116 10'	Total/NA	Solid	8021B	49804
890-4382-2	C-117 10'	Total/NA	Solid	8021B	49804
890-4382-3	C-118 10'	Total/NA	Solid	8021B	49804
890-4382-4	C-119 10'	Total/NA	Solid	8021B	49804
890-4382-5	C-120 10'	Total/NA	Solid	8021B	49804
890-4382-6	C-121 10'	Total/NA	Solid	8021B	49804
890-4382-7	C-122 10'	Total/NA	Solid	8021B	49804
890-4382-8	C-123 10'	Total/NA	Solid	8021B	49804
890-4382-9	C-124 10'	Total/NA	Solid	8021B	49804

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

GC VOA (Continued)

Analysis Batch: 50101 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-10	C-125 10'	Total/NA	Solid	8021B	49804
890-4382-11	C-126 10'	Total/NA	Solid	8021B	49804
890-4382-12	C-127 10'	Total/NA	Solid	8021B	49804
890-4382-13	C-128 10'	Total/NA	Solid	8021B	49804
890-4382-14	C-129 10'	Total/NA	Solid	8021B	49804
890-4382-15	C-130 10'	Total/NA	Solid	8021B	49804
MB 880-49804/5-A	Method Blank	Total/NA	Solid	8021B	49804
LCS 880-49804/1-A	Lab Control Sample	Total/NA	Solid	8021B	49804
LCSD 880-49804/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49804
890-4382-1 MS	C-116 10'	Total/NA	Solid	8021B	49804
890-4382-1 MSD	C-116 10'	Total/NA	Solid	8021B	49804

Analysis Batch: 50220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-1	C-116 10'	Total/NA	Solid	Total BTEX	
890-4382-2	C-117 10'	Total/NA	Solid	Total BTEX	
890-4382-3	C-118 10'	Total/NA	Solid	Total BTEX	
890-4382-4	C-119 10'	Total/NA	Solid	Total BTEX	
890-4382-5	C-120 10'	Total/NA	Solid	Total BTEX	
890-4382-6	C-121 10'	Total/NA	Solid	Total BTEX	
890-4382-7	C-122 10'	Total/NA	Solid	Total BTEX	
890-4382-8	C-123 10'	Total/NA	Solid	Total BTEX	
890-4382-9	C-124 10'	Total/NA	Solid	Total BTEX	
890-4382-10	C-125 10'	Total/NA	Solid	Total BTEX	
890-4382-11	C-126 10'	Total/NA	Solid	Total BTEX	
890-4382-12	C-127 10'	Total/NA	Solid	Total BTEX	
890-4382-13	C-128 10'	Total/NA	Solid	Total BTEX	
890-4382-14	C-129 10'	Total/NA	Solid	Total BTEX	
890-4382-15	C-130 10'	Total/NA	Solid	Total BTEX	
890-4382-16	C-131 10'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-1	C-116 10'	Total/NA	Solid	8015NM Prep	
890-4382-2	C-117 10'	Total/NA	Solid	8015NM Prep	
890-4382-3	C-118 10'	Total/NA	Solid	8015NM Prep	
890-4382-4	C-119 10'	Total/NA	Solid	8015NM Prep	
890-4382-5	C-120 10'	Total/NA	Solid	8015NM Prep	
890-4382-6	C-121 10'	Total/NA	Solid	8015NM Prep	
890-4382-7	C-122 10'	Total/NA	Solid	8015NM Prep	
890-4382-8	C-123 10'	Total/NA	Solid	8015NM Prep	
890-4382-9	C-124 10'	Total/NA	Solid	8015NM Prep	
890-4382-10	C-125 10'	Total/NA	Solid	8015NM Prep	
890-4382-11	C-126 10'	Total/NA	Solid	8015NM Prep	
890-4382-12	C-127 10'	Total/NA	Solid	8015NM Prep	
890-4382-13	C-128 10'	Total/NA	Solid	8015NM Prep	
890-4382-14	C-129 10'	Total/NA	Solid	8015NM Prep	
890-4382-15	C-130 10'	Total/NA	Solid	8015NM Prep	
890-4382-16	C-131 10'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

GC Semi VOA (Continued)

Prep Batch: 49658 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49658/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49658/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4382-1 MS	C-116 10'	Total/NA	Solid	8015NM Prep	
890-4382-1 MSD	C-116 10'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-1	C-116 10'	Total/NA	Solid	8015B NM	49658
890-4382-2	C-117 10'	Total/NA	Solid	8015B NM	49658
890-4382-3	C-118 10'	Total/NA	Solid	8015B NM	49658
890-4382-4	C-119 10'	Total/NA	Solid	8015B NM	49658
890-4382-5	C-120 10'	Total/NA	Solid	8015B NM	49658
890-4382-6	C-121 10'	Total/NA	Solid	8015B NM	49658
890-4382-7	C-122 10'	Total/NA	Solid	8015B NM	49658
890-4382-8	C-123 10'	Total/NA	Solid	8015B NM	49658
890-4382-9	C-124 10'	Total/NA	Solid	8015B NM	49658
890-4382-10	C-125 10'	Total/NA	Solid	8015B NM	49658
890-4382-11	C-126 10'	Total/NA	Solid	8015B NM	49658
890-4382-12	C-127 10'	Total/NA	Solid	8015B NM	49658
890-4382-13	C-128 10'	Total/NA	Solid	8015B NM	49658
890-4382-14	C-129 10'	Total/NA	Solid	8015B NM	49658
890-4382-15	C-130 10'	Total/NA	Solid	8015B NM	49658
890-4382-16	C-131 10'	Total/NA	Solid	8015B NM	49658
MB 880-49658/1-A	Method Blank	Total/NA	Solid	8015B NM	49658
LCS 880-49658/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49658
LCSD 880-49658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49658
890-4382-1 MS	C-116 10'	Total/NA	Solid	8015B NM	49658
890-4382-1 MSD	C-116 10'	Total/NA	Solid	8015B NM	49658

Analysis Batch: 49853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-1	C-116 10'	Total/NA	Solid	8015 NM	
890-4382-2	C-117 10'	Total/NA	Solid	8015 NM	
890-4382-3	C-118 10'	Total/NA	Solid	8015 NM	
890-4382-4	C-119 10'	Total/NA	Solid	8015 NM	
890-4382-5	C-120 10'	Total/NA	Solid	8015 NM	
890-4382-6	C-121 10'	Total/NA	Solid	8015 NM	
890-4382-7	C-122 10'	Total/NA	Solid	8015 NM	
890-4382-8	C-123 10'	Total/NA	Solid	8015 NM	
890-4382-9	C-124 10'	Total/NA	Solid	8015 NM	
890-4382-10	C-125 10'	Total/NA	Solid	8015 NM	
890-4382-11	C-126 10'	Total/NA	Solid	8015 NM	
890-4382-12	C-127 10'	Total/NA	Solid	8015 NM	
890-4382-13	C-128 10'	Total/NA	Solid	8015 NM	
890-4382-14	C-129 10'	Total/NA	Solid	8015 NM	
890-4382-15	C-130 10'	Total/NA	Solid	8015 NM	
890-4382-16	C-131 10'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

HPLC/IC

Leach Batch: 49876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-1	C-116 10'	Soluble	Solid	DI Leach	
890-4382-2	C-117 10'	Soluble	Solid	DI Leach	
890-4382-3	C-118 10'	Soluble	Solid	DI Leach	
890-4382-4	C-119 10'	Soluble	Solid	DI Leach	
890-4382-5	C-120 10'	Soluble	Solid	DI Leach	
890-4382-6	C-121 10'	Soluble	Solid	DI Leach	
890-4382-7	C-122 10'	Soluble	Solid	DI Leach	
MB 880-49876/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49876/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49876/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4382-2 MS	C-117 10'	Soluble	Solid	DI Leach	
890-4382-2 MSD	C-117 10'	Soluble	Solid	DI Leach	

Leach Batch: 49886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-8	C-123 10'	Soluble	Solid	DI Leach	
890-4382-9	C-124 10'	Soluble	Solid	DI Leach	
890-4382-10	C-125 10'	Soluble	Solid	DI Leach	
890-4382-11	C-126 10'	Soluble	Solid	DI Leach	
890-4382-12	C-127 10'	Soluble	Solid	DI Leach	
890-4382-13	C-128 10'	Soluble	Solid	DI Leach	
890-4382-14	C-129 10'	Soluble	Solid	DI Leach	
890-4382-15	C-130 10'	Soluble	Solid	DI Leach	
890-4382-16	C-131 10'	Soluble	Solid	DI Leach	
MB 880-49886/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49886/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49886/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4382-8 MS	C-123 10'	Soluble	Solid	DI Leach	
890-4382-8 MSD	C-123 10'	Soluble	Solid	DI Leach	

Analysis Batch: 49988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-8	C-123 10'	Soluble	Solid	300.0	49886
890-4382-9	C-124 10'	Soluble	Solid	300.0	49886
890-4382-10	C-125 10'	Soluble	Solid	300.0	49886
890-4382-11	C-126 10'	Soluble	Solid	300.0	49886
890-4382-12	C-127 10'	Soluble	Solid	300.0	49886
890-4382-13	C-128 10'	Soluble	Solid	300.0	49886
890-4382-14	C-129 10'	Soluble	Solid	300.0	49886
890-4382-15	C-130 10'	Soluble	Solid	300.0	49886
890-4382-16	C-131 10'	Soluble	Solid	300.0	49886
MB 880-49886/1-A	Method Blank	Soluble	Solid	300.0	49886
LCS 880-49886/2-A	Lab Control Sample	Soluble	Solid	300.0	49886
LCSD 880-49886/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49886
890-4382-8 MS	C-123 10'	Soluble	Solid	300.0	49886
890-4382-8 MSD	C-123 10'	Soluble	Solid	300.0	49886

Analysis Batch: 50035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-1	C-116 10'	Soluble	Solid	300.0	49876
890-4382-2	C-117 10'	Soluble	Solid	300.0	49876

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

HPLC/IC (Continued)

Analysis Batch: 50035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4382-3	C-118 10'	Soluble	Solid	300.0	49876
890-4382-4	C-119 10'	Soluble	Solid	300.0	49876
890-4382-5	C-120 10'	Soluble	Solid	300.0	49876
890-4382-6	C-121 10'	Soluble	Solid	300.0	49876
890-4382-7	C-122 10'	Soluble	Solid	300.0	49876
MB 880-49876/1-A	Method Blank	Soluble	Solid	300.0	49876
LCS 880-49876/2-A	Lab Control Sample	Soluble	Solid	300.0	49876
LCSD 880-49876/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49876
890-4382-2 MS	C-117 10'	Soluble	Solid	300.0	49876
890-4382-2 MSD	C-117 10'	Soluble	Solid	300.0	49876

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

Client Sample ID: C-116 10'

Lab Sample ID: 890-4382-1
Matrix: Solid
Date Collected: 03/21/23 08:20
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/02/23 20:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 12:14	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	49876	03/29/23 16:13	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50035	03/31/23 21:07	SMC	EET MID

Client Sample ID: C-117 10'

Lab Sample ID: 890-4382-2
Matrix: Solid
Date Collected: 03/21/23 08:30
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/02/23 20:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 13:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49876	03/29/23 16:13	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50035	03/31/23 21:12	SMC	EET MID

Client Sample ID: C-118 10'

Lab Sample ID: 890-4382-3
Matrix: Solid
Date Collected: 03/21/23 08:40
Date Received: 03/21/23 16:30

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 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/02/23 21:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 13:43	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49876	03/29/23 16:13	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50035	03/31/23 21:27	SMC	EET MID

Client Sample ID: C-119 10'

Lab Sample ID: 890-4382-4
Matrix: Solid
Date Collected: 03/21/23 08:50
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/02/23 21:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

Client Sample ID: C-119 10'

Lab Sample ID: 890-4382-4
Matrix: Solid
Date Collected: 03/21/23 08:50
Date Received: 03/21/23 16:30

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			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 14:05	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49876	03/29/23 16:13	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50035	03/31/23 21:31	SMC	EET MID

Client Sample ID: C-120 10'

Lab Sample ID: 890-4382-5
Matrix: Solid
Date Collected: 03/21/23 09:00
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/02/23 22:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 14:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49876	03/29/23 16:13	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50035	03/31/23 21:46	SMC	EET MID

Client Sample ID: C-121 10'

Lab Sample ID: 890-4382-6
Matrix: Solid
Date Collected: 03/21/23 09:15
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/02/23 22:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 14:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49876	03/29/23 16:13	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50035	03/31/23 21:51	SMC	EET MID

Client Sample ID: C-122 10'

Lab Sample ID: 890-4382-7
Matrix: Solid
Date Collected: 03/21/23 09:25
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/02/23 22:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 15:10	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

Client Sample ID: C-122 10'

Lab Sample ID: 890-4382-7
Matrix: Solid
Date Collected: 03/21/23 09:25
Date Received: 03/21/23 16:30

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	49876	03/29/23 16:13	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50035	03/31/23 21:56	SMC	EET MID

Client Sample ID: C-123 10'

Lab Sample ID: 890-4382-8
Matrix: Solid
Date Collected: 03/21/23 09:35
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/02/23 23:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 15:32	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49886	03/29/23 16:23	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	49988	03/31/23 01:26	SMC	EET MID

Client Sample ID: C-124 10'

Lab Sample ID: 890-4382-9
Matrix: Solid
Date Collected: 03/21/23 09:40
Date Received: 03/21/23 16:30

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 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/02/23 23:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 15:55	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49886	03/29/23 16:23	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49988	03/31/23 01:40	SMC	EET MID

Client Sample ID: C-125 10'

Lab Sample ID: 890-4382-10
Matrix: Solid
Date Collected: 03/21/23 09:50
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/02/23 23:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 16:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49886	03/29/23 16:23	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	49988	03/31/23 01:45	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

Client Sample ID: C-126 10'

Lab Sample ID: 890-4382-11
Matrix: Solid
Date Collected: 03/21/23 10:00
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/03/23 01:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 17:46	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49886	03/29/23 16:23	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49988	03/31/23 01:50	SMC	EET MID

Client Sample ID: C-127 10'

Lab Sample ID: 890-4382-12
Matrix: Solid
Date Collected: 03/21/23 10:10
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/03/23 01:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 18:08	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49886	03/29/23 16:23	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49988	03/31/23 01:55	SMC	EET MID

Client Sample ID: C-128 10'

Lab Sample ID: 890-4382-13
Matrix: Solid
Date Collected: 03/21/23 10:20
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/03/23 01:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 18:29	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49886	03/29/23 16:23	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49988	03/31/23 02:09	SMC	EET MID

Client Sample ID: C-129 10'

Lab Sample ID: 890-4382-14
Matrix: Solid
Date Collected: 03/21/23 10:30
Date Received: 03/21/23 16:30

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 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/03/23 02:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

Client Sample ID: C-129 10'

Lab Sample ID: 890-4382-14
Matrix: Solid
Date Collected: 03/21/23 10:30
Date Received: 03/21/23 16:30

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			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 18:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49886	03/29/23 16:23	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49988	03/31/23 02:14	SMC	EET MID

Client Sample ID: C-130 10'

Lab Sample ID: 890-4382-15
Matrix: Solid
Date Collected: 03/21/23 10:40
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49804	03/29/23 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50101	04/03/23 02:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 19:12	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49886	03/29/23 16:23	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49988	03/31/23 02:19	SMC	EET MID

Client Sample ID: C-131 10'

Lab Sample ID: 890-4382-16
Matrix: Solid
Date Collected: 03/21/23 10:50
Date Received: 03/21/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49808	03/29/23 10:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50000	04/01/23 11:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			50220	04/03/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			49853	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49658	03/27/23 16:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/28/23 19:33	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	49886	03/29/23 16:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49988	03/31/23 02:24	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.
Project/Site: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

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: 890-4382-1
Project/Site: Boo Radley SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 890-4382-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4382-1	C-116 10'	Solid	03/21/23 08:20	03/21/23 16:30
890-4382-2	C-117 10'	Solid	03/21/23 08:30	03/21/23 16:30
890-4382-3	C-118 10'	Solid	03/21/23 08:40	03/21/23 16:30
890-4382-4	C-119 10'	Solid	03/21/23 08:50	03/21/23 16:30
890-4382-5	C-120 10'	Solid	03/21/23 09:00	03/21/23 16:30
890-4382-6	C-121 10'	Solid	03/21/23 09:15	03/21/23 16:30
890-4382-7	C-122 10'	Solid	03/21/23 09:25	03/21/23 16:30
890-4382-8	C-123 10'	Solid	03/21/23 09:35	03/21/23 16:30
890-4382-9	C-124 10'	Solid	03/21/23 09:40	03/21/23 16:30
890-4382-10	C-125 10'	Solid	03/21/23 09:50	03/21/23 16:30
890-4382-11	C-126 10'	Solid	03/21/23 10:00	03/21/23 16:30
890-4382-12	C-127 10'	Solid	03/21/23 10:10	03/21/23 16:30
890-4382-13	C-128 10'	Solid	03/21/23 10:20	03/21/23 16:30
890-4382-14	C-129 10'	Solid	03/21/23 10:30	03/21/23 16:30
890-4382-15	C-130 10'	Solid	03/21/23 10:40	03/21/23 16:30
890-4382-16	C-131 10'	Solid	03/21/23 10:50	03/21/23 16:30

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No. 2958

CHAIN-OF-CUSTODY

4/3/2023

Larson & Associates, Inc.
Environmental Consultants

890-4382 Chain of Custody

Data Reported to:

DATE: 3/21/23 PAGE 1 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: 1300 12 ARLEY

LAI PROJECT #: 21-0105-08 COLLECTOR: S. BATES

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT / NM

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

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESERVED	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	TOTAL METALS (RCRA)	Semi-VOC	LEAD - TOTAL	D.W. 200.8	OTHER LIST	RCI	TOX	TCLP	TDS	TSS	FLASHPOINT	pH	% MOISTURE	EXPLOSIVES	HEXAVALENT CHROMIUM	CHLORIDE	CYANIDE	PECHLORATE	ANIONS	ALKALINITY	FIELD NOTES
C-116 10'		3/21/23	8:20	S	1				X		X	X	X	X																																		
C-117 10'			8:30		1																																											
C-118 10'			8:40		1																																										
C-119 10'			8:50		1																																										
C-120 10'			9:00		1																																										
C-121 10'			9:15		1																																										
C-122 10'			9:25		1																																										
C-123 10'			9:35		1																																										
C-124 10'			9:40		1																																										
C-125 10'			9:50		1																																										
C-126 10'			10:00		1																																										
C-127 10'			10:10		1																																										
C-128 10'			10:20		1																																										
C-129 10'			10:30		1																																										
C-130 10'			10:40		1																																										
TOTAL																																															

RELINQUISHED BY:(Signature) STANI Bates DATE/TIME 3/21/23 1630 RECEIVED BY: (Signature) Amanda Stutz

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: 7.6/7.4 -0.2 THERM#: TMM-E007
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Page 39 of 42

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

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No. 2959

CHAIN-OF-CUSTODY

4/3/2023

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

DATE: 3/21/23 PAGE 2 OF 2

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: 1300 RADLEY

LAI PROJECT #: 21-0105-08 COLLECTOR: S. 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

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

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 ☐ | 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 ☐	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 ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-131 10'		3/21/23	1015	S	1						X		X	X	X																										X					
TOTAL																																																

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	3/21/23 1630	[signature]
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: 7.1/4.4 -0.3 THERM#: TAM-007
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-4382-1
SDG Number: 21-0105-08

Login Number: 4382
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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?	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.	N/A	Refer to Job Narrative for details.
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: 890-4382-1
SDG Number: 21-0105-08

Login Number: 4382
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 03/23/23 10:27 AM

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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 4/4/2023 10:38:43 AM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

890-4370-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 7/19/2024 10:38:20 AM

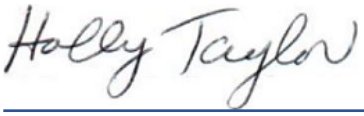
my EOL

Eurofins Carlsbad

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
4/4/2023 10:38:43 AM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 890-4370-1
SDG: 21-0105-08

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QC Association Summary 35
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Method Summary 51
Sample Summary 52
Chain of Custody 53
Receipt Checklists 55

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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.
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: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Job ID: 890-4370-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4370-1

Receipt
The samples were received on 3/20/2023 4:42 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 10.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-92 10' (890-4370-1), C-93 10' (890-4370-2), C-94 10' (890-4370-3), C-95 10' (890-4370-4), C-96 10' (890-4370-5), C-97 10' (890-4370-6), C-98 10' (890-4370-7), C-99 10' (890-4370-8), C-100 10' (890-4370-9), C-101 10' (890-4370-10), C-102 10' (890-4370-11), C-103 10' (890-4370-12), C-104 10' (890-4370-13), C-105 10' (890-4370-14), C-106 10' (890-4370-15), C-107 10' (890-4370-16), C-108 10' (890-4370-17), C-109 10' (890-4370-18), C-110 10' (890-4370-19), C-111 10' (890-4370-20), C-112 10' (890-4370-21), C-113 10' (890-4370-22), C-114 10' (890-4370-23) and C-115 10' (890-4370-24).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-49794 and analytical batch 880-49998 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-49868 and analytical batch 880-49998 was outside the control limits.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-49794 and analytical batch 880-49998 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.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-49651 and analytical batch 880-49691 were outside control limits. Non-homogeneity is 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.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49882 and analytical batch 880-50033 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.C-92 10' (890-4370-1), C-93 10' (890-4370-2), C-94 10' (890-4370-3), C-95 10' (890-4370-4), C-96 10' (890-4370-5), C-97 10' (890-4370-6), C-98 10' (890-4370-7), C-99 10' (890-4370-8), C-100 10' (890-4370-9), C-101 10' (890-4370-10), (890-4370-A-1-H MS) and (890-4370-A-1-I MSD)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49882 and 880-49882 and analytical batch 880-50033 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.C-102 10' (890-4370-11), C-103 10' (890-4370-12), C-104 10' (890-4370-13), C-105 10' (890-4370-14), C-106 10' (890-4370-15), C-107 10' (890-4370-16), C-108 10' (890-4370-17), C-109 10' (890-4370-18), C-110 10' (890-4370-19), C-111 10' (890-4370-20), (890-4370-A-11-D MS) and (890-4370-A-11-E MSD)

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

Released to Imaging: 1/9/2024 10:58:26 AM

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-92 10' Lab Sample ID: 890-4370-1

Date Collected: 03/20/23 10:40 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 05:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/29/23 09:13	04/02/23 05:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/29/23 09:13	04/02/23 05:38	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		03/29/23 09:13	04/02/23 05:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/29/23 09:13	04/02/23 05:38	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/29/23 09:13	04/02/23 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/29/23 09:13*	*04/02/23 05:38*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/29/23 09:13*	*04/02/23 05:38*	*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			04/03/23 16:27	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			03/29/23 12:10	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 F1	49.9		mg/Kg		03/27/23 14:30	03/28/23 12:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 12:14	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*03/27/23 14:30*	*03/28/23 12:14*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*03/27/23 14:30*	*03/28/23 12:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3530**	**F1**	24.8		mg/Kg			03/31/23 15:41	5

Client Sample ID: C-93 10' Lab Sample ID: 890-4370-2

Date Collected: 03/20/23 10:50 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 06:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 06:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 06:05	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 06:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 06:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*03/29/23 09:13*	*04/02/23 06:05*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*03/29/23 09:13*	*04/02/23 06:05*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-93 10' Lab Sample ID: 890-4370-2

Date Collected: 03/20/23 10:50 **Matrix: Solid**
Date Received: 03/20/23 16:42

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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 13:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 13:21	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*03/27/23 14:30*	*03/28/23 13:21*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*03/27/23 14:30*	*03/28/23 13:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3520**		25.2		mg/Kg			03/31/23 15:55	5

Client Sample ID: C-94 10' Lab Sample ID: 890-4370-3

Date Collected: 03/20/23 11:10 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 06:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/29/23 09:13	04/02/23 06:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/29/23 09:13	04/02/23 06:31	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/29/23 09:13	04/02/23 06:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/29/23 09:13	04/02/23 06:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/29/23 09:13	04/02/23 06:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/29/23 09:13*	*04/02/23 06:31*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/29/23 09:13*	*04/02/23 06:31*	*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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 13:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 13:43	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Client Sample ID: C-94 10'

Date Collected: 03/20/23 11:10
Date Received: 03/20/23 16:42

Lab Sample ID: 890-4370-3
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		03/27/23 14:30	03/28/23 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*03/27/23 14:30*	*03/28/23 13:43*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*03/27/23 14:30*	*03/28/23 13:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3960**		24.9		mg/Kg			03/31/23 16:00	5

Client Sample ID: C-95 10'

Date Collected: 03/20/23 11:00
Date Received: 03/20/23 16:42

Lab Sample ID: 890-4370-4
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		04/03/23 08:39	04/03/23 18:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/03/23 08:39	04/03/23 18:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/03/23 08:39	04/03/23 18:34	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		04/03/23 08:39	04/03/23 18:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/03/23 08:39	04/03/23 18:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/03/23 08:39	04/03/23 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*04/03/23 08:39*	*04/03/23 18:34*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*04/03/23 08:39*	*04/03/23 18:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			04/03/23 16:32	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 14:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 14:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*03/27/23 14:30*	*03/28/23 14:05*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*03/27/23 14:30*	*03/28/23 14:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3560**		25.0		mg/Kg			03/31/23 16:05	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Client Sample ID: C-96 10'

Lab Sample ID: 890-4370-5
Matrix: Solid
Date Collected: 03/20/23 11:20
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 07:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 07:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 07:26	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 07:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 07:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 07:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*03/29/23 09:13*	*04/02/23 07:26*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/29/23 09:13*	*04/02/23 07:26*	*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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 14:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 14:27	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*03/27/23 14:30*	*03/28/23 14:27*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*03/27/23 14:30*	*03/28/23 14:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4020**		25.1		mg/Kg			03/31/23 16:10	5

Client Sample ID: C-97 10'

Lab Sample ID: 890-4370-6
Matrix: Solid
Date Collected: 03/20/23 11:30
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 07:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 07:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 07:53	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 07:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 07:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 07:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*03/29/23 09:13*	*04/02/23 07:53*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/29/23 09:13*	*04/02/23 07:53*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-97 10' Lab Sample ID: 890-4370-6

Date Collected: 03/20/23 11:30 **Matrix: Solid**
Date Received: 03/20/23 16:42

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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 14:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 14:49	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*03/27/23 14:30*	*03/28/23 14:49*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*03/27/23 14:30*	*03/28/23 14:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2640**		25.1		mg/Kg			03/31/23 16:24	5

Client Sample ID: C-98 10' Lab Sample ID: 890-4370-7

Date Collected: 03/20/23 11:40 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 08:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 08:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 08:20	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/29/23 09:13	04/02/23 08:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 08:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/29/23 09:13	04/02/23 08:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*03/29/23 09:13*	*04/02/23 08:20*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/29/23 09:13*	*04/02/23 08:20*	*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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 15:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 15:10	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-98 10' Lab Sample ID: 890-4370-7

Date Collected: 03/20/23 11:40 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/27/23 14:30	03/28/23 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*03/27/23 14:30*	*03/28/23 15:10*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*03/27/23 14:30*	*03/28/23 15:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3050**		24.9		mg/Kg			03/31/23 16:29	5

Client Sample ID: C-99 10' Lab Sample ID: 890-4370-8

Date Collected: 03/20/23 11:50 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		04/03/23 08:39	04/03/23 16:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/03/23 08:39	04/03/23 16:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/03/23 08:39	04/03/23 16:04	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/03/23 08:39	04/03/23 16:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/03/23 08:39	04/03/23 16:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/03/23 08:39	04/03/23 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*04/03/23 08:39*	*04/03/23 16:04*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*04/03/23 08:39*	*04/03/23 16:04*	*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			04/03/23 17:26	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 15:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 15:32	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*03/27/23 14:30*	*03/28/23 15:32*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*03/27/23 14:30*	*03/28/23 15:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4830**		24.9		mg/Kg			03/31/23 16:34	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Client Sample ID: C-100 10'

Lab Sample ID: 890-4370-9
Matrix: Solid
Date Collected: 03/20/23 12:00
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 09:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 09:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 09:13	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/29/23 09:13	04/02/23 09:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 09:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/29/23 09:13	04/02/23 09:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/29/23 09:13*	*04/02/23 09:13*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/29/23 09:13*	*04/02/23 09:13*	*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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 15:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*78*		*70 - 130*	*03/27/23 14:30*	*03/28/23 15:55*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*03/27/23 14:30*	*03/28/23 15:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5890**		25.2		mg/Kg			03/31/23 16:38	5

Client Sample ID: C-101 10'

Lab Sample ID: 890-4370-10
Matrix: Solid
Date Collected: 03/20/23 12:10
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 09:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 09:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 09:40	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 09:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 09:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 09:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*03/29/23 09:13*	*04/02/23 09:40*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/29/23 09:13*	*04/02/23 09:40*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-101 10' Lab Sample ID: 890-4370-10

Date Collected: 03/20/23 12:10 **Matrix: Solid**
Date Received: 03/20/23 16:42

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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 16:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 16:18	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*03/27/23 14:30*	*03/28/23 16:18*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*03/27/23 14:30*	*03/28/23 16:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6240**		25.3		mg/Kg			03/31/23 16:43	5

Client Sample ID: C-102 10' Lab Sample ID: 890-4370-11

Date Collected: 03/20/23 12:40 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 11:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 11:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 11:26	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 11:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 11:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/29/23 09:13*	*04/02/23 11:26*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/29/23 09:13*	*04/02/23 11:26*	*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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 17:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 17:46	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Client Sample ID: C-102 10'

Lab Sample ID: 890-4370-11
Matrix: Solid
Date Collected: 03/20/23 12:40
Date Received: 03/20/23 16:42

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		03/27/23 14:30	03/28/23 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*03/27/23 14:30*	*03/28/23 17:46*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*03/27/23 14:30*	*03/28/23 17:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6780**		25.0		mg/Kg			03/31/23 16:48	5

Client Sample ID: C-103 10'

Lab Sample ID: 890-4370-12
Matrix: Solid
Date Collected: 03/20/23 12:30
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 11:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/29/23 09:13	04/02/23 11:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/29/23 09:13	04/02/23 11:52	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/29/23 09:13	04/02/23 11:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/29/23 09:13	04/02/23 11:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/29/23 09:13	04/02/23 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/29/23 09:13*	*04/02/23 11:52*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/29/23 09:13*	*04/02/23 11:52*	*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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 18:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 18:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*03/27/23 14:30*	*03/28/23 18:08*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*03/27/23 14:30*	*03/28/23 18:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4600**		25.1		mg/Kg			03/31/23 17:03	5

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-104 10' Lab Sample ID: 890-4370-13

Date Collected: 03/20/23 12:50 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 12:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 12:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 12:18	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 12:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 12:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/29/23 09:13*	*04/02/23 12:18*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/29/23 09:13*	*04/02/23 12:18*	*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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 18:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 18:29	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*03/27/23 14:30*	*03/28/23 18:29*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*03/27/23 14:30*	*03/28/23 18:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1990**		50.0		mg/Kg			04/03/23 12:41	10

Client Sample ID: C-105 10' Lab Sample ID: 890-4370-14

Date Collected: 03/20/23 13:00 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 12:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/29/23 09:13	04/02/23 12:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/29/23 09:13	04/02/23 12:44	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		03/29/23 09:13	04/02/23 12:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/29/23 09:13	04/02/23 12:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/29/23 09:13	04/02/23 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/29/23 09:13*	*04/02/23 12:44*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/29/23 09:13*	*04/02/23 12:44*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-105 10' Lab Sample ID: 890-4370-14

Date Collected: 03/20/23 13:00 **Matrix: Solid**
Date Received: 03/20/23 16:42

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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 18:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 18:51	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*03/27/23 14:30*	*03/28/23 18:51*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*03/27/23 14:30*	*03/28/23 18:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3410**		25.2		mg/Kg			03/31/23 18:57	5

Client Sample ID: C-106 10' Lab Sample ID: 890-4370-15

Date Collected: 03/20/23 13:10 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 13:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 13:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 13:10	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 13:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:13	04/02/23 13:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 09:13	04/02/23 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/29/23 09:13*	*04/02/23 13:10*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/29/23 09:13*	*04/02/23 13:10*	*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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 19:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/27/23 14:30	03/28/23 19:12	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-106 10' Lab Sample ID: 890-4370-15

Date Collected: 03/20/23 13:10 **Matrix: Solid**
Date Received: 03/20/23 16:42

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)	<49.8	U	49.8		mg/Kg		03/27/23 14:30	03/28/23 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*03/27/23 14:30*	*03/28/23 19:12*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*03/27/23 14:30*	*03/28/23 19:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3930**		25.0		mg/Kg			03/31/23 19:02	5

Client Sample ID: C-107 10' Lab Sample ID: 890-4370-16

Date Collected: 03/20/23 13:25 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 13:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/29/23 09:13	04/02/23 13:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/29/23 09:13	04/02/23 13:36	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/29/23 09:13	04/02/23 13:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/29/23 09:13	04/02/23 13:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/29/23 09:13	04/02/23 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/29/23 09:13*	*04/02/23 13:36*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/29/23 09:13*	*04/02/23 13:36*	*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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 19:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*03/27/23 14:30*	*03/28/23 19:33*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*03/27/23 14:30*	*03/28/23 19:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1850**		49.8		mg/Kg			04/03/23 12:46	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Client Sample ID: C-108 10'

Lab Sample ID: 890-4370-17
Matrix: Solid
Date Collected: 03/20/23 13:35
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 14:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 14:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 14:13	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/29/23 09:13	04/02/23 14:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 14:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/29/23 09:13	04/02/23 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*03/29/23 09:13*	*04/02/23 14:13*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/29/23 09:13*	*04/02/23 14:13*	*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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 19:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 19:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*03/27/23 14:30*	*03/28/23 19:55*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*03/27/23 14:30*	*03/28/23 19:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6260**		25.1		mg/Kg			03/31/23 19:11	5

Client Sample ID: C-109 10'

Lab Sample ID: 890-4370-18
Matrix: Solid
Date Collected: 03/20/23 13:45
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 14:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 14:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 14:40	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/29/23 09:13	04/02/23 14:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 14:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/29/23 09:13	04/02/23 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*03/29/23 09:13*	*04/02/23 14:40*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/29/23 09:13*	*04/02/23 14:40*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-109 10' Lab Sample ID: 890-4370-18

Date Collected: 03/20/23 13:45 **Matrix: Solid**
Date Received: 03/20/23 16:42

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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 20:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 20:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*03/27/23 14:30*	*03/28/23 20:16*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*03/27/23 14:30*	*03/28/23 20:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4600**		24.8		mg/Kg			03/31/23 19:16	5

Client Sample ID: C-110 10' Lab Sample ID: 890-4370-19

Date Collected: 03/20/23 13:55 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 15:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 15:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 15:06	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/29/23 09:13	04/02/23 15:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 15:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/29/23 09:13	04/02/23 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/29/23 09:13*	*04/02/23 15:06*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/29/23 09:13*	*04/02/23 15:06*	*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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 20:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 14:30	03/28/23 20:38	1

Eurofins Carlsbad

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-110 10' Lab Sample ID: 890-4370-19

Date Collected: 03/20/23 13:55 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/27/23 14:30	03/28/23 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*03/27/23 14:30*	*03/28/23 20:38*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*03/27/23 14:30*	*03/28/23 20:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4910**		24.9		mg/Kg			03/31/23 19:21	5

Client Sample ID: C-111 10' Lab Sample ID: 890-4370-20

Date Collected: 03/20/23 14:05 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:13	04/02/23 15:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 15:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 15:33	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/29/23 09:13	04/02/23 15:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 15:33	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/29/23 09:13	04/02/23 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/29/23 09:13*	*04/02/23 15:33*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/29/23 09:13*	*04/02/23 15:33*	*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			04/03/23 16:27	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			03/29/23 12:10	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		03/27/23 14:30	03/28/23 20:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 20:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*03/27/23 14:30*	*03/28/23 20:59*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*03/27/23 14:30*	*03/28/23 20:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5000**		25.2		mg/Kg			03/31/23 19:26	5

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-112 10' Lab Sample ID: 890-4370-21

Date Collected: 03/20/23 14:15 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:50	04/01/23 10:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:50	04/01/23 10:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:50	04/01/23 10:57	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 09:50	04/01/23 10:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:50	04/01/23 10:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 09:50	04/01/23 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/29/23 09:50*	*04/01/23 10:57*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/29/23 09:50*	*04/01/23 10:57*	*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			04/03/23 15:53	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			03/28/23 09:09	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		03/24/23 16:55	03/27/23 17:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/23 16:55	03/27/23 17:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/23 16:55	03/27/23 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*03/24/23 16:55*	*03/27/23 17:54*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*03/24/23 16:55*	*03/27/23 17:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1510**		49.8		mg/Kg			03/30/23 23:37	10

Client Sample ID: C-113 10' Lab Sample ID: 890-4370-22

Date Collected: 03/20/23 14:25 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:50	04/01/23 11:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/29/23 09:50	04/01/23 11:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/29/23 09:50	04/01/23 11:18	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		03/29/23 09:50	04/01/23 11:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/29/23 09:50	04/01/23 11:18	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/29/23 09:50	04/01/23 11:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/29/23 09:50*	*04/01/23 11:18*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*03/29/23 09:50*	*04/01/23 11:18*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-113 10' Lab Sample ID: 890-4370-22

Date Collected: 03/20/23 14:25 **Matrix: Solid**
Date Received: 03/20/23 16:42

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			04/03/23 15:53	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			03/28/23 09:09	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		03/24/23 16:55	03/27/23 18:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/24/23 16:55	03/27/23 18:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/24/23 16:55	03/27/23 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*03/24/23 16:55*	*03/27/23 18:15*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*03/24/23 16:55*	*03/27/23 18:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1540**		50.1		mg/Kg			03/30/23 23:42	10

Client Sample ID: C-114 10' Lab Sample ID: 890-4370-23

Date Collected: 03/20/23 14:35 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:50	04/01/23 11:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:50	04/01/23 11:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:50	04/01/23 11:38	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 09:50	04/01/23 11:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:50	04/01/23 11:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 09:50	04/01/23 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/29/23 09:50*	*04/01/23 11:38*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/29/23 09:50*	*04/01/23 11:38*	*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			04/03/23 15:53	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			03/28/23 09:09	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		03/24/23 16:55	03/27/23 18:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/24/23 16:55	03/27/23 18:36	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

Client Sample ID: C-114 10' Lab Sample ID: 890-4370-23

Date Collected: 03/20/23 14:35 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/24/23 16:55	03/27/23 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*03/24/23 16:55*	*03/27/23 18:36*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*03/24/23 16:55*	*03/27/23 18:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1780**		49.9		mg/Kg			03/30/23 23:46	10

Client Sample ID: C-115 10' Lab Sample ID: 890-4370-24

Date Collected: 03/20/23 14:45 **Matrix: Solid**
Date Received: 03/20/23 16:42

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		03/29/23 09:50	04/01/23 12:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:50	04/01/23 12:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:50	04/01/23 12:15	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 09:50	04/01/23 12:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 09:50	04/01/23 12:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 09:50	04/01/23 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*03/29/23 09:50*	*04/01/23 12:15*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*03/29/23 09:50*	*04/01/23 12:15*	*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			04/03/23 15:53	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			03/28/23 09:09	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		03/24/23 16:55	03/27/23 18:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/23 16:55	03/27/23 18:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/23 16:55	03/27/23 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*03/24/23 16:55*	*03/27/23 18:57*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*03/24/23 16:55*	*03/27/23 18:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1520**		50.3		mg/Kg			03/30/23 23:51	10

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

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)
890-4370-1	C-92 10'	106	92
890-4370-1 MS	C-92 10'	101	89
890-4370-1 MSD	C-92 10'	106	111
890-4370-2	C-93 10'	113	84
890-4370-3	C-94 10'	116	92
890-4370-4	C-95 10'	88	92
890-4370-5	C-96 10'	114	89
890-4370-6	C-97 10'	114	89
890-4370-7	C-98 10'	114	92
890-4370-8	C-99 10'	122	90
890-4370-9	C-100 10'	109	92
890-4370-10	C-101 10'	112	92
890-4370-11	C-102 10'	101	88
890-4370-12	C-103 10'	103	85
890-4370-13	C-104 10'	104	95
890-4370-14	C-105 10'	111	98
890-4370-15	C-106 10'	116	88
890-4370-16	C-107 10'	109	88
890-4370-17	C-108 10'	114	89
890-4370-18	C-109 10'	120	85
890-4370-19	C-110 10'	116	88
890-4370-20	C-111 10'	116	90
890-4370-21	C-112 10'	94	91
890-4370-22	C-113 10'	96	96
890-4370-23	C-114 10'	93	85
890-4370-24	C-115 10'	113	81
LCS 880-49794/1-A	Lab Control Sample	102	105
LCS 880-49803/1-A	Lab Control Sample	115	109
LCS 880-49926/1-A	Lab Control Sample	87	85
LCS 880-50130/1-A	Lab Control Sample	99	111
LCSD 880-49794/2-A	Lab Control Sample Dup	107	100
LCSD 880-49803/2-A	Lab Control Sample Dup	124	114
LCSD 880-49926/2-A	Lab Control Sample Dup	91	87
LCSD 880-50130/2-A	Lab Control Sample Dup	89	117
MB 880-49657/5-A	Method Blank	85	89
MB 880-49794/5-A	Method Blank	66 S1-	86
MB 880-49803/5-A	Method Blank	73	85
MB 880-49868/5-A	Method Blank	65 S1-	86
MB 880-49926/5-A	Method Blank	71	86
MB 880-50130/5-A	Method Blank	77	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

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)										
890-4370-1	C-92 10'	104	99										
890-4370-1 MS	C-92 10'	83	76										
890-4370-1 MSD	C-92 10'	106	88										
890-4370-2	C-93 10'	84	86										
890-4370-3	C-94 10'	99	96										
890-4370-4	C-95 10'	83	84										
890-4370-5	C-96 10'	101	99										
890-4370-6	C-97 10'	89	90										
890-4370-7	C-98 10'	87	85										
890-4370-8	C-99 10'	82	82										
890-4370-9	C-100 10'	78	80										
890-4370-10	C-101 10'	102	94										
890-4370-11	C-102 10'	103	96										
890-4370-12	C-103 10'	101	97										
890-4370-13	C-104 10'	103	99										
890-4370-14	C-105 10'	101	98										
890-4370-15	C-106 10'	84	83										
890-4370-16	C-107 10'	88	85										
890-4370-17	C-108 10'	87	86										
890-4370-18	C-109 10'	86	88										
890-4370-19	C-110 10'	90	90										
890-4370-20	C-111 10'	92	89										
890-4370-21	C-112 10'	99	93										
890-4370-22	C-113 10'	97	89										
890-4370-23	C-114 10'	101	96										
890-4370-24	C-115 10'	97	88										
LCS 880-49457/2-A	Lab Control Sample	93	83										
LCS 880-49651/2-A	Lab Control Sample	92	97										
LCSD 880-49457/3-A	Lab Control Sample Dup	90	81										
LCSD 880-49651/3-A	Lab Control Sample Dup	95	97										
MB 880-49457/1-A	Method Blank	120	118										
MB 880-49651/1-A	Method Blank	103	104										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49657/5-A
Matrix: Solid
Analysis Batch: 49999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49657

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/27/23 16:06	03/31/23 21:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/27/23 16:06	03/31/23 21:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/27/23 16:06	03/31/23 21:58	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/27/23 16:06	03/31/23 21:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/27/23 16:06	03/31/23 21:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/27/23 16:06	03/31/23 21:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*03/27/23 16:06*	*03/31/23 21:58*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/27/23 16:06*	*03/31/23 21:58*	*1*

Lab Sample ID: MB 880-49794/5-A
Matrix: Solid
Analysis Batch: 49998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49794

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 05:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 05:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 05:12	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/29/23 09:13	04/02/23 05:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 05:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/29/23 09:13	04/02/23 05:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*03/29/23 09:13*	*04/02/23 05:12*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*03/29/23 09:13*	*04/02/23 05:12*	*1*

Lab Sample ID: LCS 880-49794/1-A
Matrix: Solid
Analysis Batch: 49998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49794

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1203		mg/Kg		120	70 - 130		
Toluene			0.100	0.1093		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1094		mg/Kg		109	70 - 130		
m,p-Xylenes			0.200	0.2206		mg/Kg		110	70 - 130		
o-Xylene			0.100	0.1129		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-49794/2-A
Matrix: Solid
Analysis Batch: 49998

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49794

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1313	*+	mg/Kg		131	70 - 130	9	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-49794/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49998 — **Prep Batch: 49794**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1172		mg/Kg		117	70 - 130	7	35
Ethylbenzene			0.100	0.1183		mg/Kg		118	70 - 130	8	35
m,p-Xylenes			0.200	0.2382		mg/Kg		119	70 - 130	8	35
o-Xylene			0.100	0.1242		mg/Kg		124	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-4370-1 MS — **Client Sample ID: C-92 10'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49998 — **Prep Batch: 49794**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U *+	0.0998	0.08873		mg/Kg		89	70 - 130
Toluene	<0.00198	U	0.0998	0.08426		mg/Kg		84	70 - 130
Ethylbenzene	<0.00198	U	0.0998	0.08461		mg/Kg		85	70 - 130
m,p-Xylenes	<0.00396	U	0.200	0.1689		mg/Kg		85	70 - 130
o-Xylene	<0.00198	U	0.0998	0.08687		mg/Kg		87	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 890-4370-1 MSD — **Client Sample ID: C-92 10'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49998 — **Prep Batch: 49794**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U *+	0.100	0.1126		mg/Kg		112	70 - 130	24	35
Toluene	<0.00198	U	0.100	0.1001		mg/Kg		99	70 - 130	17	35
Ethylbenzene	<0.00198	U	0.100	0.09889		mg/Kg		98	70 - 130	16	35
m,p-Xylenes	<0.00396	U	0.201	0.1980		mg/Kg		99	70 - 130	16	35
o-Xylene	<0.00198	U	0.100	0.1003		mg/Kg		100	70 - 130	14	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: MB 880-49803/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49999 — **Prep Batch: 49803**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:50	04/01/23 08:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:50	04/01/23 08:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:50	04/01/23 08:32	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/29/23 09:50	04/01/23 08:32	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-49803/5-A
Matrix: Solid
Analysis Batch: 49999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49803

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:50	04/01/23 08:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/29/23 09:50	04/01/23 08:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*03/29/23 09:50*	*04/01/23 08:32*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/29/23 09:50*	*04/01/23 08:32*	*1*

Lab Sample ID: LCS 880-49803/1-A
Matrix: Solid
Analysis Batch: 49999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49803

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09795		mg/Kg		98	70 - 130		
Toluene			0.100	0.08989		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09384		mg/Kg		94	70 - 130		
m,p-Xylenes			0.200	0.1991		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.1036		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-49803/2-A
Matrix: Solid
Analysis Batch: 49999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49803

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1008		mg/Kg		101	70 - 130	3	35
Toluene			0.100	0.09274		mg/Kg		93	70 - 130	3	35
Ethylbenzene			0.100	0.1014		mg/Kg		101	70 - 130	8	35
m,p-Xylenes			0.200	0.2134		mg/Kg		107	70 - 130	7	35
o-Xylene			0.100	0.1112		mg/Kg		111	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: MB 880-49868/5-A
Matrix: Solid
Analysis Batch: 49998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49868

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 15:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 15:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 15:42	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/29/23 15:38	04/01/23 15:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 15:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/29/23 15:38	04/01/23 15:42	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130	03/29/23 15:38	04/01/23 15:42	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/29/23 15:38	04/01/23 15:42	1

Lab Sample ID: MB 880-49926/5-A
Matrix: Solid
Analysis Batch: 50120

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49926

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/30/23 10:55	04/03/23 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/30/23 10:55	04/03/23 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/30/23 10:55	04/03/23 11:40	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/30/23 10:55	04/03/23 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/30/23 10:55	04/03/23 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/30/23 10:55	04/03/23 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	03/30/23 10:55	04/03/23 11:40	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/30/23 10:55	04/03/23 11:40	1

Lab Sample ID: LCS 880-49926/1-A
Matrix: Solid
Analysis Batch: 50120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49926

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1258		mg/Kg		125	70 - 130		
Toluene			0.101	0.1090		mg/Kg		108	70 - 130		
Ethylbenzene			0.100	0.1120		mg/Kg		112	70 - 130		
m,p-Xylenes			0.201	0.2274		mg/Kg		113	70 - 130		
o-Xylene			0.101	0.1136		mg/Kg		113	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-49926/2-A
Matrix: Solid
Analysis Batch: 50120

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49926

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1074		mg/Kg		107	70 - 130	16	35
Toluene			0.101	0.1032		mg/Kg		103	70 - 130	5	35
Ethylbenzene			0.100	0.1040		mg/Kg		104	70 - 130	7	35
m,p-Xylenes			0.201	0.2110		mg/Kg		105	70 - 130	7	35
o-Xylene			0.101	0.1053		mg/Kg		105	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-50130/5-A
Matrix: Solid
Analysis Batch: 50119

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50130

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 11:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 11:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 11:01	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/03/23 08:39	04/03/23 11:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 11:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/03/23 08:39	04/03/23 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*04/03/23 08:39*	*04/03/23 11:01*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/03/23 08:39*	*04/03/23 11:01*	*1*

Lab Sample ID: LCS 880-50130/1-A
Matrix: Solid
Analysis Batch: 50119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50130

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1190		mg/Kg		119	70 - 130		
Toluene			0.100	0.1022		mg/Kg		102	70 - 130		
Ethylbenzene			0.100	0.09825		mg/Kg		98	70 - 130		
m,p-Xylenes			0.200	0.2029		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1017		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-50130/2-A
Matrix: Solid
Analysis Batch: 50119

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50130

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1186		mg/Kg		119	70 - 130	0	35
Toluene			0.100	0.09718		mg/Kg		97	70 - 130	5	35
Ethylbenzene			0.100	0.08856		mg/Kg		89	70 - 130	10	35
m,p-Xylenes			0.200	0.1774		mg/Kg		89	70 - 130	13	35
o-Xylene			0.100	0.08922		mg/Kg		89	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-49457/1-A
Matrix: Solid
Analysis Batch: 49559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49457

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/24/23 16:55	03/27/23 08:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/23 16:55	03/27/23 08:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/23 16:55	03/27/23 08:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*03/24/23 16:55*	*03/27/23 08:47*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*03/24/23 16:55*	*03/27/23 08:47*	*1*

Lab Sample ID: LCS 880-49457/2-A
Matrix: Solid
Analysis Batch: 49559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49457

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1022		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	876.8		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*93*		*70 - 130*
o-Terphenyl (Surr)	*83*		*70 - 130*

Lab Sample ID: LCSD 880-49457/3-A
Matrix: Solid
Analysis Batch: 49559

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49457

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	861.9		mg/Kg		86	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	864.3		mg/Kg		86	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*90*		*70 - 130*
o-Terphenyl (Surr)	*81*		*70 - 130*

Lab Sample ID: MB 880-49651/1-A
Matrix: Solid
Analysis Batch: 49691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49651

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 09:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 09:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 14:30	03/28/23 09:38	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-49651/1-A
Matrix: Solid
Analysis Batch: 49691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49651

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	03/27/23 14:30	03/28/23 09:38	1
o-Terphenyl (Surr)	104		70 - 130	03/27/23 14:30	03/28/23 09:38	1

Lab Sample ID: LCS 880-49651/2-A
Matrix: Solid
Analysis Batch: 49691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49651

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	933.9		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	828.6		mg/Kg		83	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-49651/3-A
Matrix: Solid
Analysis Batch: 49691

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49651

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	941.5		mg/Kg		94	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	849.8		mg/Kg		85	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: 890-4370-1 MS
Matrix: Solid
Analysis Batch: 49691

Client Sample ID: C-92 10'
Prep Type: Total/NA
Prep Batch: 49651

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 F1	998	825.8		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	805.8		mg/Kg		79	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	83		70 - 130
o-Terphenyl (Surr)	76		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

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

Lab Sample ID: 890-4370-1 MSD — **Client Sample ID: C-92 10'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49691 — **Prep Batch: 49651**

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 F1	999	685.3	F1	mg/Kg		66	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	932.2		mg/Kg		92	70 - 130	15	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*106*		*70 - 130*
o-Terphenyl (Surr)	*88*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49882/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50033

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/31/23 15:26	1

Lab Sample ID: LCS 880-49882/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50033

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.3		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-49882/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50033

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	260.0		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-4370-1 MS — **Client Sample ID: C-92 10'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50033

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3530	F1	1240	1883	F1	mg/Kg		-133	90 - 110		

Lab Sample ID: 890-4370-1 MSD — **Client Sample ID: C-92 10'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50033

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3530	F1	1240	1986	F1	mg/Kg		-124	90 - 110	5	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4370-11 MS — **Client Sample ID: C-102 10'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50033

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6780		1250	2486	4	mg/Kg		-344	90 - 110

Lab Sample ID: 890-4370-11 MSD — **Client Sample ID: C-102 10'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50033

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6780		1250	2740	4	mg/Kg		-324	90 - 110	10	20

Lab Sample ID: MB 880-49884/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50034

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/30/23 22:29	1

Lab Sample ID: LCS 880-49884/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50034

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	261.5		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-49884/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50034

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	261.8		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-4370-24 MS — **Client Sample ID: C-115 10'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50034

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1520		2520	4138		mg/Kg		104	90 - 110

Lab Sample ID: 890-4370-24 MSD — **Client Sample ID: C-115 10'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 50034

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1520		2520	4134		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

GC VOA

Prep Batch: 49657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49657/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 49794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-1	C-92 10'	Total/NA	Solid	5035	
890-4370-2	C-93 10'	Total/NA	Solid	5035	
890-4370-3	C-94 10'	Total/NA	Solid	5035	
890-4370-5	C-96 10'	Total/NA	Solid	5035	
890-4370-6	C-97 10'	Total/NA	Solid	5035	
890-4370-7	C-98 10'	Total/NA	Solid	5035	
890-4370-9	C-100 10'	Total/NA	Solid	5035	
890-4370-10	C-101 10'	Total/NA	Solid	5035	
890-4370-11	C-102 10'	Total/NA	Solid	5035	
890-4370-12	C-103 10'	Total/NA	Solid	5035	
890-4370-13	C-104 10'	Total/NA	Solid	5035	
890-4370-14	C-105 10'	Total/NA	Solid	5035	
890-4370-15	C-106 10'	Total/NA	Solid	5035	
890-4370-16	C-107 10'	Total/NA	Solid	5035	
890-4370-17	C-108 10'	Total/NA	Solid	5035	
890-4370-18	C-109 10'	Total/NA	Solid	5035	
890-4370-19	C-110 10'	Total/NA	Solid	5035	
890-4370-20	C-111 10'	Total/NA	Solid	5035	
MB 880-49794/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49794/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49794/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4370-1 MS	C-92 10'	Total/NA	Solid	5035	
890-4370-1 MSD	C-92 10'	Total/NA	Solid	5035	

Prep Batch: 49803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-21	C-112 10'	Total/NA	Solid	5035	
890-4370-22	C-113 10'	Total/NA	Solid	5035	
890-4370-23	C-114 10'	Total/NA	Solid	5035	
890-4370-24	C-115 10'	Total/NA	Solid	5035	
MB 880-49803/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49803/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49803/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 49868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49868/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 49926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49926/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49926/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49926/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 49998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-1	C-92 10'	Total/NA	Solid	8021B	49794

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

GC VOA (Continued)

Analysis Batch: 49998 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-2	C-93 10'	Total/NA	Solid	8021B	49794
890-4370-3	C-94 10'	Total/NA	Solid	8021B	49794
890-4370-5	C-96 10'	Total/NA	Solid	8021B	49794
890-4370-6	C-97 10'	Total/NA	Solid	8021B	49794
890-4370-7	C-98 10'	Total/NA	Solid	8021B	49794
890-4370-9	C-100 10'	Total/NA	Solid	8021B	49794
890-4370-10	C-101 10'	Total/NA	Solid	8021B	49794
890-4370-11	C-102 10'	Total/NA	Solid	8021B	49794
890-4370-12	C-103 10'	Total/NA	Solid	8021B	49794
890-4370-13	C-104 10'	Total/NA	Solid	8021B	49794
890-4370-14	C-105 10'	Total/NA	Solid	8021B	49794
890-4370-15	C-106 10'	Total/NA	Solid	8021B	49794
890-4370-16	C-107 10'	Total/NA	Solid	8021B	49794
890-4370-17	C-108 10'	Total/NA	Solid	8021B	49794
890-4370-18	C-109 10'	Total/NA	Solid	8021B	49794
890-4370-19	C-110 10'	Total/NA	Solid	8021B	49794
890-4370-20	C-111 10'	Total/NA	Solid	8021B	49794
MB 880-49794/5-A	Method Blank	Total/NA	Solid	8021B	49794
MB 880-49868/5-A	Method Blank	Total/NA	Solid	8021B	49868
LCS 880-49794/1-A	Lab Control Sample	Total/NA	Solid	8021B	49794
LCSD 880-49794/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49794
890-4370-1 MS	C-92 10'	Total/NA	Solid	8021B	49794
890-4370-1 MSD	C-92 10'	Total/NA	Solid	8021B	49794

Analysis Batch: 49999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-21	C-112 10'	Total/NA	Solid	8021B	49803
890-4370-22	C-113 10'	Total/NA	Solid	8021B	49803
890-4370-23	C-114 10'	Total/NA	Solid	8021B	49803
890-4370-24	C-115 10'	Total/NA	Solid	8021B	49803
MB 880-49657/5-A	Method Blank	Total/NA	Solid	8021B	49657
MB 880-49803/5-A	Method Blank	Total/NA	Solid	8021B	49803
LCS 880-49803/1-A	Lab Control Sample	Total/NA	Solid	8021B	49803
LCSD 880-49803/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49803

Analysis Batch: 50119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-4	C-95 10'	Total/NA	Solid	8021B	50130
MB 880-50130/5-A	Method Blank	Total/NA	Solid	8021B	50130
LCS 880-50130/1-A	Lab Control Sample	Total/NA	Solid	8021B	50130
LCSD 880-50130/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50130

Analysis Batch: 50120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-8	C-99 10'	Total/NA	Solid	8021B	50130
MB 880-49926/5-A	Method Blank	Total/NA	Solid	8021B	49926
LCS 880-49926/1-A	Lab Control Sample	Total/NA	Solid	8021B	49926
LCSD 880-49926/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49926

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

GC VOA

Prep Batch: 50130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-4	C-95 10'	Total/NA	Solid	5035	
890-4370-8	C-99 10'	Total/NA	Solid	5035	
MB 880-50130/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50130/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50130/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 50244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-1	C-92 10'	Total/NA	Solid	Total BTEX	
890-4370-2	C-93 10'	Total/NA	Solid	Total BTEX	
890-4370-3	C-94 10'	Total/NA	Solid	Total BTEX	
890-4370-4	C-95 10'	Total/NA	Solid	Total BTEX	
890-4370-5	C-96 10'	Total/NA	Solid	Total BTEX	
890-4370-6	C-97 10'	Total/NA	Solid	Total BTEX	
890-4370-7	C-98 10'	Total/NA	Solid	Total BTEX	
890-4370-8	C-99 10'	Total/NA	Solid	Total BTEX	
890-4370-9	C-100 10'	Total/NA	Solid	Total BTEX	
890-4370-10	C-101 10'	Total/NA	Solid	Total BTEX	
890-4370-11	C-102 10'	Total/NA	Solid	Total BTEX	
890-4370-12	C-103 10'	Total/NA	Solid	Total BTEX	
890-4370-13	C-104 10'	Total/NA	Solid	Total BTEX	
890-4370-14	C-105 10'	Total/NA	Solid	Total BTEX	
890-4370-15	C-106 10'	Total/NA	Solid	Total BTEX	
890-4370-16	C-107 10'	Total/NA	Solid	Total BTEX	
890-4370-17	C-108 10'	Total/NA	Solid	Total BTEX	
890-4370-18	C-109 10'	Total/NA	Solid	Total BTEX	
890-4370-19	C-110 10'	Total/NA	Solid	Total BTEX	
890-4370-20	C-111 10'	Total/NA	Solid	Total BTEX	
890-4370-21	C-112 10'	Total/NA	Solid	Total BTEX	
890-4370-22	C-113 10'	Total/NA	Solid	Total BTEX	
890-4370-23	C-114 10'	Total/NA	Solid	Total BTEX	
890-4370-24	C-115 10'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-21	C-112 10'	Total/NA	Solid	8015NM Prep	
890-4370-22	C-113 10'	Total/NA	Solid	8015NM Prep	
890-4370-23	C-114 10'	Total/NA	Solid	8015NM Prep	
890-4370-24	C-115 10'	Total/NA	Solid	8015NM Prep	
MB 880-49457/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49457/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49457/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-21	C-112 10'	Total/NA	Solid	8015B NM	49457
890-4370-22	C-113 10'	Total/NA	Solid	8015B NM	49457
890-4370-23	C-114 10'	Total/NA	Solid	8015B NM	49457
890-4370-24	C-115 10'	Total/NA	Solid	8015B NM	49457

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

GC Semi VOA (Continued)

Analysis Batch: 49559 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49457/1-A	Method Blank	Total/NA	Solid	8015B NM	49457
LCS 880-49457/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49457
LCSD 880-49457/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49457

Prep Batch: 49651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-1	C-92 10'	Total/NA	Solid	8015NM Prep	
890-4370-2	C-93 10'	Total/NA	Solid	8015NM Prep	
890-4370-3	C-94 10'	Total/NA	Solid	8015NM Prep	
890-4370-4	C-95 10'	Total/NA	Solid	8015NM Prep	
890-4370-5	C-96 10'	Total/NA	Solid	8015NM Prep	
890-4370-6	C-97 10'	Total/NA	Solid	8015NM Prep	
890-4370-7	C-98 10'	Total/NA	Solid	8015NM Prep	
890-4370-8	C-99 10'	Total/NA	Solid	8015NM Prep	
890-4370-9	C-100 10'	Total/NA	Solid	8015NM Prep	
890-4370-10	C-101 10'	Total/NA	Solid	8015NM Prep	
890-4370-11	C-102 10'	Total/NA	Solid	8015NM Prep	
890-4370-12	C-103 10'	Total/NA	Solid	8015NM Prep	
890-4370-13	C-104 10'	Total/NA	Solid	8015NM Prep	
890-4370-14	C-105 10'	Total/NA	Solid	8015NM Prep	
890-4370-15	C-106 10'	Total/NA	Solid	8015NM Prep	
890-4370-16	C-107 10'	Total/NA	Solid	8015NM Prep	
890-4370-17	C-108 10'	Total/NA	Solid	8015NM Prep	
890-4370-18	C-109 10'	Total/NA	Solid	8015NM Prep	
890-4370-19	C-110 10'	Total/NA	Solid	8015NM Prep	
890-4370-20	C-111 10'	Total/NA	Solid	8015NM Prep	
MB 880-49651/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49651/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49651/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4370-1 MS	C-92 10'	Total/NA	Solid	8015NM Prep	
890-4370-1 MSD	C-92 10'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-1	C-92 10'	Total/NA	Solid	8015B NM	49651
890-4370-2	C-93 10'	Total/NA	Solid	8015B NM	49651
890-4370-3	C-94 10'	Total/NA	Solid	8015B NM	49651
890-4370-4	C-95 10'	Total/NA	Solid	8015B NM	49651
890-4370-5	C-96 10'	Total/NA	Solid	8015B NM	49651
890-4370-6	C-97 10'	Total/NA	Solid	8015B NM	49651
890-4370-7	C-98 10'	Total/NA	Solid	8015B NM	49651
890-4370-8	C-99 10'	Total/NA	Solid	8015B NM	49651
890-4370-9	C-100 10'	Total/NA	Solid	8015B NM	49651
890-4370-10	C-101 10'	Total/NA	Solid	8015B NM	49651
890-4370-11	C-102 10'	Total/NA	Solid	8015B NM	49651
890-4370-12	C-103 10'	Total/NA	Solid	8015B NM	49651
890-4370-13	C-104 10'	Total/NA	Solid	8015B NM	49651
890-4370-14	C-105 10'	Total/NA	Solid	8015B NM	49651
890-4370-15	C-106 10'	Total/NA	Solid	8015B NM	49651
890-4370-16	C-107 10'	Total/NA	Solid	8015B NM	49651
890-4370-17	C-108 10'	Total/NA	Solid	8015B NM	49651

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

GC Semi VOA (Continued)

Analysis Batch: 49691 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-18	C-109 10'	Total/NA	Solid	8015B NM	49651
890-4370-19	C-110 10'	Total/NA	Solid	8015B NM	49651
890-4370-20	C-111 10'	Total/NA	Solid	8015B NM	49651
MB 880-49651/1-A	Method Blank	Total/NA	Solid	8015B NM	49651
LCS 880-49651/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49651
LCSD 880-49651/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49651
890-4370-1 MS	C-92 10'	Total/NA	Solid	8015B NM	49651
890-4370-1 MSD	C-92 10'	Total/NA	Solid	8015B NM	49651

Analysis Batch: 49694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-1	C-92 10'	Total/NA	Solid	8015 NM	
890-4370-2	C-93 10'	Total/NA	Solid	8015 NM	
890-4370-3	C-94 10'	Total/NA	Solid	8015 NM	
890-4370-4	C-95 10'	Total/NA	Solid	8015 NM	
890-4370-5	C-96 10'	Total/NA	Solid	8015 NM	
890-4370-6	C-97 10'	Total/NA	Solid	8015 NM	
890-4370-7	C-98 10'	Total/NA	Solid	8015 NM	
890-4370-8	C-99 10'	Total/NA	Solid	8015 NM	
890-4370-9	C-100 10'	Total/NA	Solid	8015 NM	
890-4370-10	C-101 10'	Total/NA	Solid	8015 NM	
890-4370-11	C-102 10'	Total/NA	Solid	8015 NM	
890-4370-12	C-103 10'	Total/NA	Solid	8015 NM	
890-4370-13	C-104 10'	Total/NA	Solid	8015 NM	
890-4370-14	C-105 10'	Total/NA	Solid	8015 NM	
890-4370-15	C-106 10'	Total/NA	Solid	8015 NM	
890-4370-16	C-107 10'	Total/NA	Solid	8015 NM	
890-4370-17	C-108 10'	Total/NA	Solid	8015 NM	
890-4370-18	C-109 10'	Total/NA	Solid	8015 NM	
890-4370-19	C-110 10'	Total/NA	Solid	8015 NM	
890-4370-20	C-111 10'	Total/NA	Solid	8015 NM	
890-4370-21	C-112 10'	Total/NA	Solid	8015 NM	
890-4370-22	C-113 10'	Total/NA	Solid	8015 NM	
890-4370-23	C-114 10'	Total/NA	Solid	8015 NM	
890-4370-24	C-115 10'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-1	C-92 10'	Soluble	Solid	DI Leach	
890-4370-2	C-93 10'	Soluble	Solid	DI Leach	
890-4370-3	C-94 10'	Soluble	Solid	DI Leach	
890-4370-4	C-95 10'	Soluble	Solid	DI Leach	
890-4370-5	C-96 10'	Soluble	Solid	DI Leach	
890-4370-6	C-97 10'	Soluble	Solid	DI Leach	
890-4370-7	C-98 10'	Soluble	Solid	DI Leach	
890-4370-8	C-99 10'	Soluble	Solid	DI Leach	
890-4370-9	C-100 10'	Soluble	Solid	DI Leach	
890-4370-10	C-101 10'	Soluble	Solid	DI Leach	
890-4370-11	C-102 10'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

HPLC/IC (Continued)

Leach Batch: 49882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-12	C-103 10'	Soluble	Solid	DI Leach	
890-4370-13	C-104 10'	Soluble	Solid	DI Leach	
890-4370-14	C-105 10'	Soluble	Solid	DI Leach	
890-4370-15	C-106 10'	Soluble	Solid	DI Leach	
890-4370-16	C-107 10'	Soluble	Solid	DI Leach	
890-4370-17	C-108 10'	Soluble	Solid	DI Leach	
890-4370-18	C-109 10'	Soluble	Solid	DI Leach	
890-4370-19	C-110 10'	Soluble	Solid	DI Leach	
890-4370-20	C-111 10'	Soluble	Solid	DI Leach	
MB 880-49882/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49882/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49882/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4370-1 MS	C-92 10'	Soluble	Solid	DI Leach	
890-4370-1 MSD	C-92 10'	Soluble	Solid	DI Leach	
890-4370-11 MS	C-102 10'	Soluble	Solid	DI Leach	
890-4370-11 MSD	C-102 10'	Soluble	Solid	DI Leach	

Leach Batch: 49884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-21	C-112 10'	Soluble	Solid	DI Leach	
890-4370-22	C-113 10'	Soluble	Solid	DI Leach	
890-4370-23	C-114 10'	Soluble	Solid	DI Leach	
890-4370-24	C-115 10'	Soluble	Solid	DI Leach	
MB 880-49884/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49884/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49884/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4370-24 MS	C-115 10'	Soluble	Solid	DI Leach	
890-4370-24 MSD	C-115 10'	Soluble	Solid	DI Leach	

Analysis Batch: 50033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-1	C-92 10'	Soluble	Solid	300.0	49882
890-4370-2	C-93 10'	Soluble	Solid	300.0	49882
890-4370-3	C-94 10'	Soluble	Solid	300.0	49882
890-4370-4	C-95 10'	Soluble	Solid	300.0	49882
890-4370-5	C-96 10'	Soluble	Solid	300.0	49882
890-4370-6	C-97 10'	Soluble	Solid	300.0	49882
890-4370-7	C-98 10'	Soluble	Solid	300.0	49882
890-4370-8	C-99 10'	Soluble	Solid	300.0	49882
890-4370-9	C-100 10'	Soluble	Solid	300.0	49882
890-4370-10	C-101 10'	Soluble	Solid	300.0	49882
890-4370-11	C-102 10'	Soluble	Solid	300.0	49882
890-4370-12	C-103 10'	Soluble	Solid	300.0	49882
890-4370-13	C-104 10'	Soluble	Solid	300.0	49882
890-4370-14	C-105 10'	Soluble	Solid	300.0	49882
890-4370-15	C-106 10'	Soluble	Solid	300.0	49882
890-4370-16	C-107 10'	Soluble	Solid	300.0	49882
890-4370-17	C-108 10'	Soluble	Solid	300.0	49882
890-4370-18	C-109 10'	Soluble	Solid	300.0	49882
890-4370-19	C-110 10'	Soluble	Solid	300.0	49882
890-4370-20	C-111 10'	Soluble	Solid	300.0	49882

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

HPLC/IC (Continued)

Analysis Batch: 50033 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49882/1-A	Method Blank	Soluble	Solid	300.0	49882
LCS 880-49882/2-A	Lab Control Sample	Soluble	Solid	300.0	49882
LCSD 880-49882/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49882
890-4370-1 MS	C-92 10'	Soluble	Solid	300.0	49882
890-4370-1 MSD	C-92 10'	Soluble	Solid	300.0	49882
890-4370-11 MS	C-102 10'	Soluble	Solid	300.0	49882
890-4370-11 MSD	C-102 10'	Soluble	Solid	300.0	49882

Analysis Batch: 50034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4370-21	C-112 10'	Soluble	Solid	300.0	49884
890-4370-22	C-113 10'	Soluble	Solid	300.0	49884
890-4370-23	C-114 10'	Soluble	Solid	300.0	49884
890-4370-24	C-115 10'	Soluble	Solid	300.0	49884
MB 880-49884/1-A	Method Blank	Soluble	Solid	300.0	49884
LCS 880-49884/2-A	Lab Control Sample	Soluble	Solid	300.0	49884
LCSD 880-49884/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49884
890-4370-24 MS	C-115 10'	Soluble	Solid	300.0	49884
890-4370-24 MSD	C-115 10'	Soluble	Solid	300.0	49884

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Client Sample ID: C-92 10'

Lab Sample ID: 890-4370-1
Matrix: Solid
Date Collected: 03/20/23 10:40
Date Received: 03/20/23 16:42

Prep 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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 05:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 12:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 15:41	SMC	EET MID

Client Sample ID: C-93 10'

Lab Sample ID: 890-4370-2
Matrix: Solid
Date Collected: 03/20/23 10:50
Date Received: 03/20/23 16:42

Prep 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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 06:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 13:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 15:55	SMC	EET MID

Client Sample ID: C-94 10'

Lab Sample ID: 890-4370-3
Matrix: Solid
Date Collected: 03/20/23 11:10
Date Received: 03/20/23 16:42

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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 06:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 13:43	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 16:00	SMC	EET MID

Client Sample ID: C-95 10'

Lab Sample ID: 890-4370-4
Matrix: Solid
Date Collected: 03/20/23 11:00
Date Received: 03/20/23 16:42

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	50130	04/03/23 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50119	04/03/23 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:32	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Client Sample ID: C-95 10'

Lab Sample ID: 890-4370-4
Matrix: Solid
Date Collected: 03/20/23 11:00
Date Received: 03/20/23 16:42

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			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 14:05	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 16:05	SMC	EET MID

Client Sample ID: C-96 10'

Lab Sample ID: 890-4370-5
Matrix: Solid
Date Collected: 03/20/23 11:20
Date Received: 03/20/23 16:42

Prep 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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 07:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 14:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 16:10	SMC	EET MID

Client Sample ID: C-97 10'

Lab Sample ID: 890-4370-6
Matrix: Solid
Date Collected: 03/20/23 11:30
Date Received: 03/20/23 16:42

Prep 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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 07:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 14:49	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 16:24	SMC	EET MID

Client Sample ID: C-98 10'

Lab Sample ID: 890-4370-7
Matrix: Solid
Date Collected: 03/20/23 11:40
Date Received: 03/20/23 16:42

Prep 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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 08:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 15:10	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Client Sample ID: C-98 10'

Lab Sample ID: 890-4370-7
Matrix: Solid
Date Collected: 03/20/23 11:40
Date Received: 03/20/23 16:42

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	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 16:29	SMC	EET MID

Client Sample ID: C-99 10'

Lab Sample ID: 890-4370-8
Matrix: Solid
Date Collected: 03/20/23 11:50
Date Received: 03/20/23 16:42

Prep 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	50130	04/03/23 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50120	04/03/23 16:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 17:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 15:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 16:34	SMC	EET MID

Client Sample ID: C-100 10'

Lab Sample ID: 890-4370-9
Matrix: Solid
Date Collected: 03/20/23 12:00
Date Received: 03/20/23 16:42

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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 09:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 15:55	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 16:38	SMC	EET MID

Client Sample ID: C-101 10'

Lab Sample ID: 890-4370-10
Matrix: Solid
Date Collected: 03/20/23 12:10
Date Received: 03/20/23 16:42

Prep 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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 09:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 16:18	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 16:43	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Client Sample ID: C-102 10'

Lab Sample ID: 890-4370-11
Matrix: Solid
Date Collected: 03/20/23 12:40
Date Received: 03/20/23 16:42

Prep 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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 11:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 17:46	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 16:48	SMC	EET MID

Client Sample ID: C-103 10'

Lab Sample ID: 890-4370-12
Matrix: Solid
Date Collected: 03/20/23 12:30
Date Received: 03/20/23 16:42

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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 11:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 18:08	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 17:03	SMC	EET MID

Client Sample ID: C-104 10'

Lab Sample ID: 890-4370-13
Matrix: Solid
Date Collected: 03/20/23 12:50
Date Received: 03/20/23 16:42

Prep 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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 12:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 18:29	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50033	04/03/23 12:41	SMC	EET MID

Client Sample ID: C-105 10'

Lab Sample ID: 890-4370-14
Matrix: Solid
Date Collected: 03/20/23 13:00
Date Received: 03/20/23 16:42

Prep 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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 12:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Client Sample ID: C-105 10'

Lab Sample ID: 890-4370-14
Matrix: Solid
Date Collected: 03/20/23 13:00
Date Received: 03/20/23 16:42

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			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 18:51	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 18:57	SMC	EET MID

Client Sample ID: C-106 10'

Lab Sample ID: 890-4370-15
Matrix: Solid
Date Collected: 03/20/23 13:10
Date Received: 03/20/23 16:42

Prep 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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 13:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.031 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 19:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 19:02	SMC	EET MID

Client Sample ID: C-107 10'

Lab Sample ID: 890-4370-16
Matrix: Solid
Date Collected: 03/20/23 13:25
Date Received: 03/20/23 16:42

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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 19:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50033	04/03/23 12:46	SMC	EET MID

Client Sample ID: C-108 10'

Lab Sample ID: 890-4370-17
Matrix: Solid
Date Collected: 03/20/23 13:35
Date Received: 03/20/23 16:42

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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 14:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 19:55	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Client Sample ID: C-108 10'

Lab Sample ID: 890-4370-17
Matrix: Solid
Date Collected: 03/20/23 13:35
Date Received: 03/20/23 16:42

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	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 19:11	SMC	EET MID

Client Sample ID: C-109 10'

Lab Sample ID: 890-4370-18
Matrix: Solid
Date Collected: 03/20/23 13:45
Date Received: 03/20/23 16:42

Prep 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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 14:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 20:16	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 19:16	SMC	EET MID

Client Sample ID: C-110 10'

Lab Sample ID: 890-4370-19
Matrix: Solid
Date Collected: 03/20/23 13:55
Date Received: 03/20/23 16:42

Prep 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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 15:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 20:38	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 19:21	SMC	EET MID

Client Sample ID: C-111 10'

Lab Sample ID: 890-4370-20
Matrix: Solid
Date Collected: 03/20/23 14:05
Date Received: 03/20/23 16:42

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	49794	03/29/23 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 15:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/29/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49651	03/27/23 14:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49691	03/28/23 20:59	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49882	03/29/23 16:20	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50033	03/31/23 19:26	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Client Sample ID: C-112 10'

Lab Sample ID: 890-4370-21
Matrix: Solid
Date Collected: 03/20/23 14:15
Date Received: 03/20/23 16:42

Prep 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	49803	03/29/23 09:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49999	04/01/23 10:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/28/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	49457	03/24/23 16:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49559	03/27/23 17:54	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49884	03/29/23 16:21	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50034	03/30/23 23:37	SMC	EET MID

Client Sample ID: C-113 10'

Lab Sample ID: 890-4370-22
Matrix: Solid
Date Collected: 03/20/23 14:25
Date Received: 03/20/23 16:42

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	49803	03/29/23 09:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49999	04/01/23 11:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/28/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49457	03/24/23 16:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49559	03/27/23 18:15	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49884	03/29/23 16:21	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50034	03/30/23 23:42	SMC	EET MID

Client Sample ID: C-114 10'

Lab Sample ID: 890-4370-23
Matrix: Solid
Date Collected: 03/20/23 14:35
Date Received: 03/20/23 16:42

Prep 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	49803	03/29/23 09:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49999	04/01/23 11:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			49694	03/28/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49457	03/24/23 16:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49559	03/27/23 18:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49884	03/29/23 16:21	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50034	03/30/23 23:46	SMC	EET MID

Client Sample ID: C-115 10'

Lab Sample ID: 890-4370-24
Matrix: Solid
Date Collected: 03/20/23 14:45
Date Received: 03/20/23 16:42

Prep 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	49803	03/29/23 09:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49999	04/01/23 12:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			50244	04/03/23 15:53	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Client Sample ID: C-115 10'
Date Collected: 03/20/23 14:45
Date Received: 03/20/23 16:42

Lab Sample ID: 890-4370-24
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			49694	03/28/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49457	03/24/23 16:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49559	03/27/23 18:57	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49884	03/29/23 16:21	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50034	03/30/23 23:51	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.
Project/Site: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

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: 890-4370-1
Project/Site: Boo Radley SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 890-4370-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4370-1	C-92 10'	Solid	03/20/23 10:40	03/20/23 16:42
890-4370-2	C-93 10'	Solid	03/20/23 10:50	03/20/23 16:42
890-4370-3	C-94 10'	Solid	03/20/23 11:10	03/20/23 16:42
890-4370-4	C-95 10'	Solid	03/20/23 11:00	03/20/23 16:42
890-4370-5	C-96 10'	Solid	03/20/23 11:20	03/20/23 16:42
890-4370-6	C-97 10'	Solid	03/20/23 11:30	03/20/23 16:42
890-4370-7	C-98 10'	Solid	03/20/23 11:40	03/20/23 16:42
890-4370-8	C-99 10'	Solid	03/20/23 11:50	03/20/23 16:42
890-4370-9	C-100 10'	Solid	03/20/23 12:00	03/20/23 16:42
890-4370-10	C-101 10'	Solid	03/20/23 12:10	03/20/23 16:42
890-4370-11	C-102 10'	Solid	03/20/23 12:40	03/20/23 16:42
890-4370-12	C-103 10'	Solid	03/20/23 12:30	03/20/23 16:42
890-4370-13	C-104 10'	Solid	03/20/23 12:50	03/20/23 16:42
890-4370-14	C-105 10'	Solid	03/20/23 13:00	03/20/23 16:42
890-4370-15	C-106 10'	Solid	03/20/23 13:10	03/20/23 16:42
890-4370-16	C-107 10'	Solid	03/20/23 13:25	03/20/23 16:42
890-4370-17	C-108 10'	Solid	03/20/23 13:35	03/20/23 16:42
890-4370-18	C-109 10'	Solid	03/20/23 13:45	03/20/23 16:42
890-4370-19	C-110 10'	Solid	03/20/23 13:55	03/20/23 16:42
890-4370-20	C-111 10'	Solid	03/20/23 14:05	03/20/23 16:42
890-4370-21	C-112 10'	Solid	03/20/23 14:15	03/20/23 16:42
890-4370-22	C-113 10'	Solid	03/20/23 14:25	03/20/23 16:42
890-4370-23	C-114 10'	Solid	03/20/23 14:35	03/20/23 16:42
890-4370-24	C-115 10'	Solid	03/20/23 14:45	03/20/23 16:42

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890-4370 Chain of Custody

No. 2955

CHAIN-OF-CUSTODY

4/4/2023

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

DATE: 3/20/2023 PAGE ___ OF ___

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: BOX RADLEY

LAI PROJECT #: 21-0105-08 COLLECTOR: SPRATLEY

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MAIT / 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	CHLORIDE / ANIONS	ALKALINITY	FIELD NOTES
C-92 10'		3/20/23	10:40	S	1					X		X		X		X	X	X																																
C-93 10'			10:50		1																																														
C-94 10'			11:10		1																																													
C-95 10'			11:00		1																																													
C-96 10'			11:20		1																																													
C-97 10'			11:30		1																																													
C-98 10'			11:40		1																																													
C-99 10'			11:50		1																																													
C-100 10'			12:00		1																																													
C-101 10'			12:10		1																																													
C-102 10'			12:40		1																																													
C-103 10'			12:30		1																																													
C-104 10'			12:50		1																																													
C-105 10'			1:00		1																																													
C-106 10'			1:10		1																																													
TOTAL																																																	

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	3-20-23 1647	[signature]
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: 16.6 / 16.4 THERM#: TNM-00-1 -0.2
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Page 53 of 56

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Page 807 of 968

No. 2956

CHAIN-OF-CUSTODY

4/4/2023

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

Data Reported to:

DATE: 3/20/2023 PAGE ____ OF ____

PO#: ____ LAB WORK ORDER#: ____

PROJECT LOCATION OR NAME: BOO RADLEY

LAI PROJECT #: 21-0105-08 COLLECTOR: S BATES

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNM / 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 ☐	CHLORIDE ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-107 10'		3/20/23	1:25	S	1				X		X		X	X	X																														
C-108 10'			1:35																																										
C-109 10'			1:45																																										
C-110 10'			1:55																																										
C-111 10'			2:05																																										
C-112 10'			2:15																																										
C-113 10'			2:25																																										
C-114 10'			2:35																																										
C-115 10'			2:45																																										

TOTAL

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	3/20/23	[signature]
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: 2.4 THERM#: ____
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # ____
☐ HAND DELIVERED

Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-4370-1
SDG Number: 21-0105-08

Login Number: 4370
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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?	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.	N/A	Refer to Job Narrative for details.
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: 890-4370-1
SDG Number: 21-0105-08

Login Number: 4370
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/22/23 11:06 AM

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 4/10/2023 9:54:19 AM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

890-4425-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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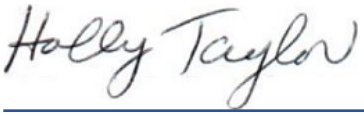
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Eurofins Carlsbad

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



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Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 890-4425-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

Job ID: 890-4425-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4425-1

Receipt
The samples were received on 3/28/2023 4:45 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 8.4°C

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-50003/2-A) and (LCSD 880-50003/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-3c 0-10' (890-4425-3) and SW-2 0-10' (890-4425-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-50003 and analytical batch 880-49993 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.

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 880-50415 and analytical batch 880-50611 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.SW-3a 0-10' (890-4425-1), SW-3b 0-10' (890-4425-2), SW-3c 0-10' (890-4425-3), SW-2 0-10' (890-4425-4), (890-4425-A-1-C MS) and (890-4425-A-1-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: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

Client Sample ID: SW-3a 0-10'

Date Collected: 03/28/23 12:45
Date Received: 03/28/23 16:45

Lab Sample ID: 890-4425-1

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		04/05/23 16:50	04/07/23 04:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/05/23 16:50	04/07/23 04:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/05/23 16:50	04/07/23 04:08	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/05/23 16:50	04/07/23 04:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/05/23 16:50	04/07/23 04:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/05/23 16:50	04/07/23 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*04/05/23 16:50*	*04/07/23 04:08*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*04/05/23 16:50*	*04/07/23 04:08*	*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			04/07/23 18:40	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			04/03/23 10:59	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		03/31/23 08:54	04/01/23 04:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		03/31/23 08:54	04/01/23 04:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/31/23 08:54	04/01/23 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*03/31/23 08:54*	*04/01/23 04:22*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*03/31/23 08:54*	*04/01/23 04:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**484**	**F1**	4.96		mg/Kg			04/07/23 14:25	1

Client Sample ID: SW-3b 0-10'

Date Collected: 03/28/23 13:15
Date Received: 03/28/23 16:45

Lab Sample ID: 890-4425-2

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		04/05/23 16:50	04/07/23 04:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/05/23 16:50	04/07/23 04:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/05/23 16:50	04/07/23 04:28	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		04/05/23 16:50	04/07/23 04:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/05/23 16:50	04/07/23 04:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/05/23 16:50	04/07/23 04:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/05/23 16:50*	*04/07/23 04:28*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/05/23 16:50*	*04/07/23 04:28*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

Client Sample ID: SW-3b 0-10'

Date Collected: 03/28/23 13:15
Date Received: 03/28/23 16:45

Lab Sample ID: 890-4425-2
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			04/07/23 18:40	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			04/03/23 10:59	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		03/31/23 08:54	04/01/23 04:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		03/31/23 08:54	04/01/23 04:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/31/23 08:54	04/01/23 04:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*03/31/23 08:54*	*04/01/23 04:44*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*03/31/23 08:54*	*04/01/23 04:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**492**		4.99		mg/Kg			04/06/23 23:02	1

Client Sample ID: SW-3c 0-10'

Date Collected: 03/28/23 15:00
Date Received: 03/28/23 16:45

Lab Sample ID: 890-4425-3
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		04/05/23 16:50	04/07/23 04:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/05/23 16:50	04/07/23 04:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/05/23 16:50	04/07/23 04:49	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		04/05/23 16:50	04/07/23 04:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/05/23 16:50	04/07/23 04:49	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/05/23 16:50	04/07/23 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*04/05/23 16:50*	*04/07/23 04:49*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/05/23 16:50*	*04/07/23 04:49*	*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			04/07/23 18:40	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			04/03/23 10:59	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		03/31/23 08:54	04/01/23 05:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/31/23 08:54	04/01/23 05:05	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

Client Sample ID: SW-3c 0-10'

Lab Sample ID: 890-4425-3
Matrix: Solid
Date Collected: 03/28/23 15:00
Date Received: 03/28/23 16:45

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		03/31/23 08:54	04/01/23 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*03/31/23 08:54*	*04/01/23 05:05*	*1*
o-Terphenyl (Surr)	*69*	*S1-*	*70 - 130*	*03/31/23 08:54*	*04/01/23 05:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**485**		5.03		mg/Kg			04/06/23 23:07	1

Client Sample ID: SW-2 0-10'

Lab Sample ID: 890-4425-4
Matrix: Solid
Date Collected: 03/28/23 14:45
Date Received: 03/28/23 16:45

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		04/05/23 16:50	04/07/23 05:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/05/23 16:50	04/07/23 05:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/05/23 16:50	04/07/23 05:09	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/05/23 16:50	04/07/23 05:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/05/23 16:50	04/07/23 05:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/05/23 16:50	04/07/23 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*04/05/23 16:50*	*04/07/23 05:09*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*04/05/23 16:50*	*04/07/23 05:09*	*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			04/07/23 18:40	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			04/03/23 10:59	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		03/31/23 08:54	04/01/23 05:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		03/31/23 08:54	04/01/23 05:26	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/31/23 08:54	04/01/23 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*03/31/23 08:54*	*04/01/23 05:26*	*1*
o-Terphenyl (Surr)	*68*	*S1-*	*70 - 130*	*03/31/23 08:54*	*04/01/23 05:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**487**		5.02		mg/Kg			04/06/23 23:21	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

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)
890-4425-1	SW-3a 0-10'	103	105
890-4425-2	SW-3b 0-10'	104	107
890-4425-3	SW-3c 0-10'	102	106
890-4425-4	SW-2 0-10'	94	94
LCS 880-50431/1-A	Lab Control Sample	96	110
LCSD 880-50431/2-A	Lab Control Sample Dup	100	112
MB 880-50431/5-A	Method Blank	90	97
MB 880-50512/8	Method Blank	92	99

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)
890-4425-1	SW-3a 0-10'	107	80
890-4425-2	SW-3b 0-10'	110	83
890-4425-3	SW-3c 0-10'	94	69 S1-
890-4425-4	SW-2 0-10'	90	68 S1-
LCS 880-50003/2-A	Lab Control Sample	81	61 S1-
LCSD 880-50003/3-A	Lab Control Sample Dup	71	56 S1-
MB 880-50003/1-A	Method Blank	113	89

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50431/5-A
Matrix: Solid
Analysis Batch: 50512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50431

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/05/23 16:50	04/07/23 01:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/05/23 16:50	04/07/23 01:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/05/23 16:50	04/07/23 01:57	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/05/23 16:50	04/07/23 01:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/05/23 16:50	04/07/23 01:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/05/23 16:50	04/07/23 01:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*04/05/23 16:50*	*04/07/23 01:57*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/05/23 16:50*	*04/07/23 01:57*	*1*

Lab Sample ID: LCS 880-50431/1-A
Matrix: Solid
Analysis Batch: 50512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50431

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1002		mg/Kg		100	70 - 130		
Toluene			0.100	0.09691		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.08430		mg/Kg		84	70 - 130		
m,p-Xylenes			0.200	0.1660		mg/Kg		83	70 - 130		
o-Xylene			0.100	0.08517		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 880-50431/2-A
Matrix: Solid
Analysis Batch: 50512

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50431

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	2	35
Toluene			0.100	0.1007		mg/Kg		101	70 - 130	4	35
Ethylbenzene			0.100	0.08698		mg/Kg		87	70 - 130	3	35
m,p-Xylenes			0.200	0.1715		mg/Kg		86	70 - 130	3	35
o-Xylene			0.100	0.08833		mg/Kg		88	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 880-50512/8
Matrix: Solid
Analysis Batch: 50512

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			04/06/23 14:21	1
Toluene	<0.00200	U	0.00200		mg/Kg			04/06/23 14:21	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-50512/8
Matrix: Solid
Analysis Batch: 50512

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			04/06/23 14:21	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg			04/06/23 14:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			04/06/23 14:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			04/06/23 14:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/06/23 14:21*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*04/06/23 14:21*	*1*

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

Lab Sample ID: MB 880-50003/1-A
Matrix: Solid
Analysis Batch: 49993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50003

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/31/23 08:54	03/31/23 20:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/31/23 08:54	03/31/23 20:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/31/23 08:54	03/31/23 20:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*03/31/23 08:54*	*03/31/23 20:55*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*03/31/23 08:54*	*03/31/23 20:55*	*1*

Lab Sample ID: LCS 880-50003/2-A
Matrix: Solid
Analysis Batch: 49993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50003

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1116		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	693.4	*-	mg/Kg		69	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*81*		*70 - 130*
o-Terphenyl (Surr)	*61*	*S1-*	*70 - 130*

Lab Sample ID: LCSD 880-50003/3-A
Matrix: Solid
Analysis Batch: 49993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50003

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	964.7		mg/Kg		96	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	614.8	*-	mg/Kg		61	70 - 130	12	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-50003/3-A
Matrix: Solid
Analysis Batch: 49993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50003

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*71*		*70 - 130*
o-Terphenyl (Surr)	*56*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50415/1-A
Matrix: Solid
Analysis Batch: 50611

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/06/23 21:25	1

Lab Sample ID: LCS 880-50415/2-A
Matrix: Solid
Analysis Batch: 50611

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-50415/3-A
Matrix: Solid
Analysis Batch: 50611

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	250.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-4425-1 MS
Matrix: Solid
Analysis Batch: 50611

Client Sample ID: SW-3a 0-10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	484	F1	248	684.4	F1	mg/Kg		81	90 - 110		

Lab Sample ID: 890-4425-1 MSD
Matrix: Solid
Analysis Batch: 50611

Client Sample ID: SW-3a 0-10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	484	F1	248	678.3	F1	mg/Kg		79	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

GC VOA

Prep Batch: 50431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4425-1	SW-3a 0-10'	Total/NA	Solid	5035	
890-4425-2	SW-3b 0-10'	Total/NA	Solid	5035	
890-4425-3	SW-3c 0-10'	Total/NA	Solid	5035	
890-4425-4	SW-2 0-10'	Total/NA	Solid	5035	
MB 880-50431/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50431/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50431/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 50512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4425-1	SW-3a 0-10'	Total/NA	Solid	8021B	50431
890-4425-2	SW-3b 0-10'	Total/NA	Solid	8021B	50431
890-4425-3	SW-3c 0-10'	Total/NA	Solid	8021B	50431
890-4425-4	SW-2 0-10'	Total/NA	Solid	8021B	50431
MB 880-50431/5-A	Method Blank	Total/NA	Solid	8021B	50431
MB 880-50512/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-50431/1-A	Lab Control Sample	Total/NA	Solid	8021B	50431
LCSD 880-50431/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50431

Analysis Batch: 50644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4425-1	SW-3a 0-10'	Total/NA	Solid	Total BTEX	
890-4425-2	SW-3b 0-10'	Total/NA	Solid	Total BTEX	
890-4425-3	SW-3c 0-10'	Total/NA	Solid	Total BTEX	
890-4425-4	SW-2 0-10'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 49993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4425-1	SW-3a 0-10'	Total/NA	Solid	8015B NM	50003
890-4425-2	SW-3b 0-10'	Total/NA	Solid	8015B NM	50003
890-4425-3	SW-3c 0-10'	Total/NA	Solid	8015B NM	50003
890-4425-4	SW-2 0-10'	Total/NA	Solid	8015B NM	50003
MB 880-50003/1-A	Method Blank	Total/NA	Solid	8015B NM	50003
LCS 880-50003/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50003
LCSD 880-50003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50003

Prep Batch: 50003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4425-1	SW-3a 0-10'	Total/NA	Solid	8015NM Prep	
890-4425-2	SW-3b 0-10'	Total/NA	Solid	8015NM Prep	
890-4425-3	SW-3c 0-10'	Total/NA	Solid	8015NM Prep	
890-4425-4	SW-2 0-10'	Total/NA	Solid	8015NM Prep	
MB 880-50003/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50003/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4425-1	SW-3a 0-10'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

GC Semi VOA (Continued)

Analysis Batch: 50163 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4425-2	SW-3b 0-10'	Total/NA	Solid	8015 NM	
890-4425-3	SW-3c 0-10'	Total/NA	Solid	8015 NM	
890-4425-4	SW-2 0-10'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4425-1	SW-3a 0-10'	Soluble	Solid	DI Leach	
890-4425-2	SW-3b 0-10'	Soluble	Solid	DI Leach	
890-4425-3	SW-3c 0-10'	Soluble	Solid	DI Leach	
890-4425-4	SW-2 0-10'	Soluble	Solid	DI Leach	
MB 880-50415/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50415/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50415/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4425-1 MS	SW-3a 0-10'	Soluble	Solid	DI Leach	
890-4425-1 MSD	SW-3a 0-10'	Soluble	Solid	DI Leach	

Analysis Batch: 50611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4425-1	SW-3a 0-10'	Soluble	Solid	300.0	50415
890-4425-2	SW-3b 0-10'	Soluble	Solid	300.0	50415
890-4425-3	SW-3c 0-10'	Soluble	Solid	300.0	50415
890-4425-4	SW-2 0-10'	Soluble	Solid	300.0	50415
MB 880-50415/1-A	Method Blank	Soluble	Solid	300.0	50415
LCS 880-50415/2-A	Lab Control Sample	Soluble	Solid	300.0	50415
LCSD 880-50415/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50415
890-4425-1 MS	SW-3a 0-10'	Soluble	Solid	300.0	50415
890-4425-1 MSD	SW-3a 0-10'	Soluble	Solid	300.0	50415

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

Client Sample ID: SW-3a 0-10'

Date Collected: 03/28/23 12:45
Date Received: 03/28/23 16:45

Lab Sample ID: 890-4425-1
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			5.01 g	5 mL	50431	04/05/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50512	04/07/23 04:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50644	04/07/23 18:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			50163	04/03/23 10:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50003	03/31/23 08:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49993	04/01/23 04:22	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	50415	04/05/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50611	04/07/23 14:25	SMC	EET MID

Client Sample ID: SW-3b 0-10'

Date Collected: 03/28/23 13:15
Date Received: 03/28/23 16:45

Lab Sample ID: 890-4425-2
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			4.97 g	5 mL	50431	04/05/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50512	04/07/23 04:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50644	04/07/23 18:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			50163	04/03/23 10:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50003	03/31/23 08:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49993	04/01/23 04:44	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50415	04/05/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50611	04/06/23 23:02	SMC	EET MID

Client Sample ID: SW-3c 0-10'

Date Collected: 03/28/23 15:00
Date Received: 03/28/23 16:45

Lab Sample ID: 890-4425-3
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	50431	04/05/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50512	04/07/23 04:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50644	04/07/23 18:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			50163	04/03/23 10:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50003	03/31/23 08:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49993	04/01/23 05:05	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50415	04/05/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50611	04/06/23 23:07	SMC	EET MID

Client Sample ID: SW-2 0-10'

Date Collected: 03/28/23 14:45
Date Received: 03/28/23 16:45

Lab Sample ID: 890-4425-4
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	50431	04/05/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50512	04/07/23 05:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50644	04/07/23 18:40	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

Client Sample ID: SW-2 0-10'

Date Collected: 03/28/23 14:45
Date Received: 03/28/23 16:45

Lab Sample ID: 890-4425-4

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			50163	04/03/23 10:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50003	03/31/23 08:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49993	04/01/23 05:26	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50415	04/05/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50611	04/06/23 23:21	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: 890-4425-1
Project/Site: Boo Radley SDG: 21-0105-08

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: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

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	EPA	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
EPA = US Environmental Protection Agency
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: Boo Radley

Job ID: 890-4425-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4425-1	SW-3a 0-10'	Solid	03/28/23 12:45	03/28/23 16:45
890-4425-2	SW-3b 0-10'	Solid	03/28/23 13:15	03/28/23 16:45
890-4425-3	SW-3c 0-10'	Solid	03/28/23 15:00	03/28/23 16:45
890-4425-4	SW-2 0-10'	Solid	03/28/23 14:45	03/28/23 16:45

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No. 2968

4425

CHAIN-OF-CUSTODY

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

DATE: 3/28/23 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Boo RADLEY

LAI PROJECT #: 21-0105-08 COLLECTOR: STAN BATES

Data Reported to: ROBERT NELSON/MARK LARSON

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
SW-3a 0-10'		3/28/23	12:45	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 ☐	
SW-3b 0-10'			3:15	S	1							
SW-3c 0-10'			3:00	S	1							
SW-2 0-1G			2:45	S	1							
TOTAL												

890-4425 Chain of Custody

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	3/28/23 16:45	
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	3.28.23 1645	
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: EUROFINS XENCO

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

LABORATORY USE ONLY:
RECEIVING TEMP: 8.6/8.4 CP-Cooling IR-Process THERM#: T-NM-007 -0.2
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

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4/10/2023
Received by OCD: 7/19/2023 8:51:08 AM
Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-4425-1
SDG Number: 21-0105-08

Login Number: 4425
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-4425-1
SDG Number: 21-0105-08

Login Number: 4425
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 03/30/23 01:53 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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 4/19/2023 12:04:32 PM Revision 1

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

890-4436-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 AM

my EOL

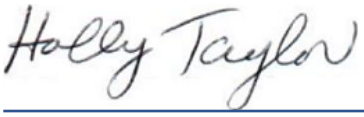
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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4/19/2023 12:04:32 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: Boo Radley

Laboratory Job ID: 890-4436-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-4436-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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: 890-4436-1
Project/Site: Boo Radley SDG: 21-0105-08

Job ID: 890-4436-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4436-1

Revision
The report being provided is a revision of the original report sent on 4/11/2023. The report (revision 1) is being revised to change the sample ID for sample 8 per Daniel St Germain (email).

Receipt
The samples were received on 3/29/2023 4:33 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 10.0º C.

GC VOA
Method 8021B: The laboratory control sample (LCS) for preparation batch 880-50805 and analytical batch 880-50769 recovered outside control limits for the following analytes: 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: Surrogate recovery for the following samples were outside control limits: C-132 10' (890-4436-1) and C-133 10' (890-4436-2). 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: SW-5c 0-10' (890-4436-5) and SW-22c 0-4' (890-4436-8). 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 sample was outside control limits: (890-4436-A-7-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) recoveries and precision for preparation batch 880-50055 and analytical batch 880-50074 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 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-50056 and analytical batch 880-50075 was outside the upper control limits.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-50056/2-A) and (LCSD 880-50056/3-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (880-26567-A-1-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: The method blank for preparation batch 880-50056 and analytical batch 880-50075 contained Gasoline Range Organics (GRO)-C6-C10 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.

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50415 and analytical batch 880-50611 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. (880-26511-A-12-B), (880-26511-A-12-C MS) and (880-26511-A-12-D MSD)

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50415 and analytical batch 880-50611 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

Job ID: 890-4436-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. SW-4a 0-10' (890-4436-6), SW-4b 0-10' (890-4436-7) and SW-22c 0-4' (890-4436-8)

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: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

Client Sample ID: C-132 10'

Date Collected: 03/29/23 11:40
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-1

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		04/10/23 10:30	04/10/23 22:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:30	04/10/23 22:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:30	04/10/23 22:51	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/10/23 10:30	04/10/23 22:51	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		04/10/23 10:30	04/10/23 22:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 10:30	04/10/23 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*04/10/23 10:30*	*04/10/23 22:51*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/10/23 10:30*	*04/10/23 22:51*	*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			04/11/23 10:21	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			04/03/23 12:07	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		03/31/23 17:04	04/02/23 03:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/31/23 17:04	04/02/23 03:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/31/23 17:04	04/02/23 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*03/31/23 17:04*	*04/02/23 03:45*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*03/31/23 17:04*	*04/02/23 03:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**429**		25.0		mg/Kg			04/07/23 00:01	5

Client Sample ID: C-133 10'

Date Collected: 03/29/23 11:30
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-2

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		04/10/23 10:30	04/10/23 23:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:30	04/10/23 23:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:30	04/10/23 23:11	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/10/23 10:30	04/10/23 23:11	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		04/10/23 10:30	04/10/23 23:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 10:30	04/10/23 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*04/10/23 10:30*	*04/10/23 23:11*	*1*
1,4-Difluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*04/10/23 10:30*	*04/10/23 23:11*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

Client Sample ID: C-133 10'

Date Collected: 03/29/23 11:30
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-2
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			04/11/23 10:21	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			04/03/23 12:07	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		03/31/23 17:04	04/02/23 04:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/31/23 17:04	04/02/23 04:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/31/23 17:04	04/02/23 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*03/31/23 17:04*	*04/02/23 04:06*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*03/31/23 17:04*	*04/02/23 04:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1530**		50.2		mg/Kg			04/07/23 00:15	10

Client Sample ID: SW-5a 0-10'

Date Collected: 03/29/23 12:10
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-3
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		04/10/23 10:30	04/10/23 23:32	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/10/23 10:30	04/10/23 23:32	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/10/23 10:30	04/10/23 23:32	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		04/10/23 10:30	04/10/23 23:32	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		04/10/23 10:30	04/10/23 23:32	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/10/23 10:30	04/10/23 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*04/10/23 10:30*	*04/10/23 23:32*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*04/10/23 10:30*	*04/10/23 23:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			04/11/23 10:21	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			04/03/23 12:07	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		03/31/23 17:04	04/02/23 04:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/31/23 17:04	04/02/23 04:27	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

Client Sample ID: SW-5a 0-10'
Date Collected: 03/29/23 12:10
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-3
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		03/31/23 17:04	04/02/23 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*03/31/23 17:04*	*04/02/23 04:27*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*03/31/23 17:04*	*04/02/23 04:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**184**		5.04		mg/Kg			04/07/23 00:19	1

Client Sample ID: SW-5b 0-10'
Date Collected: 03/29/23 12:20
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-4
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		04/10/23 10:30	04/10/23 23:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:30	04/10/23 23:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:30	04/10/23 23:52	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		04/10/23 10:30	04/10/23 23:52	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		04/10/23 10:30	04/10/23 23:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/10/23 10:30	04/10/23 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/10/23 10:30*	*04/10/23 23:52*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/10/23 10:30*	*04/10/23 23:52*	*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			04/11/23 10:21	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			04/03/23 12:07	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		03/31/23 17:04	04/02/23 04:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/31/23 17:04	04/02/23 04:48	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/31/23 17:04	04/02/23 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*03/31/23 17:04*	*04/02/23 04:48*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*03/31/23 17:04*	*04/02/23 04:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**365**		4.97		mg/Kg			04/07/23 00:33	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

Client Sample ID: SW-5c 0-10'

Lab Sample ID: 890-4436-5
Matrix: Solid
Date Collected: 03/29/23 12:30
Date Received: 03/29/23 16:33

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		04/10/23 10:30	04/11/23 00:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:30	04/11/23 00:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:30	04/11/23 00:13	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/10/23 10:30	04/11/23 00:13	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		04/10/23 10:30	04/11/23 00:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 10:30	04/11/23 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*04/10/23 10:30*	*04/11/23 00:13*	*1*
1,4-Difluorobenzene (Surr)	*59*	*S1-*	*70 - 130*	*04/10/23 10:30*	*04/11/23 00:13*	*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			04/11/23 10:21	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			04/03/23 12:07	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		03/31/23 17:04	04/02/23 05:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/31/23 17:04	04/02/23 05:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/31/23 17:04	04/02/23 05:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*03/31/23 17:04*	*04/02/23 05:10*	*1*
o-Terphenyl (Surr)	*76*		*70 - 130*	*03/31/23 17:04*	*04/02/23 05:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**127**		5.03		mg/Kg			04/07/23 00:37	1

Client Sample ID: SW-4a 0-10'

Lab Sample ID: 890-4436-6
Matrix: Solid
Date Collected: 03/29/23 13:00
Date Received: 03/29/23 16:33

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		04/10/23 10:30	04/11/23 00:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:30	04/11/23 00:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/10/23 10:30	04/11/23 00:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/10/23 10:30	04/11/23 00:33	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		04/10/23 10:30	04/11/23 00:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/10/23 10:30	04/11/23 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*04/10/23 10:30*	*04/11/23 00:33*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*04/10/23 10:30*	*04/11/23 00:33*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

Client Sample ID: SW-4a 0-10'

Lab Sample ID: 890-4436-6
Matrix: Solid
Date Collected: 03/29/23 13:00
Date Received: 03/29/23 16:33

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			04/11/23 10:21	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			04/03/23 10:23	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		03/31/23 16:59	04/01/23 13:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/31/23 16:59	04/01/23 13:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/31/23 16:59	04/01/23 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*03/31/23 16:59*	*04/01/23 13:05*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*03/31/23 16:59*	*04/01/23 13:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**329**		5.02		mg/Kg			04/06/23 23:26	1

Client Sample ID: SW-4b 0-10'

Lab Sample ID: 890-4436-7
Matrix: Solid
Date Collected: 03/29/23 13:30
Date Received: 03/29/23 16:33

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		04/10/23 10:30	04/11/23 00:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:30	04/11/23 00:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:30	04/11/23 00:54	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/10/23 10:30	04/11/23 00:54	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		04/10/23 10:30	04/11/23 00:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/10/23 10:30	04/11/23 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*04/10/23 10:30*	*04/11/23 00:54*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*04/10/23 10:30*	*04/11/23 00:54*	*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			04/11/23 10:21	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			04/03/23 10:23	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 F1	49.9		mg/Kg		03/31/23 16:59	04/01/23 12:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U F2	49.9		mg/Kg		03/31/23 16:59	04/01/23 12:01	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

Client Sample ID: SW-4b 0-10'

Lab Sample ID: 890-4436-7
Matrix: Solid
Date Collected: 03/29/23 13:30
Date Received: 03/29/23 16:33

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		03/31/23 16:59	04/01/23 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*03/31/23 16:59*	*04/01/23 12:01*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*03/31/23 16:59*	*04/01/23 12:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**114**		5.02		mg/Kg			04/06/23 23:31	1

Client Sample ID: SW-22c 0-4'

Lab Sample ID: 890-4436-8
Matrix: Solid
Date Collected: 03/29/23 14:15
Date Received: 03/29/23 16:33

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		04/10/23 10:30	04/11/23 01:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/10/23 10:30	04/11/23 01:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/10/23 10:30	04/11/23 01:14	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		04/10/23 10:30	04/11/23 01:14	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		04/10/23 10:30	04/11/23 01:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/10/23 10:30	04/11/23 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*04/10/23 10:30*	*04/11/23 01:14*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*04/10/23 10:30*	*04/11/23 01:14*	*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			04/11/23 10:21	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			04/03/23 10:23	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		03/31/23 16:59	04/01/23 13:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/31/23 16:59	04/01/23 13:26	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/31/23 16:59	04/01/23 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*03/31/23 16:59*	*04/01/23 13:26*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*03/31/23 16:59*	*04/01/23 13:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**91.3**		4.99		mg/Kg			04/06/23 23:36	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

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)
890-4436-1	C-132 10'	66 S1-	97
890-4436-1 MS	C-132 10'	99	115
890-4436-1 MSD	C-132 10'	103	111
890-4436-2	C-133 10'	76	63 S1-
890-4436-3	SW-5a 0-10'	91	76
890-4436-4	SW-5b 0-10'	97	100
890-4436-5	SW-5c 0-10'	80	59 S1-
890-4436-6	SW-4a 0-10'	86	79
890-4436-7	SW-4b 0-10'	87	83
890-4436-8	SW-22c 0-4'	131 S1+	104
LCS 880-50805/1-A	Lab Control Sample	120	110
LCSD 880-50805/2-A	Lab Control Sample Dup	122	109
MB 880-50536/5-B	Method Blank	80	96
MB 880-50805/5-A	Method Blank	80	76

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)
890-4436-1	C-132 10'	118	93
890-4436-2	C-133 10'	116	96
890-4436-3	SW-5a 0-10'	118	97
890-4436-4	SW-5b 0-10'	112	90
890-4436-5	SW-5c 0-10'	100	76
890-4436-6	SW-4a 0-10'	115	107
890-4436-7	SW-4b 0-10'	105	97
890-4436-7 MS	SW-4b 0-10'	143 S1+	126
890-4436-7 MSD	SW-4b 0-10'	119	99
890-4436-8	SW-22c 0-4'	109	107
LCS 880-50055/2-A	Lab Control Sample	125	118
LCS 880-50056/2-A	Lab Control Sample	83	64 S1-
LCSD 880-50055/3-A	Lab Control Sample Dup	129	119
LCSD 880-50056/3-A	Lab Control Sample Dup	79	60 S1-
MB 880-50055/1-A	Method Blank	110	112
MB 880-50056/1-A	Method Blank	136 S1+	116

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50536/5-B
Matrix: Solid
Analysis Batch: 50769

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50536

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 09:30	04/10/23 11:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 09:30	04/10/23 11:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 09:30	04/10/23 11:54	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/10/23 09:30	04/10/23 11:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 09:30	04/10/23 11:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 09:30	04/10/23 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*04/10/23 09:30*	*04/10/23 11:54*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*04/10/23 09:30*	*04/10/23 11:54*	*1*

Lab Sample ID: MB 880-50805/5-A
Matrix: Solid
Analysis Batch: 50769

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50805

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:30	04/10/23 22:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:30	04/10/23 22:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:30	04/10/23 22:29	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/10/23 10:30	04/10/23 22:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/10/23 10:30	04/10/23 22:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/10/23 10:30	04/10/23 22:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*04/10/23 10:30*	*04/10/23 22:29*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*04/10/23 10:30*	*04/10/23 22:29*	*1*

Lab Sample ID: LCS 880-50805/1-A
Matrix: Solid
Analysis Batch: 50769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50805

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1165		mg/Kg		117	70 - 130		
Toluene			0.100	0.1127		mg/Kg		113	70 - 130		
Ethylbenzene			0.100	0.1194		mg/Kg		119	70 - 130		
m,p-Xylenes			0.200	0.2585		mg/Kg		129	70 - 130		
o-Xylene			0.100	0.1315	*+	mg/Kg		131	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 880-50805/2-A
Matrix: Solid
Analysis Batch: 50769

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50805

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1147		mg/Kg		115	70 - 130	2	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-50805/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 50769 — **Prep Batch: 50805**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1081		mg/Kg		108	70 - 130	4	35
Ethylbenzene			0.100	0.1150		mg/Kg		115	70 - 130	4	35
m,p-Xylenes			0.200	0.2470		mg/Kg		123	70 - 130	5	35
o-Xylene			0.100	0.1252		mg/Kg		125	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-4436-1 MS — **Client Sample ID: C-132 10'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 50769 — **Prep Batch: 50805**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0992	0.08995		mg/Kg		91	70 - 130
Toluene	<0.00200	U	0.0992	0.08088		mg/Kg		81	70 - 130
Ethylbenzene	<0.00200	U	0.0992	0.07497		mg/Kg		76	70 - 130
m,p-Xylenes	<0.00399	U	0.198	0.1467		mg/Kg		73	70 - 130
o-Xylene	<0.00200	U *+	0.0992	0.07380		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 890-4436-1 MSD — **Client Sample ID: C-132 10'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 50769 — **Prep Batch: 50805**

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	0.09116		mg/Kg		92	70 - 130	1	35
Toluene	<0.00200	U	0.0990	0.08525		mg/Kg		86	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0990	0.07591		mg/Kg		77	70 - 130	1	35
m,p-Xylenes	<0.00399	U	0.198	0.1511		mg/Kg		76	70 - 130	3	35
o-Xylene	<0.00200	U *+	0.0990	0.07570		mg/Kg		76	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

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

Lab Sample ID: MB 880-50055/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 50074 — **Prep Batch: 50055**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/31/23 16:59	04/01/23 08:57	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

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

Lab Sample ID: MB 880-50055/1-A
Matrix: Solid
Analysis Batch: 50074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50055

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		03/31/23 16:59	04/01/23 08:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/31/23 16:59	04/01/23 08:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*03/31/23 16:59*	*04/01/23 08:57*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*03/31/23 16:59*	*04/01/23 08:57*	*1*

Lab Sample ID: LCS 880-50055/2-A
Matrix: Solid
Analysis Batch: 50074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50055

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	931.7		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	874.4		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*125*		*70 - 130*
o-Terphenyl (Surr)	*118*		*70 - 130*

Lab Sample ID: LCSD 880-50055/3-A
Matrix: Solid
Analysis Batch: 50074

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50055

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	973.6		mg/Kg		97	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	891.8		mg/Kg		89	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*129*		*70 - 130*
o-Terphenyl (Surr)	*119*		*70 - 130*

Lab Sample ID: 890-4436-7 MS
Matrix: Solid
Analysis Batch: 50074

Client Sample ID: SW-4b 0-10'
Prep Type: Total/NA
Prep Batch: 50055

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 F1	997	1383	F1	mg/Kg		136	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F2	997	1139		mg/Kg		112	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*143*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*126*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

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

Lab Sample ID: 890-4436-7 MSD
Matrix: Solid
Analysis Batch: 50074

Client Sample ID: SW-4b 0-10'
Prep Type: Total/NA
Prep Batch: 50055

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 F1	999	1184		mg/Kg		116	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.9	U F2	999	919.9	F2	mg/Kg		90	70 - 130	21	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*119*		*70 - 130*
o-Terphenyl (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-50056/1-A
Matrix: Solid
Analysis Batch: 50075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50056

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/31/23 17:04	04/01/23 20:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/31/23 17:04	04/01/23 20:18	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/31/23 17:04	04/01/23 20:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*136*	*S1+*	*70 - 130*	*03/31/23 17:04*	*04/01/23 20:18*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*03/31/23 17:04*	*04/01/23 20:18*	*1*

Lab Sample ID: LCS 880-50056/2-A
Matrix: Solid
Analysis Batch: 50075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50056

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	801.6		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	794.3		mg/Kg		79	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*83*		*70 - 130*
o-Terphenyl (Surr)	*64*	*S1-*	*70 - 130*

Lab Sample ID: LCSD 880-50056/3-A
Matrix: Solid
Analysis Batch: 50075

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50056

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	844.1		mg/Kg		84	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	802.1		mg/Kg		80	70 - 130	1	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

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

Lab Sample ID: LCSD 880-50056/3-A
Matrix: Solid
Analysis Batch: 50075

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50056

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*79*		*70 - 130*
o-Terphenyl (Surr)	*60*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50415/1-A
Matrix: Solid
Analysis Batch: 50611

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/06/23 21:25	1

Lab Sample ID: LCS 880-50415/2-A
Matrix: Solid
Analysis Batch: 50611

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-50415/3-A
Matrix: Solid
Analysis Batch: 50611

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	250.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-50419/1-A
Matrix: Solid
Analysis Batch: 50615

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/06/23 22:43	1

Lab Sample ID: LCS 880-50419/2-A
Matrix: Solid
Analysis Batch: 50615

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	243.0		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-50419/3-A
Matrix: Solid
Analysis Batch: 50615

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	241.9		mg/Kg		97	90 - 110	0	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4436-1 MS
Matrix: Solid
Analysis Batch: 50615

Client Sample ID: C-132 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	429		1250	1650		mg/Kg		98	90 - 110		

Lab Sample ID: 890-4436-1 MSD
Matrix: Solid
Analysis Batch: 50615

Client Sample ID: C-132 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	429		1250	1633		mg/Kg		97	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

GC VOA

Prep Batch: 50536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-50536/5-B	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 50769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4436-1	C-132 10'	Total/NA	Solid	8021B	50805
890-4436-2	C-133 10'	Total/NA	Solid	8021B	50805
890-4436-3	SW-5a 0-10'	Total/NA	Solid	8021B	50805
890-4436-4	SW-5b 0-10'	Total/NA	Solid	8021B	50805
890-4436-5	SW-5c 0-10'	Total/NA	Solid	8021B	50805
890-4436-6	SW-4a 0-10'	Total/NA	Solid	8021B	50805
890-4436-7	SW-4b 0-10'	Total/NA	Solid	8021B	50805
890-4436-8	SW-22c 0-4'	Total/NA	Solid	8021B	50805
MB 880-50536/5-B	Method Blank	Total/NA	Solid	8021B	50536
MB 880-50805/5-A	Method Blank	Total/NA	Solid	8021B	50805
LCS 880-50805/1-A	Lab Control Sample	Total/NA	Solid	8021B	50805
LCSD 880-50805/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50805
890-4436-1 MS	C-132 10'	Total/NA	Solid	8021B	50805
890-4436-1 MSD	C-132 10'	Total/NA	Solid	8021B	50805

Prep Batch: 50805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4436-1	C-132 10'	Total/NA	Solid	5035	
890-4436-2	C-133 10'	Total/NA	Solid	5035	
890-4436-3	SW-5a 0-10'	Total/NA	Solid	5035	
890-4436-4	SW-5b 0-10'	Total/NA	Solid	5035	
890-4436-5	SW-5c 0-10'	Total/NA	Solid	5035	
890-4436-6	SW-4a 0-10'	Total/NA	Solid	5035	
890-4436-7	SW-4b 0-10'	Total/NA	Solid	5035	
890-4436-8	SW-22c 0-4'	Total/NA	Solid	5035	
MB 880-50805/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50805/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50805/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4436-1 MS	C-132 10'	Total/NA	Solid	5035	
890-4436-1 MSD	C-132 10'	Total/NA	Solid	5035	

Analysis Batch: 50892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4436-1	C-132 10'	Total/NA	Solid	Total BTEX	
890-4436-2	C-133 10'	Total/NA	Solid	Total BTEX	
890-4436-3	SW-5a 0-10'	Total/NA	Solid	Total BTEX	
890-4436-4	SW-5b 0-10'	Total/NA	Solid	Total BTEX	
890-4436-5	SW-5c 0-10'	Total/NA	Solid	Total BTEX	
890-4436-6	SW-4a 0-10'	Total/NA	Solid	Total BTEX	
890-4436-7	SW-4b 0-10'	Total/NA	Solid	Total BTEX	
890-4436-8	SW-22c 0-4'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 50055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4436-6	SW-4a 0-10'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

GC Semi VOA (Continued)

Prep Batch: 50055 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4436-7	SW-4b 0-10'	Total/NA	Solid	8015NM Prep	
890-4436-8	SW-22c 0-4'	Total/NA	Solid	8015NM Prep	
MB 880-50055/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50055/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50055/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4436-7 MS	SW-4b 0-10'	Total/NA	Solid	8015NM Prep	
890-4436-7 MSD	SW-4b 0-10'	Total/NA	Solid	8015NM Prep	

Prep Batch: 50056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4436-1	C-132 10'	Total/NA	Solid	8015NM Prep	
890-4436-2	C-133 10'	Total/NA	Solid	8015NM Prep	
890-4436-3	SW-5a 0-10'	Total/NA	Solid	8015NM Prep	
890-4436-4	SW-5b 0-10'	Total/NA	Solid	8015NM Prep	
890-4436-5	SW-5c 0-10'	Total/NA	Solid	8015NM Prep	
MB 880-50056/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50056/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50056/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4436-6	SW-4a 0-10'	Total/NA	Solid	8015B NM	50055
890-4436-7	SW-4b 0-10'	Total/NA	Solid	8015B NM	50055
890-4436-8	SW-22c 0-4'	Total/NA	Solid	8015B NM	50055
MB 880-50055/1-A	Method Blank	Total/NA	Solid	8015B NM	50055
LCS 880-50055/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50055
LCSD 880-50055/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50055
890-4436-7 MS	SW-4b 0-10'	Total/NA	Solid	8015B NM	50055
890-4436-7 MSD	SW-4b 0-10'	Total/NA	Solid	8015B NM	50055

Analysis Batch: 50075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4436-1	C-132 10'	Total/NA	Solid	8015B NM	50056
890-4436-2	C-133 10'	Total/NA	Solid	8015B NM	50056
890-4436-3	SW-5a 0-10'	Total/NA	Solid	8015B NM	50056
890-4436-4	SW-5b 0-10'	Total/NA	Solid	8015B NM	50056
890-4436-5	SW-5c 0-10'	Total/NA	Solid	8015B NM	50056
MB 880-50056/1-A	Method Blank	Total/NA	Solid	8015B NM	50056
LCS 880-50056/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50056
LCSD 880-50056/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50056

Analysis Batch: 50150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4436-1	C-132 10'	Total/NA	Solid	8015 NM	
890-4436-2	C-133 10'	Total/NA	Solid	8015 NM	
890-4436-3	SW-5a 0-10'	Total/NA	Solid	8015 NM	
890-4436-4	SW-5b 0-10'	Total/NA	Solid	8015 NM	
890-4436-5	SW-5c 0-10'	Total/NA	Solid	8015 NM	
890-4436-6	SW-4a 0-10'	Total/NA	Solid	8015 NM	
890-4436-7	SW-4b 0-10'	Total/NA	Solid	8015 NM	
890-4436-8	SW-22c 0-4'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

HPLC/IC

Leach Batch: 50415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4436-6	SW-4a 0-10'	Soluble	Solid	DI Leach	
890-4436-7	SW-4b 0-10'	Soluble	Solid	DI Leach	
890-4436-8	SW-22c 0-4'	Soluble	Solid	DI Leach	
MB 880-50415/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50415/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50415/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 50419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4436-1	C-132 10'	Soluble	Solid	DI Leach	
890-4436-2	C-133 10'	Soluble	Solid	DI Leach	
890-4436-3	SW-5a 0-10'	Soluble	Solid	DI Leach	
890-4436-4	SW-5b 0-10'	Soluble	Solid	DI Leach	
890-4436-5	SW-5c 0-10'	Soluble	Solid	DI Leach	
MB 880-50419/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50419/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50419/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4436-1 MS	C-132 10'	Soluble	Solid	DI Leach	
890-4436-1 MSD	C-132 10'	Soluble	Solid	DI Leach	

Analysis Batch: 50611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4436-6	SW-4a 0-10'	Soluble	Solid	300.0	50415
890-4436-7	SW-4b 0-10'	Soluble	Solid	300.0	50415
890-4436-8	SW-22c 0-4'	Soluble	Solid	300.0	50415
MB 880-50415/1-A	Method Blank	Soluble	Solid	300.0	50415
LCS 880-50415/2-A	Lab Control Sample	Soluble	Solid	300.0	50415
LCSD 880-50415/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50415

Analysis Batch: 50615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4436-1	C-132 10'	Soluble	Solid	300.0	50419
890-4436-2	C-133 10'	Soluble	Solid	300.0	50419
890-4436-3	SW-5a 0-10'	Soluble	Solid	300.0	50419
890-4436-4	SW-5b 0-10'	Soluble	Solid	300.0	50419
890-4436-5	SW-5c 0-10'	Soluble	Solid	300.0	50419
MB 880-50419/1-A	Method Blank	Soluble	Solid	300.0	50419
LCS 880-50419/2-A	Lab Control Sample	Soluble	Solid	300.0	50419
LCSD 880-50419/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50419
890-4436-1 MS	C-132 10'	Soluble	Solid	300.0	50419
890-4436-1 MSD	C-132 10'	Soluble	Solid	300.0	50419

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

Client Sample ID: C-132 10'
Date Collected: 03/29/23 11:40
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-1
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			5.01 g	5 mL	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/10/23 22:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50892	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50150	04/03/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50056	03/31/23 17:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50075	04/02/23 03:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50419	04/05/23 14:51	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50615	04/07/23 00:01	SMC	EET MID

Client Sample ID: C-133 10'
Date Collected: 03/29/23 11:30
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-2
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			5.03 g	5 mL	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/10/23 23:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50892	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50150	04/03/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50056	03/31/23 17:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50075	04/02/23 04:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50419	04/05/23 14:51	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50615	04/07/23 00:15	SMC	EET MID

Client Sample ID: SW-5a 0-10'
Date Collected: 03/29/23 12:10
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-3
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			5.04 g	5 mL	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/10/23 23:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50892	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50150	04/03/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50056	03/31/23 17:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50075	04/02/23 04:27	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50419	04/05/23 14:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50615	04/07/23 00:19	SMC	EET MID

Client Sample ID: SW-5b 0-10'
Date Collected: 03/29/23 12:20
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-4
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	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/10/23 23:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50892	04/11/23 10:21	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

Client Sample ID: SW-5b 0-10'
Date Collected: 03/29/23 12:20
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-4
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			50150	04/03/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	50056	03/31/23 17:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50075	04/02/23 04:48	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50419	04/05/23 14:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50615	04/07/23 00:33	SMC	EET MID

Client Sample ID: SW-5c 0-10'
Date Collected: 03/29/23 12:30
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-5
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	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/11/23 00:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50892	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50150	04/03/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50056	03/31/23 17:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50075	04/02/23 05:10	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50419	04/05/23 14:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50615	04/07/23 00:37	SMC	EET MID

Client Sample ID: SW-4a 0-10'
Date Collected: 03/29/23 13:00
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-6
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	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/11/23 00:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50892	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50150	04/03/23 10:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50055	03/31/23 16:59	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50074	04/01/23 13:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50415	04/05/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50611	04/06/23 23:26	SMC	EET MID

Client Sample ID: SW-4b 0-10'
Date Collected: 03/29/23 13:30
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-7
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	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/11/23 00:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50892	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50150	04/03/23 10:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50055	03/31/23 16:59	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50074	04/01/23 12:01	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

Client Sample ID: SW-4b 0-10'
Date Collected: 03/29/23 13:30
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-7
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	50415	04/05/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50611	04/06/23 23:31	SMC	EET MID

Client Sample ID: SW-22c 0-4'
Date Collected: 03/29/23 14:15
Date Received: 03/29/23 16:33

Lab Sample ID: 890-4436-8
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			4.97 g	5 mL	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/11/23 01:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50892	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50150	04/03/23 10:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50055	03/31/23 16:59	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50074	04/01/23 13:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50415	04/05/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50611	04/06/23 23:36	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: 890-4436-1
Project/Site: Boo Radley SDG: 21-0105-08

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: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

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	EPA	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
EPA = US Environmental Protection Agency
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: Boo Radley

Job ID: 890-4436-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4436-1	C-132 10'	Solid	03/29/23 11:40	03/29/23 16:33
890-4436-2	C-133 10'	Solid	03/29/23 11:30	03/29/23 16:33
890-4436-3	SW-5a 0-10'	Solid	03/29/23 12:10	03/29/23 16:33
890-4436-4	SW-5b 0-10'	Solid	03/29/23 12:20	03/29/23 16:33
890-4436-5	SW-5c 0-10'	Solid	03/29/23 12:30	03/29/23 16:33
890-4436-6	SW-4a 0-10'	Solid	03/29/23 13:00	03/29/23 16:33
890-4436-7	SW-4b 0-10'	Solid	03/29/23 13:30	03/29/23 16:33
890-4436-8	SW-22c 0-4'	Solid	03/29/23 14:15	03/29/23 16:33

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No. 2975

4436 CHAIN-OF-CUSTODY (Rev. 1)

4/19/2023

Larson & Associates, Inc.
Environmental Consultants

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

Data Reported to:

DATE: 3-29-23 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: 1300 RAILEY

LAI PROJECT #: 21-0105-08 COLLECTOR: ETHAN BATES

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	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 ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-132 10'		3/29/23	11:40	S	1				X		X		X	X	X													X		
C-133 10'			11:30		1																									
SW 5a 0-10'			12:10		1																									
SW 5b 0-10'			12:20		1																									
SW 5c 0-10'			12:30		1																									
SW 4a 0-10			1100		1																									
SW 4b 0-10'			1:30		1																									
C-22c 0-4'			2:15		1																									
TOTAL																														

RELINQUISHED BY:(Signature) DATE/TIME 3-29-23 1633 RECEIVED BY: (Signature) Amanda Stluft

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

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

LABORATORY: EUROFINS XENCO

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

LABORATORY USE ONLY:
RECEIVING TEMP: 10.2/10.0 -0.2 THERM#: TM-007
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

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890-4436 Chain of Custody

No. 2975

JSTODY (Rev. 1) 4/19/2023

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

DATE: 3-29-23 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: 1800 RAILEY

LAI PROJECT #: 21-0105-08 COLLECTOR: ETHAN BATES

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT / 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 ☐ CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	TRPH 418.1	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
C-132 10'		3/29/23	11:40	S	1				X		X		X	X	X													X	
C-133 10'			11:30		1																							
SW 5a 0-10'			12:10		1																							
SW 5b 0-10'			12:20		1																							
SW 5c 0-10'			12:30		1																							
SW 4a 0-10			11:00		1																							
SW 4b 0-10'			1:30		1																							
C-22c 0-4'			2:15		1																							
TOTAL																												

RELINQUISHED BY:(Signature) DATE/TIME 3-29-23 1633 RECEIVED BY: (Signature) Amanda Salinas

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

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

LABORATORY: EUROFINS XENCO

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

LABORATORY USE ONLY:
RECEIVING TEMP: 10.2/10.0 -0.2 THERM#: TM-007
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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Received by OCD: 7/19/2023 8:51:08 AM

Released to Imaging: 1/9/2024 10:58:26 AM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-4436-1
SDG Number: 21-0105-08

Login Number: 4436
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-4436-1
SDG Number: 21-0105-08

Login Number: 4436
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/31/23 12:46 PM

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 5/5/2023 3:08:34 PM

JOB DESCRIPTION

Boo Radley
SDG NUMBER 21-0105-08

JOB NUMBER

880-27759-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 1/9/2024 10:38:20 AM

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
5/5/2023 3:08:34 PM

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

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 880-27759-1
SDG: 21-0105-08

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-27759-1
Project/Site: Boo Radley SDG: 21-0105-08

Qualifiers

GC VOA

Qualifier	Qualifier Description
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, low 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: Boo Radley

Job ID: 880-27759-1
SDG: 21-0105-08

Job ID: 880-27759-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-27759-1

Receipt
The sample was received on 5/1/2023 9:03 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.3°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SW-01 0-10 (880-27759-1).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-52339/5-A) and (MB 880-52362/8). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52362 recovered above the upper control limit for Toluene. An acceptable CCV was ran within the 12 hour window therefore, the data have been reported. The associated sample is impacted: (CCV 880-52362/29).

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 880-52400/2-A) and (LCSD 880-52400/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-01 0-10 (880-27759-1). 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.

Released to Imaging: 1/9/2024 10:58:26 AM

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-27759-1
SDG: 21-0105-08

Client Sample ID: SW-01 0-10

Date Collected: 04/23/23 15:01
Date Received: 05/01/23 09:03

Lab Sample ID: 880-27759-1

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		05/01/23 15:45	05/02/23 16:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/01/23 15:45	05/02/23 16:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/01/23 15:45	05/02/23 16:17	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/01/23 15:45	05/02/23 16:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/01/23 15:45	05/02/23 16:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/01/23 15:45	05/02/23 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*05/01/23 15:45*	*05/02/23 16:17*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/01/23 15:45*	*05/02/23 16:17*	*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			05/03/23 11:14	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			05/03/23 09:18	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		05/02/23 11:49	05/02/23 20:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/02/23 11:49	05/02/23 20:00	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/02/23 11:49	05/02/23 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*05/02/23 11:49*	*05/02/23 20:00*	*1*
o-Terphenyl (Surr)	*63*	*S1-*	*70 - 130*	*05/02/23 11:49*	*05/02/23 20:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		5.00		mg/Kg			05/05/23 06:21	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-27759-1
SDG: 21-0105-08

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)
880-27759-1	SW-01 0-10	126	90
880-27759-1 MS	SW-01 0-10	105	74
880-27759-1 MSD	SW-01 0-10	127	97
LCS 880-52339/1-A	Lab Control Sample	106	75
LCSD 880-52339/2-A	Lab Control Sample Dup	104	76
MB 880-52339/5-A	Method Blank	68 S1-	83
MB 880-52362/8	Method Blank	69 S1-	78

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)
880-27759-1	SW-01 0-10	82	63 S1-
LCS 880-52400/2-A	Lab Control Sample	82	63 S1-
LCSD 880-52400/3-A	Lab Control Sample Dup	87	66 S1-
MB 880-52400/1-A	Method Blank	112	92

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-27759-1
SDG: 21-0105-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-52339/5-A
Matrix: Solid
Analysis Batch: 52362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52339

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/23 15:45	05/02/23 15:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/23 15:45	05/02/23 15:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/23 15:45	05/02/23 15:51	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/01/23 15:45	05/02/23 15:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/23 15:45	05/02/23 15:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/01/23 15:45	05/02/23 15:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*05/01/23 15:45*	*05/02/23 15:51*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/01/23 15:45*	*05/02/23 15:51*	*1*

Lab Sample ID: LCS 880-52339/1-A
Matrix: Solid
Analysis Batch: 52362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52339

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1083		mg/Kg		108	70 - 130		
Toluene			0.100	0.1119		mg/Kg		112	70 - 130		
Ethylbenzene			0.100	0.1003		mg/Kg		100	70 - 130		
m,p-Xylenes			0.200	0.2057		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.09980		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*

Lab Sample ID: LCSD 880-52339/2-A
Matrix: Solid
Analysis Batch: 52362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 52339

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1077		mg/Kg		108	70 - 130	0	35
Toluene			0.100	0.1129		mg/Kg		113	70 - 130	1	35
Ethylbenzene			0.100	0.09984		mg/Kg		100	70 - 130	1	35
m,p-Xylenes			0.200	0.2036		mg/Kg		102	70 - 130	1	35
o-Xylene			0.100	0.09853		mg/Kg		99	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*

Lab Sample ID: 880-27759-1 MS
Matrix: Solid
Analysis Batch: 52362

Client Sample ID: SW-01 0-10
Prep Type: Total/NA
Prep Batch: 52339

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0998	0.09929		mg/Kg		99	70 - 130		
Toluene	<0.00199	U	0.0998	0.09626		mg/Kg		96	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-27759-1
SDG: 21-0105-08

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

Lab Sample ID: 880-27759-1 MS
Matrix: Solid
Analysis Batch: 52362

Client Sample ID: SW-01 0-10
Prep Type: Total/NA
Prep Batch: 52339

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.08149		mg/Kg		82	70 - 130
m,p-Xylenes	<0.00398	U	0.200	0.1636		mg/Kg		82	70 - 130
o-Xylene	<0.00199	U	0.0998	0.08188		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*

Lab Sample ID: 880-27759-1 MSD
Matrix: Solid
Analysis Batch: 52362

Client Sample ID: SW-01 0-10
Prep Type: Total/NA
Prep Batch: 52339

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1128		mg/Kg		112	70 - 130	13	35
Toluene	<0.00199	U	0.100	0.1033		mg/Kg		103	70 - 130	7	35
Ethylbenzene	<0.00199	U	0.100	0.08989		mg/Kg		90	70 - 130	10	35
m,p-Xylenes	<0.00398	U	0.201	0.1810		mg/Kg		90	70 - 130	10	35
o-Xylene	<0.00199	U	0.100	0.08771		mg/Kg		87	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-52362/8
Matrix: Solid
Analysis Batch: 52362

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			05/02/23 11:47	1
Toluene	<0.00200	U	0.00200	mg/Kg			05/02/23 11:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			05/02/23 11:47	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg			05/02/23 11:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			05/02/23 11:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			05/02/23 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*		*05/02/23 11:47*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*		*05/02/23 11:47*	*1*

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

Lab Sample ID: MB 880-52400/1-A
Matrix: Solid
Analysis Batch: 52354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52400

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		05/02/23 08:49	05/02/23 09:01	1

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-27759-1
Project/Site: Boo Radley SDG: 21-0105-08

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

Lab Sample ID: MB 880-52400/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 52354 **Prep Batch: 52400**

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		05/02/23 08:49	05/02/23 09:01	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/23 08:49	05/02/23 09:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*05/02/23 08:49*	*05/02/23 09:01*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*05/02/23 08:49*	*05/02/23 09:01*	*1*

Lab Sample ID: LCS 880-52400/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 52354 **Prep Batch: 52400**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1037		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	939.7		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*82*		*70 - 130*
o-Terphenyl (Surr)	*63*	*S1-*	*70 - 130*

Lab Sample ID: LCSD 880-52400/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 52354 **Prep Batch: 52400**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1024		mg/Kg		102	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	986.2		mg/Kg		99	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*87*		*70 - 130*
o-Terphenyl (Surr)	*66*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-52326/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 52703

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/05/23 04:13	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-27759-1
SDG: 21-0105-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-52326/2-A
Matrix: Solid
Analysis Batch: 52703

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-52326/3-A
Matrix: Solid
Analysis Batch: 52703

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	237.8		mg/Kg		95	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-27759-1
SDG: 21-0105-08

GC VOA

Prep Batch: 52339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27759-1	SW-01 0-10	Total/NA	Solid	5035	
MB 880-52339/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52339/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52339/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27759-1 MS	SW-01 0-10	Total/NA	Solid	5035	
880-27759-1 MSD	SW-01 0-10	Total/NA	Solid	5035	

Analysis Batch: 52362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27759-1	SW-01 0-10	Total/NA	Solid	8021B	52339
MB 880-52339/5-A	Method Blank	Total/NA	Solid	8021B	52339
MB 880-52362/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-52339/1-A	Lab Control Sample	Total/NA	Solid	8021B	52339
LCSD 880-52339/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52339
880-27759-1 MS	SW-01 0-10	Total/NA	Solid	8021B	52339
880-27759-1 MSD	SW-01 0-10	Total/NA	Solid	8021B	52339

Analysis Batch: 52488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27759-1	SW-01 0-10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 52354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27759-1	SW-01 0-10	Total/NA	Solid	8015B NM	52400
MB 880-52400/1-A	Method Blank	Total/NA	Solid	8015B NM	52400
LCS 880-52400/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52400
LCSD 880-52400/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52400

Prep Batch: 52400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27759-1	SW-01 0-10	Total/NA	Solid	8015NM Prep	
MB 880-52400/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52400/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52400/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 52469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27759-1	SW-01 0-10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 52326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27759-1	SW-01 0-10	Soluble	Solid	DI Leach	
MB 880-52326/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52326/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52326/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-27759-1
SDG: 21-0105-08

HPLC/IC

Analysis Batch: 52703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27759-1	SW-01 0-10	Soluble	Solid	300.0	52326
MB 880-52326/1-A	Method Blank	Soluble	Solid	300.0	52326
LCS 880-52326/2-A	Lab Control Sample	Soluble	Solid	300.0	52326
LCSD 880-52326/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52326

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-27759-1
SDG: 21-0105-08

Client Sample ID: SW-01 0-10

Date Collected: 04/23/23 15:01
Date Received: 05/01/23 09:03

Lab Sample ID: 880-27759-1

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	52339	05/01/23 15:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52362	05/02/23 16:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52488	05/03/23 11:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			52469	05/03/23 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52400	05/02/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52354	05/02/23 20:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52326	05/01/23 13:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52703	05/05/23 06:21	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: 880-27759-1
Project/Site: Boo Radley SDG: 21-0105-08

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: 880-27759-1
Project/Site: Boo Radley SDG: 21-0105-08

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	EPA	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

EPA = US Environmental Protection Agency

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: Boo Radley

Job ID: 880-27759-1
SDG: 21-0105-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-27759-1	SW-01 0-10	Solid	04/23/23 15:01	05/01/23 09:03

Released to Imaging: 1/9/2024 10:58:26 AM
Received by OCD: 7/19/2023 8:51:08 AM

27759 No. 3033

CHAIN-OF-CUSTODY

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

DATE 5/11/2023 PAGE 1 OF 1

PO#. _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR bsg

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

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
SW-01 0-10		4/27/23	1501	S	1				X		X		X	X	X													X		202

880-27759 Chain of Custody

TOTAL 1

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
David Stiffler	5/11/23 9:03	
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 -1.6/-1.3 THERM# IR#30
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-27759-1
SDG Number: 21-0105-08

Login Number: 27759
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 F

Photographic Documentation



Saturated soil related to produced water release, viewing to the southeast.



Saturated soil related to produced water release, viewing to the east.



Saturated soil related to produced water release, viewing to the southwest.



Path of produced water produced water release in pasture, viewing to the southeast.



Path of produced water release in pasture, viewing to the south.



Affected area in pasture, viewing to the south.



Affected area in pasture, viewing to the southeast.



Affected area in pasture, viewing to the southwest.



Affected area in pasture, viewing to the southeast.



Affected area in drainage, viewing to the northeast.



Affected area in drainage, viewing to the south.



Affected area in drainage, viewing to the south.



Excavated area in drainage in spill area C, viewing to the northwest.



Excavated area in drainage in spill area C, viewing to the northwest.



Excavated area in spill area B, viewing to the northwest.



Excavated area in spill area B, viewing to the southwest.



Excavated area in spill area B, viewing to the west.



Excavated area in spill area B, viewing to the northwest.



Excavated area in spill area B, viewing to the west.



Excavated area in spill area B, viewing to the west.



Excavated area in spill area B, viewing to the east.



Excavated area in spill area A, viewing to the west.



Excavated area in spill area A, viewing to the southeast.



Excavated area in spill area A, viewing to the southwest.



Excavated area in spill area A, viewing to the southeast.



Excavated area in spill area A, viewing to the east.



Excavated area in spill area A, viewing to the east.



Aerial image of spill area A, viewing to the east.



Aerial image of spill area b, viewing to the east.



Aerial image of spill areas A, B, and C, viewing to the southeast.



Aerial image of spill areas B and C, viewing to the southeast.



Aerial image of spill area C, viewing to the southeast.



Aerial image of spill areas A and B, vertical view.



Aerial image of spill areas B and C, vertical view.



Excavated area in spill area C, viewing to the northwest.



Excavated area in spill area C, viewing to the northwest.



Excavated area in spill area C, viewing to the northwest.



Excavated area in spill area C, viewing to the northwest.



Excavated area in spill area B, viewing to the west.



Excavated area in spill area B, Viewing to the northwest.



Excavated area in spill area B, viewing to the northwest.

3. 

Excavated area in spill area B, viewing to the northwest.



Excavated area in spill area B, viewing to the west.



Excavated area in spill area B, viewing to the west.



Excavated area in spill area B, viewing to the south.



Excavated area in spill area B, viewing to the southwest.



Excavated area in spill area B, viewing to the west.



Excavated area in spill area B, viewing to the northeast.



Excavated area in spill area B, viewing to the southeast.



Excavated area in spill area B, viewing to the southwest.



Excavated area in spill area B, viewing to the northwest.



Excavated area in spill area B, Viewing to the east.



Aerial image of spill area A, viewing to the south.



Aerial image of spill areas A and B, viewing to the southeast.



Aerial image of spill areas A and B, viewing to the southeast.



Aerial image of spill area C, viewing to the southeast.



Aerial image of spill area C, viewing to the northwest.



Aerial image of spill area B, viewing to the northwest.



Aerial image of spill areas A and B, viewing to the northwest.



Aerial image of spill areas A and B, viewing to the northwest.



Excavated area in spill area A, viewing to the west.



Excavated area in spill area A, viewing to the southwest.



Excavated area in spill area A, viewing to the south.



Excavated area in spill area A, viewing to the south.



Excavated area in spill area A, viewing to the southeast.



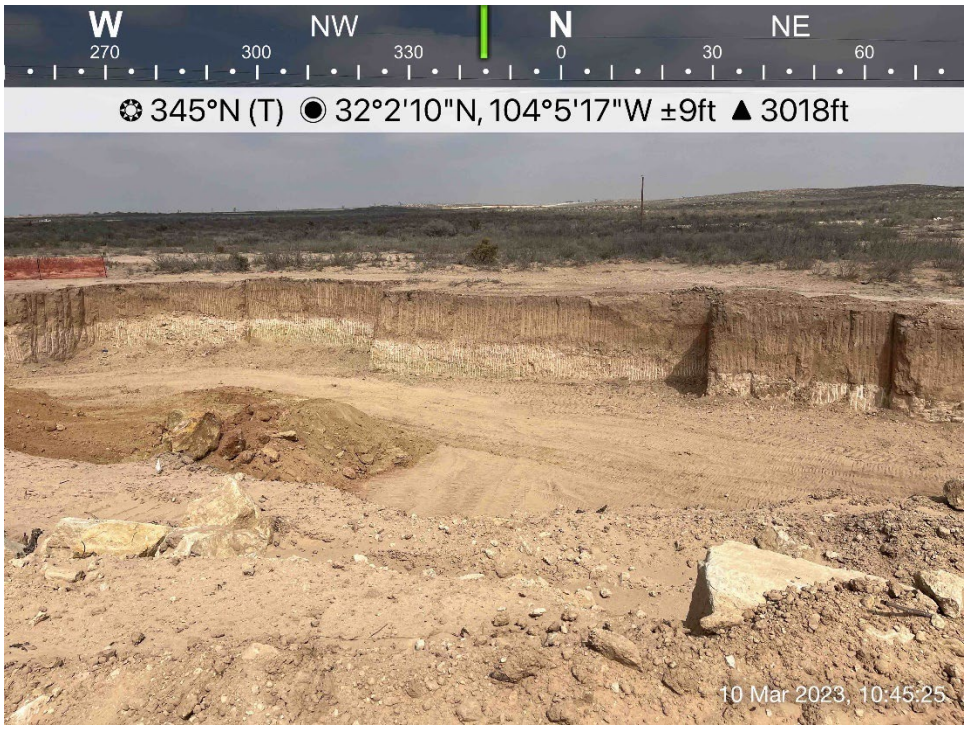
Excavated area in spill area A, viewing to the south.



Excavated area in spill area A, viewing to the east.



Excavated area in spill area A, viewing to the east.



Excavated area in spill area A, viewing to the north.



Excavated area in spill area A, viewing to the northwest.



Excavated area in spill area A, viewing to the southwest.



Excavated area in spill area, viewing to the north.



Excavated area in spill area C, viewing to the northwest.



Excavated area in spill area C, viewing to the northwest.



Excavated area in spill area C, viewing to the northwest.



Excavated area in spill area C, viewing to the north.



Excavated area in spill area C, viewing to the north.



Excavated area in spill area B, viewing to the west.



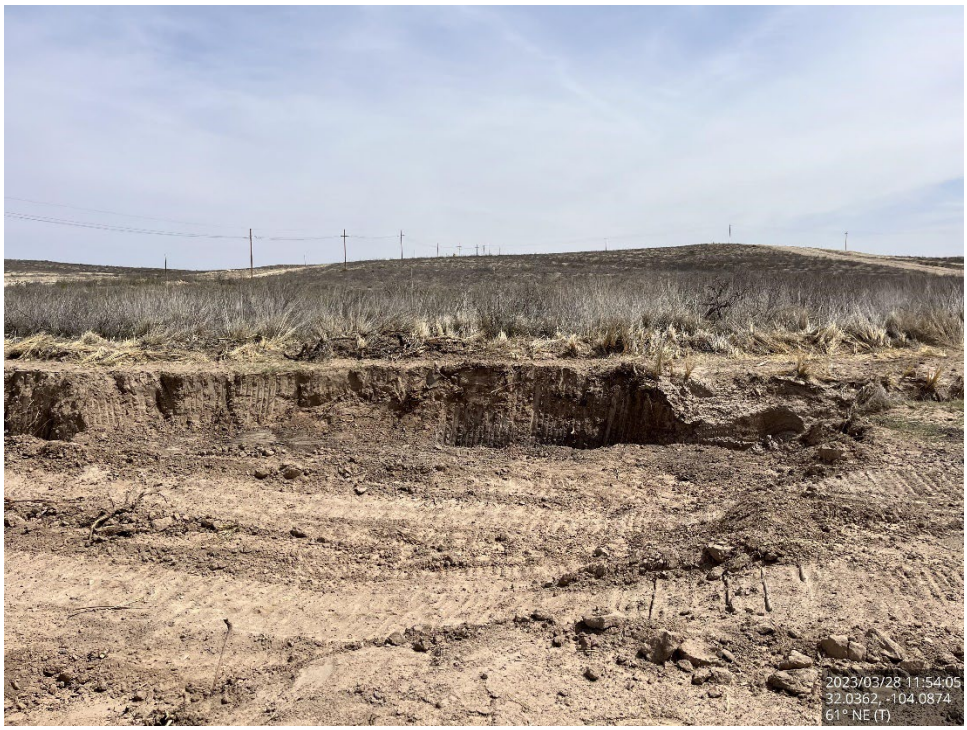
Excavated area in spill area B, viewing to the southwest.



Excavated area in spill area B, viewing to the west.



Excavated area in spill area B, viewing to the northwest.



Excavated area in spill area B, viewing to the northeast.



Excavated area in spill area B, viewing to the north.



Excavated area in spill area B, viewing to the northwest.



Excavated area in spill area B, viewing to the east.



Excavated area in spill area B, viewing to the northeast.



Excavated area in spill area B, viewing to the northeast.



Excavated area in spill area B, viewing to the southwest.



Excavated area in spill area B, viewing to the south.



Excavated area in spill area B, viewing to the west.



Excavated area in spill area B, viewing to the southwest.



Excavated area in spill area B, viewing to the west.



Excavated area in spill area B, viewing to the southwest.



Excavated area in spill area B, viewing to the west.



Excavated area in spill area A, viewing to the southwest.



Excavated area in spill area A, viewing to the west.



Excavated area in spill area A, viewing to the west.



Excavated area in spill area A, viewing to the southwest.



Excavated area in spill area A, viewing to the southwest.



Excavated area in spill area A, viewing to the southwest.



Excavated area in spill area A, viewing to the south.



Excavated area in spill area A, viewing to the east.



Excavated area in spill area A, viewing to the southeast.



Excavated area in spill area A, viewing to the northwest.



Excavated area in spill area A, viewing to the east.



Excavated area in spill area A, viewing to the south.



Excavated area in spill area A, viewing to the east.



Excavated area in spill area A, viewing to the northeast.



Excavated area in spill area A, viewing to the northeast.



Excavated area in spill area A, viewing to the southwest.



Excavated area in spill area A, viewing to the west.



Excavated area in spill area A, viewing to the northwest.



Excavated area in spill area A, viewing to the north.



Excavated area in spill area A, viewing to the northeast.



Aerial image of spill area C, viewing to the northwest.



Aerial image of spill area B, viewing to the northwest.



Aerial image of spill area B, viewing to the west.



Aerial image of spill area A viewing to the west.



Aerial image of spill area C, viewing to the east.



Aerial image of spill areas A, B, and C, viewing to the southeast.



Aerial image of spill area B, viewing to the southeast.



Aerial image of spill area C, viewing to the southeast.



Liner in Spill Area A, viewing to the north.



Liner in Spill Area A, viewing to the east.



Liner in Spill Area A, viewing to the east.



Liner in Spill Area A, viewing to the east.



Liner in Spill Area A, viewing to the south.



Liner in Spill Area A, viewing to the southeast.



Liner in Spill Area A, viewing to the southwest.



Aerial image of liner in Spill Area A, viewing to the south.



Aerial image of liner in Spill Area A, viewing to the west.



Aerial image of liner in Spill Area A, viewing to the north.



Aerial image of liner in Spill Area A, viewing to the east.



Aerial image of liner in Spill Area A, vertical view.



Backfilled and seeded excavation in spill area C, viewing veing to the northwest.



Backfilled and seeded excavation in spill area C, viewing to the southeast.



Bacfilled and seed excavation in spill area C, viewing to the north.



Backiflled and seeded excavation in spill area B, viewing to the north.



Backfilled and seeded excavation in spill area B, viewing to the northwest.



Backfilled and seeded excavation spill areas A and B, viewing to the west.



Backfilled and seeded excavation in spill area A, vewing to the west.



Backfilled and seeded excavation in spill area A, viewing to the southeast.



Backfilled and seeded excavation in spill areas A and B, viewing to the east.



Backfilled and seeded excavation in spill area B, viewing to the east.



Backfilled and seeded excavtion in spill area B, viewing to the east.



Backfilled and seeded excavation in spill areas B and C, viewing to the east.



Backfilled and seeded excavation in spill area B, viewing to the southeast.



Backfilled and seeded excavation in spill areas B and C, viewing to the southeast.



Backfilled and seed excavation in spill area C, viewing to the southeast.



Backfilled and seeded excavation in spill area C, viewing to the southeast.



Backfilled and seeded excavation in spill area C, viewing to the southeast.



Backfilled and seeded excavation in spill area C, viewing to the southeast.



Backfilled excavation on pad in spill area A, viewing to the east.



Backfilled excavation on pad in spill area A, viewing to the southwest.



Backfilled excavation on pad in spill area A, viewing to the southwest.



Aerial image of backfilled and seeded excavation in spill areas A and B, viewing to the east.



Aerial Image of backfilled and seed excavation in spill areas A and B, viewing to the east.



Aerial image of backfilled and seed excavation in spill areas A and B, viewing to the southeast.



Aerial image of backfilled and seeded excavation in spill area C, viewing to the east.



Aerial Image of backfilled and seed excavation in spill area C, viewing to the east.



Aerial image of backfilled and seeded excavation in spill areas A, B, and C, viewing to the northwest.



Aerial image of backfilled and seeded excavation in spill areas B and A, viewing to the northwest.



Aerial image of backfilled and seed excavation in spill area A, viewing to the northwest.



Aerial image of backfilled and seeded excavation in spill area A, viewing to the northwest.



Aerial image of backfilled and seeded excavation in spill areas A and B, viewing to the west.



Aerial image of backfilled and seed excavation in spill areas B and C, viewing to the southeast.



Aerial image of backfilled and seed excavation in spill areas A, B, and C, viewing to the south.

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 241983

CONDITIONS

Operator: SELECT ENERGY SERVICES, LLC PO Box 1715 Gainesville, TX 76240	OGRID: 289068
	Action Number: 241983
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2135052895 COP - BOO RADLEY COM 701H, 702H, 703H, thank you. This Remediation Closure Report is approved. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc.., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	1/9/2024