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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

| | |
|---|---|
| Incident ID | nAPP2135052895 |
| District RP | |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party Select Energy Services | OGRID 289068 |
| Contact Name Halie Butler | Contact Telephone 281-467-3153 |
| Contact email hbutler@selectenergy.com | Incident # *(assigned by OCD)* nAPP2135052895 |
| Contact mailing address P.O. Box 1715 Gainesville, TX 76241 | |

## Location of Release Source

Latitude 32.03643 Longitude -104.08854
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Boo Radley Com 701H, 702H, 703H | Site Type off-site |
| Date Release Discovered 12/8/2021 | API# *(if applicable)* |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| P | 16 | 26 S | 28 E | Eddy |

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

## Nature and Volume of Release

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

| | | |
|---|---|---|
| ☐ Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| ☑ Produced Water | Volume Released (bbls) Unknown | Volume Recovered (bbls) 0 bbls |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☑ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

Water tranfer line rupture

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nAPP2135052895 |
| District RP | |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☑ Yes ☐ No | If YES, for what reason(s) does the responsible party consider this a major release?<br><br>Unauthorized release, excluding gases, of 25 barrels or more |

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

NMOCD recieved notice of release on 12/9/2021

## Initial Response

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

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

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

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

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

Printed Name: Halie Butler
Title: Sr. Corporate Compliance and Enviromental Manager

Signature: HButler
Date: 6/30/2022

email: hbutler@selectenergy.com
Telephone: 281-467-3153

**OCD Only**

Received by:
Date:

| | |
|---|---|
| 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? | <50 (ft bgs) |
| Did this release impact groundwater or surface water? | ☐ Yes ☑ No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ☑ No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ☑ No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☑ No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ☑ No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☑ No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☑ No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☑ No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☑ No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☑ Yes ☐ No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☑ No |
| Did the release impact areas **not** on an exploration, development, production, or storage site? | ☑ Yes ☐ No |

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

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

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

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

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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: Halie Butler Title: Sr. Corporate Compliance and Enviromental Manager

Signature: HButler Date: 6/30/2022

Email: hbutler@selectenergy.com Telephone: 281-467-3153

**OCD Only**

Received by: _____ Date: _____

| | |
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| 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.

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Printed Name: Halie Butler  Title: Sr. Corporate Compliance and Enviromental Manager

Signature: HButler  Date: 6/30/2022

Email: hbutler@selectenergy.com  Telephone: 281-467-3153

**OCD Only**

Received by: _____  Date: _____

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

Signature: _____  Date: _____

| | |
|---|---|
| Incident ID | nAPP2135052895 |
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| Facility ID | |
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Printed Name: Halie Butler  Title: Sr. Corporate Compliance and Enviromental Manager

Signature: HButler  Date: 6/30/2022

Email: hbutler@selectenergy.com  Telephone: 281-467-3153

**OCD Only**

Received by: Robert Hamlet  Date: 7/12/2022

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

Signature: Robert Hamlet  Date: 7/12/2022

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
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Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

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# Release Notification

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|---|---|
| Responsible Party Select Energy Services | OGRID 289068 |
| Contact Name Halie Butler | Contact Telephone 281-467-3153 |
| Contact email hbutler@selectenergy.com | Incident # *(assigned by OCD)* nAPP2135052895 |
| Contact mailing address P.O. Box 1715 Gainesville, TX 76241 | |

## Location of Release Source

Latitude 32.03643 Longitude -104.08854
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Boo Radley Com 701H, 702H, 703H | Site Type off-site |
| Date Release Discovered 12/8/2021 | API# *(if applicable)* |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| P | 16 | 26 S | 28 E | Eddy |

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

## Nature and Volume of Release

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

| | | |
|---|---|---|
| ☐ Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| ☑ Produced Water | Volume Released (bbls) Unknown | Volume Recovered (bbls) 0 bbls |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☑ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

Water tranfer line rupture

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nAPP2135052895 |
| District RP | |
| Facility ID | |
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| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☑ Yes ☐ No | If YES, for what reason(s) does the responsible party consider this a major release?<br><br>Unauthorized release, excluding gases, of 25 barrels or more |

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

NMOCD recieved notice of release on 12/9/2021

## Initial Response

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☑ The source of the release has been stopped.
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Printed Name: Halie Butler
Title: Sr. Corporate Compliance and Enviromental Manager

Signature: HButler
Date: 6/30/2022

email: hbutler@selectenergy.com
Telephone: 281-467-3153

**OCD Only**

Received by:
Date:

| | |
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| Incident ID | nAPP2135052895 |
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# 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? | <50 (ft bgs) |
| Did this release impact groundwater or surface water? | ☐ Yes ☑ No |
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| 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 |
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| 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 |
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| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☑ No |
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| 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
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- ☑ Boring or excavation logs
- ☑ Photographs including date and GIS information
- ☑ Topographic/Aerial maps
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Page 4

State of New Mexico
Oil Conservation Division

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| Incident ID | nAPP2135052895 |
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Printed Name: Halie Butler  Title: Sr. Corporate Compliance and Enviromental Manager

Signature: HButler  Date: 6/30/2022

Email: hbutler@selectenergy.com  Telephone: 281-467-3153

**OCD Only**

Received by: _____  Date: _____

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.

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Printed Name: Halie Butler  Title: Sr. Corporate Compliance and Enviromental Manager

Signature: HButler  Date: 6/30/2022

Email: hbutler@selectenergy.com  Telephone: 281-467-3153

**OCD Only**

Received by: _____  Date: _____

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

Signature: _____  Date: _____

# Tracking Number: nAPP2135052895
# Delineation Report and Remediation Plan
# Boo Radley Com. 701H, 702H, 703H
# Produced Water Release
Eddy County, New Mexico

Latitude: N 32.03643°
Longitude: W -104.08854°

LAI Project No. 21-105-08

June 29, 2022

Prepared for:
Select Energy Services, 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
Mark Larson
Certified Professional Geologist #10490

Daniel St. Germain
Daniel St. Germain
Staff Geologist

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## Table of Contents

1.0 INTRODUCTION ..... 1

***1.1 Background*** ..... 1

***1.2 Physical Setting*** ..... 1

***1.3 Remediation Standards*** ..... 1

2.0 DELINEATION ..... 2

3.0 REMEDIATION PLAN ..... 3

3.1 Variance Request ..... 4

**Tables**

Table 1 Delineation Soil Sample Analytical Data Summary

**Figures**

Figure 1 Topographic Map
Figure 2 Aerial Map Showing Sample Locations
Figure 3 Aerial Map Showing Proposed Excavation Areas

**Appendices**

Appendix A Initial C-141
Appendix B Karst Risk Potential
Appendix C Soil Boring Log
Appendix D Laboratory Reports
Appendix E Photographs

# 1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Select Energy Services, 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) 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 rupture 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 acre. The initial C-141 was submitted to NMOCD District II on December 9, 2021, and was assigned incident number nAPP2135052895. Appendix A presents the 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.
- The capillary fringe was encountered at about 40 feet below ground surface (bgs) at sample location S-1 on May 18, 2021, indicating that groundwater is less than 50 feet bgs.

Appendix B presents a karst potential map. Appendix C presents the S-1 boring log.

## *1.3 Remediation Standards*

The following delineation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC for groundwater less than 50 feet bgs:

- 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 Re-Vegetation) requires the operator to restore the impacted surface area that existed prior to the release or their final land use.

## 2.0 DELINEATION

On December 20, 2021, LAI personnel used a stainless-steel hand auger to collect soil samples from nine (9) locations inside the spill area (S-1 through S-9) and at seven (7) locations outside the spill area (S-10 through S-16). The samples were collected from about 0.5 and 1-foot bgs at each sample location. The soil samples were delivered under chain of custody and preservation to Eurofins-Xenco Laboratories (Xenco) in Midland, Texas. Xenco analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW-846 Method 8021B, total petroleum hydrocarbons (TPH), including gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) by Method 8015M, and chloride by EPA Method 300.

Benzene, BTEX, and TPH were below the NMOCD delineation standards in Table 1 (19.15.29 NMAC) of 10 milligrams per kilogram (mg/Kg), 50 mg/Kg, and 100 mg/Kg, respectively. Chloride exceeded the NMOCD delineation limit of 600 mg/Kg in the following twelve (12) samples:

| Sample ID | Depth (ft) | Chloride (mg/Kg) |
|---|---|---|
| S-1 | 0.5 | 4,990 |
| S-1 | 1 | 2,230 |
| S-2 | 0.5 | 4,830 |
| S-2 | 1 | 966 |
| S-3 | 0.5 | 3,460 |
| S-5 | 0.5 | 5,220 |
| S-7 | 0.5 | 3,900 |
| S-7 | 1 | 3,440 |
| S-8 | 0.5 | 3,770 |
| S-8 | 1 | 2,570 |
| S-9 | 0.5 | 5,930 |
| S-9 | 1 | 3,580 |

Between January 24 and 27, 2022, LAI personnel used a Geoprobe® 7822DT direct push rig to further delineate chloride at sample locations S-1, S-2, S-7, S-8, and S-9. Soil samples were collected at an additional eleven (11) samples locations (PB-1 through PB-10) to assess the extent of the release and delineate the spill. The samples were collected from about one (1), three (3), five (5), and ten (10) feet bgs. A sample was collected from about 12 feet bgs at sample location S-1. The samples were delivered under chain of custody and preservation to Xenco and analyzed for BTEX, TPH, and chloride. Xenco reported that all samples were the delineation limits for BTEX and TPH. Chloride was reported above the delineation limit of 600 mg/Kg in the following samples:

| Sample ID | Depth (ft) | Chloride (mg/Kg) |
|---|---|---|
| S-1 | 1 | 1,940 |
| S-1 | 3 | 3,260 |
| S-1 | 5 | 1,180 |
| S-1 | 9 | 2,530 |
| S-1 | 12 | 1,010 |
| S-2 | 1 | 3,190 |
| S-2 | 3 | 2,100 |
| S-2 | 5 | 2,550 |
| S-2 | 9 | 10,200 |
| S-9 | 1 | 13,500 |
| PB-3 | 1 | 1,920 |
| PB-4 | 5 | 747 |
| PB-4 | 10 | 5,570 |
| PB-5 | 1 | 801 |
| PB-6 | 1 | 6,640 |
| PB-7 | 1 | 4,480 |
| PB-8 | 1 | 16,700 |

On May 17 and 18, 2022, Scarbrough Drilling, Inc. (SDI), under the supervision of LAI personnel, further delineated chloride at sample locations S-1, S-2, and PB-4 with an air rotary drilling rig. Samples were collected at five (5) foot intervals between approximately 15 and 40 feet bgs at S-1, 10 and 30 feet bgs at S-2, and 15 and 20 feet bgs at PB-4. Xenco analyzed the samples for chloride and reported concentrations in the deepest samples from sample locations S-1, S-2, and PB-4 below 600 mg/Kg, demonstrating that chloride was fully delineated for groundwater less than 50 feet bgs. Figure 2 presents a map showing the sample locations. Table 2 presents the delineation soil sample analytical data. Appendix D presents the laboratory reports.

## 3.0 REMEDIATION PLAN

Select proposes 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 10 feet bgs.

- Collect about 332 -5- point composite confirmation soil samples from the bottom and sidewalls of the excavation, or approximately 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 submitted to the NMOCD.

## 3.1 Variance Request

In accordance with 19.29.14(A) NMAC, Select requests a variance to install 20-mil thickness polyethylene liners in the bottom of the excavations encompassing locations S-1 (995 square feet) and S-2 (2,543 square feet). Following 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. Figure 3 presents the proposed excavation areas.

A closure report will be submitted to the NMOCD upon completion of the remediation. Select respectfully requests your approval of the remediation plan.

# 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***

# Figures

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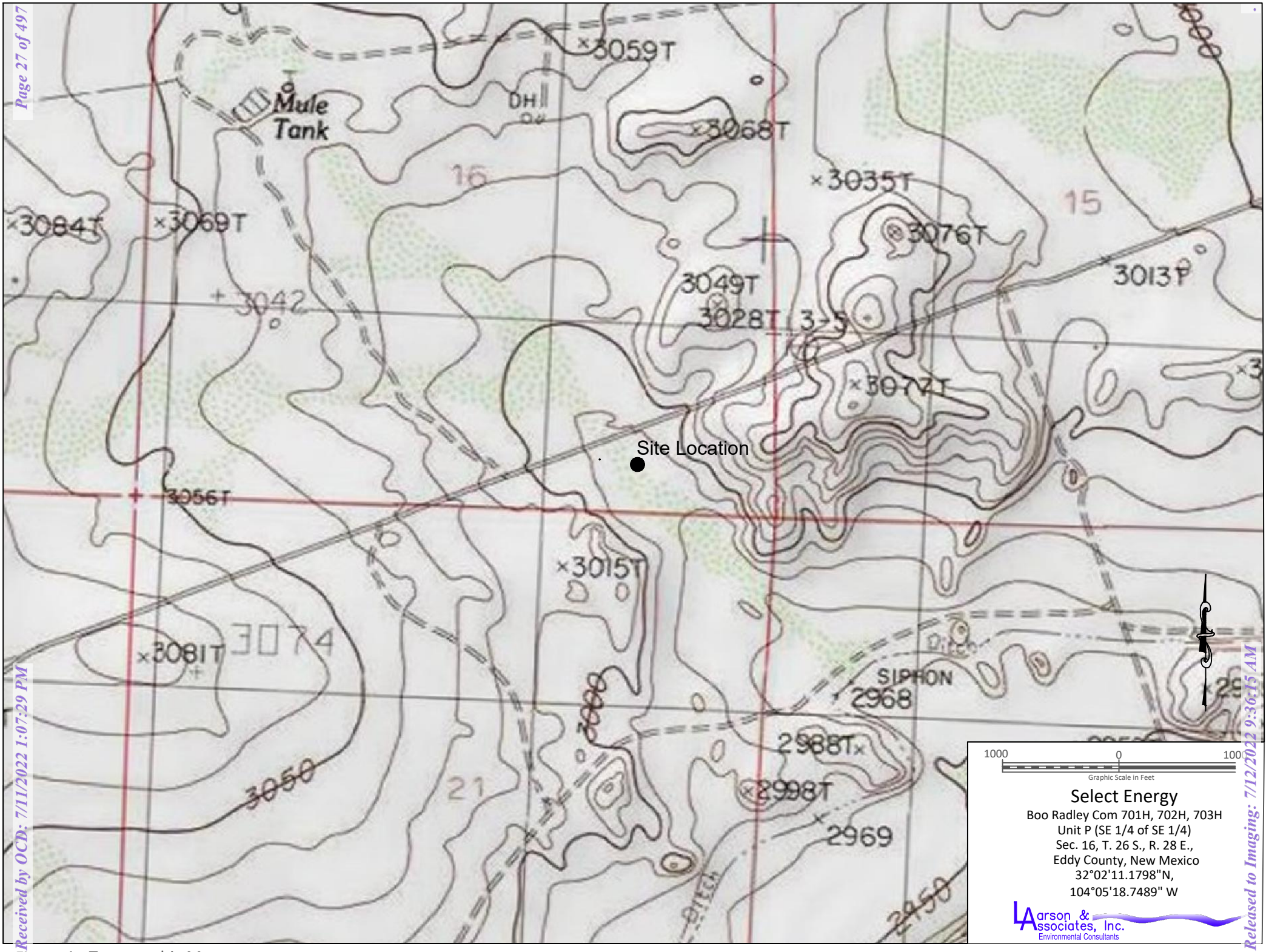



Figure 1 - Topographic Map

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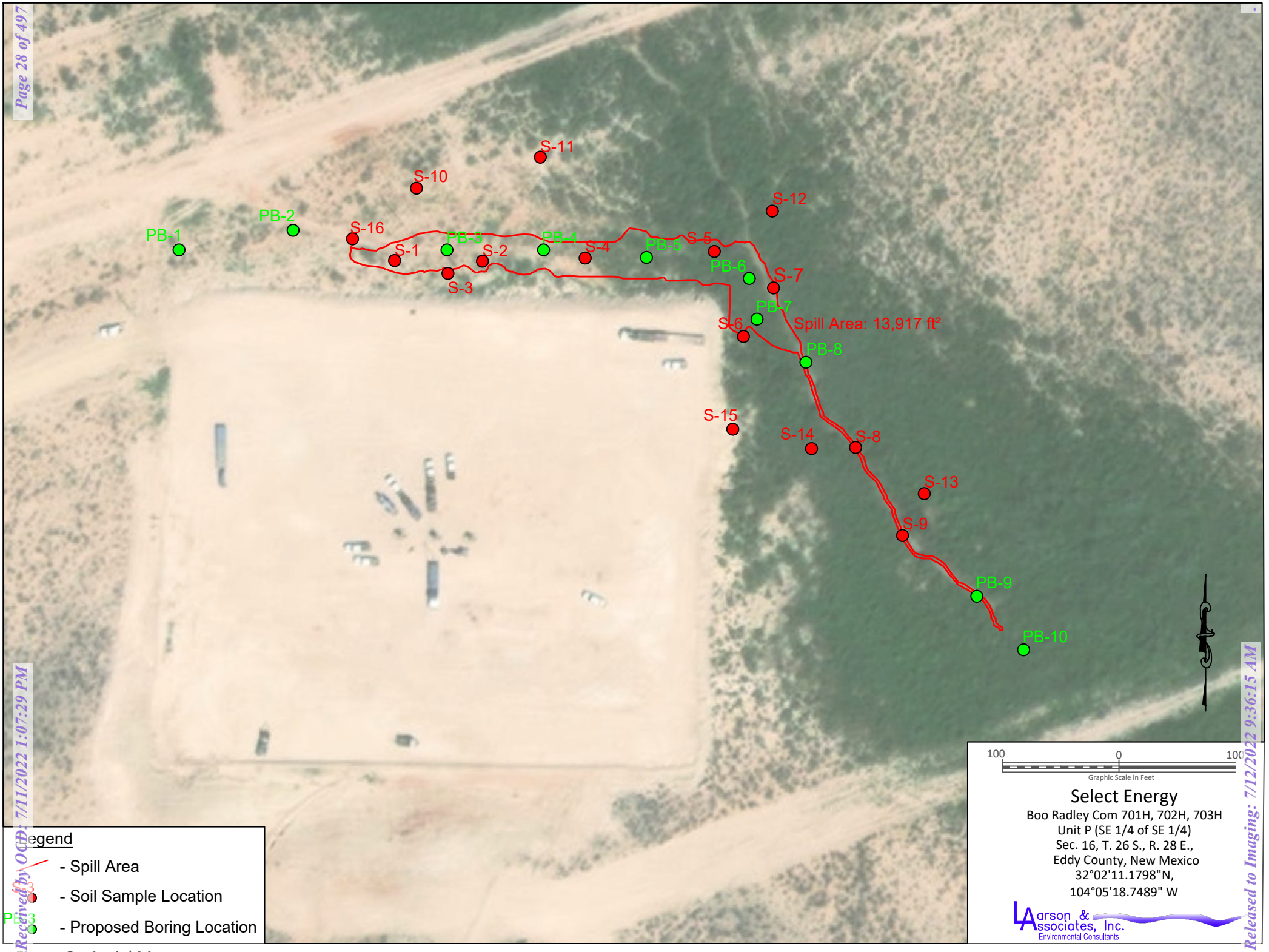



Figure 2 - Aerial Map

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Released to Imaging: 7/12/2022 9:36:15 AM

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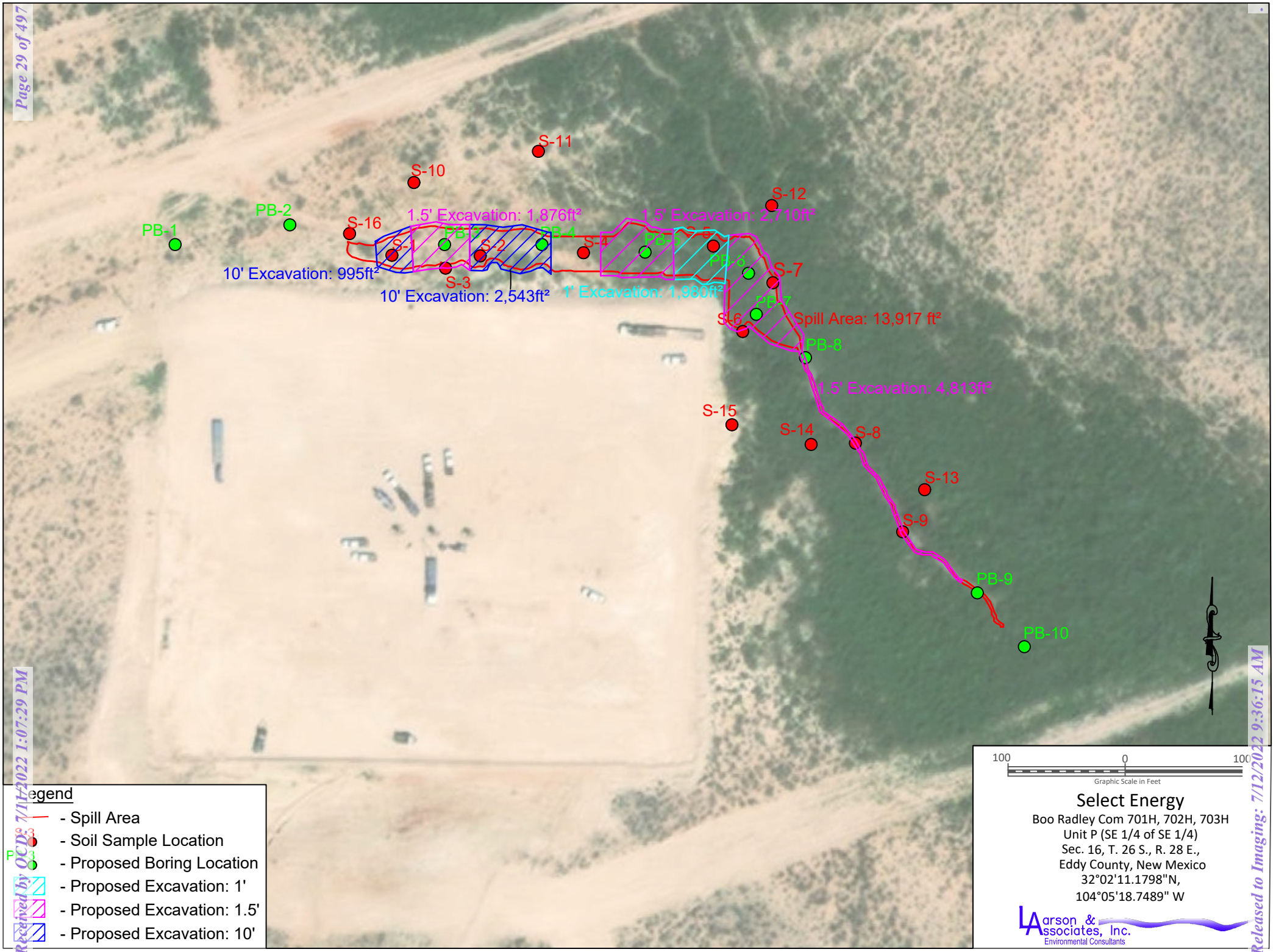



Figure 3 - Aerial Map Showing Proposed Excavation Areas

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Released to Imaging: 7/12/2022 9:36:15 AM

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

**QUESTIONS**

| **Location of Release Source**<br>*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**<br>*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**<br>*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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# State of New Mexico
# Energy, Minerals and Natural Resources
# Oil Conservation Division
# 1220 S. St Francis Dr.
# Santa Fe, NM 87505



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>SELECT ENERGY SERVICES, LLC<br>201 California Street<br>Gainesville, TX 76240 | OGRID:<br>289068 |
| | Action Number:<br>67556 |
| | Action Type:<br>[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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# State of New Mexico
# Energy, Minerals and Natural Resources
# Oil Conservation Division
# 1220 S. St Francis Dr.
# Santa Fe, NM 87505



## ACKNOWLEDGMENTS

| | |
|---|---|
| Operator:<br>SELECT ENERGY SERVICES, LLC<br>201 California Street<br>Gainesville, TX 76240 | OGRID:<br>289068 |
| | Action Number:<br>67556 |
| | Action Type:<br>[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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# Energy, Minerals and Natural Resources
# Oil Conservation Division
# 1220 S. St Francis Dr.
# Santa Fe, NM 87505



## CONDITIONS

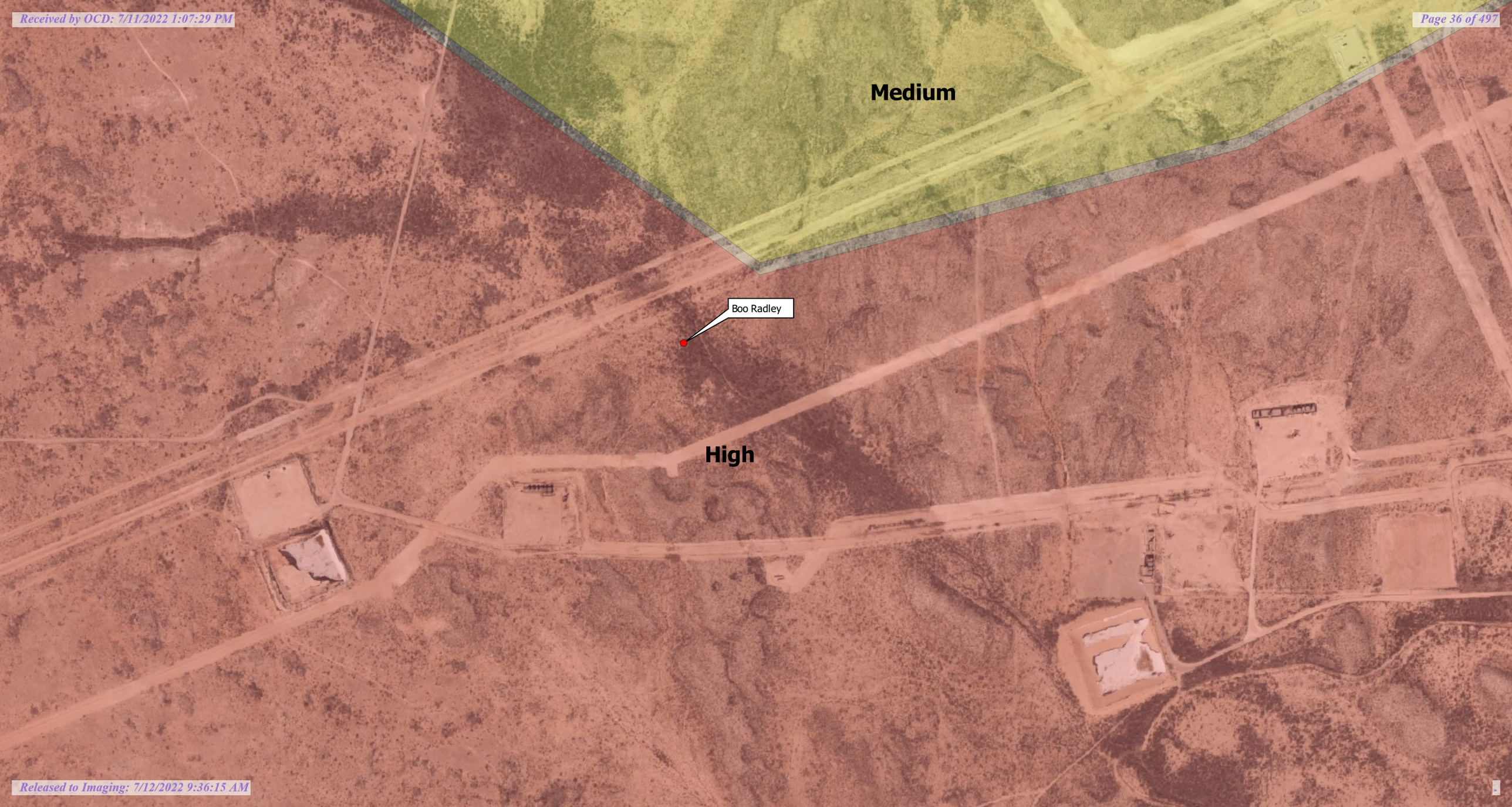
| | |
|---|---|
| Operator:<br>SELECT ENERGY SERVICES, LLC<br>201 California Street<br>Gainesville, TX 76240 | OGRID:<br>289068 |
| | Action Number:<br>67556 |
| | Action Type:<br>[NOTIFY] Notification Of Release (NOR) |

**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

# Karst Risk Potential


Medium
Boo Radley
High

# Appendix C

# Soil Boring Log

# BORING RECORD

Start: 13:50
Finish: 14:32

| GEOLOGIC UNIT | DEPTH | DESCRIPTION LITHOLOGIC | DESCRIPTION USCS | GRAPHIC LOG |
|---|---|---|---|---|
| | 15 | Caliche, 2.5YR 8/3, Pale Brown, With Small Amount of Gypsum | | |
| | 20 | 2.5YR 8/1, White, Well Indurated, With Small Amounts of Gypsum | Caliche | |
| | 25 | Silty Sand, 2.5YR 5/6, Red, Very Fine Grained Sand, Rounded, Sub Rounded, Well Sorted, With Very Small Amounts of Gypsum | | |
| | 30 | | | |
| | 35 | | SM | |
| | 40 | 10YR 6/4, Light Yellowish Brown, Very Fine Grained Sand, Rounded, Well Sorted, No Observable Gypsum | | |
| | | TD: 40' | | |
| | 45 | | | |
| | 50 | | | |
| | 55 | | | |

PID READING
PPM X _____
2 4 6 8 10 12 14 16 18

SAMPLE
NUMBER | PID READING | RECOVERY | DEPTH

REMARKS
BACKGROUND PID READING
SOIL : _____ PPM
SOIL : _____ PPM

ONE CONTINUOUS AUGER SAMPLER
STANDARD PENETRATION TEST
UNDISTURBED SAMPLE
WATER TABLE ( 24 HRS )
WATER TABLE ( TIME OF BORING )
LABORATORY TEST LOCATION
PENETROMETER (TONS/ SQ. FT )
NR NO RECOVERY

Larson & Associates, Inc.
Environmental Consultants

DRILL DATE : 5/16/2022
BORING NUMBER : S-1

JOB NUMBER : Select Energy/ 21-0105-08
HOLE DIAMETER : 5"
LOCATION : Boo Radley Com 701H, 702H, 703H
LAI GEOLOGIST : D. St. Germain
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

# Appendix D

# Laboratory Reports

eurofins | Environment Testing America



# ANALYTICAL REPORT

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

Laboratory Job ID: 880-9573-1
Laboratory Sample Delivery Group: 21-0105-08
Client Project/Site: Boo Radley

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

Attn: Mr. Mark J Larson

Holly Taylor

*Authorized for release by:*
*12/29/2021 2:28:39 PM*

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-9573-1
SDG: 21-0105-08

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# Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-9573-1
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, 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, high biased. |
| *1 | LCS/LCSD RPD exceeds control limits. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

### HPLC/IC

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

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

# Definitions/Glossary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Glossary (Continued)

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

# Case Narrative

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Job ID: 880-9573-1

### Laboratory: Eurofins Xenco, Midland

**Narrative**

**Job Narrative**
**880-9573-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 12/21/2021 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -4.5º C.

**GC VOA**
Method 8021B: Surrogate recovery for the following samples were outside control limits: S-11,0.5' (880-9573-21), S-14,0.5' (880-9573-27) and S-16,1' (880-9573-32). 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: S-1,0.5' (880-9573-1), S-7,1' (880-9573-14) and S-8,0.5' (880-9573-15). 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 880-15272 and analytical batch 880-15228 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**
Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-15389 and analytical batch 880-15413 was outside the upper control limits.

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-15385 and analytical batch 880-15413 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

Method 8015B NM: The laboratory control sample (LCS) associated with preparation batch 880-15549 and analytical batch 880-15541 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.

**General Chemistry**
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-15261 and 880-15261 and analytical batch 880-15645 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

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

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-1,0.5'

**Date Collected: 12/20/21 12:50**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-1

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:42 | 1 |
| Toluene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:42 | 1 |
| Ethylbenzene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:42 | 1 |
| m,p-Xylenes | <0.00399 | U F1 | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:42 | 1 |
| o-Xylene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:42 | 1 |
| Xylenes, Total | <0.00399 | U F1 | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *137* | *S1+* | *70 - 130* | *12/21/21 14:20* | *12/22/21 00:42* | *1* |
| *1,4-Difluorobenzene (Surr)* | *122* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 00:42* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F1 F2 | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 12:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 12:06 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 12:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 12:06* | *1* |
| *o-Terphenyl (Surr)* | *114* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 12:06* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **4990** | | 24.9 | | mg/Kg | | | 12/28/21 11:23 | 5 |

## Client Sample ID: S-1,1'

**Date Collected: 12/20/21 12:52**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-2

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:02 | 1 |
| **Toluene** | **0.00208** | | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:02 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:02 | 1 |
| **m,p-Xylenes** | **0.00635** | | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:02 | 1 |
| **o-Xylene** | **0.00685** | | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:02 | 1 |
| **Xylenes, Total** | **0.0132** | | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *120* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 01:02* | *1* |
| *1,4-Difluorobenzene (Surr)* | *80* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 01:02* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-1,1'

**Date Collected: 12/20/21 12:52**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-2**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0153** | | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 13:23 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 13:23 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 13:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *108* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 13:23* | *1* |
| *o-Terphenyl (Surr)* | *120* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 13:23* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **2230** | | 24.8 | | mg/Kg | | | 12/28/21 11:33 | 5 |

## Client Sample ID: S-2,0.5'

**Date Collected: 12/20/21 13:04**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-3**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:23 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:23 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:23 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:23 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:23 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 01:23* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 01:23* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 13:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 13:42 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-2,0.5'

**Date Collected: 12/20/21 13:04**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-3

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 13:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 13:42* | *1* |
| *o-Terphenyl (Surr)* | *115* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 13:42* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **4830** | | 25.2 | | mg/Kg | | | 12/28/21 11:43 | 5 |

## Client Sample ID: S-2,1'

**Date Collected: 12/20/21 13:06**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-4

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:43 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:43 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:43 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:43 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:43 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 01:43* | *1* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 01:43* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *1 | 50.0 | | mg/Kg | | 12/22/21 14:29 | 12/24/21 02:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 14:29 | 12/24/21 02:38 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 14:29 | 12/24/21 02:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* | *12/22/21 14:29* | *12/24/21 02:38* | *1* |
| *o-Terphenyl (Surr)* | *121* | | *70 - 130* | *12/22/21 14:29* | *12/24/21 02:38* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **966** | | 4.99 | | mg/Kg | | | 12/28/21 12:12 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-3,0.5'

**Date Collected: 12/20/21 13:12**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-5

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:04 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:04 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:04 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:04 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:04 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 02:04* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 02:04* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 01:24 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 01:24 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 01:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *103* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 01:24* | *1* |
| *o-Terphenyl (Surr)* | *94* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 01:24* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3460** | | 24.9 | | mg/Kg | | | 12/28/21 12:22 | 5 |

## Client Sample ID: S-3,1'

**Date Collected: 12/20/21 13:14**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-6

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:24 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:24 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:24 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:24 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:24 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 02:24* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 02:24* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-3,1'
**Date Collected: 12/20/21 13:14**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-6
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **85.9** | | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 14:42 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **85.9** | | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 14:42 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 14:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *105* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 14:42* | *1* |
| *o-Terphenyl (Surr)* | *122* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 14:42* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **232** | | 4.95 | | mg/Kg | | | 12/28/21 12:32 | 1 |

## Client Sample ID: S-4,0.5'
**Date Collected: 12/20/21 13:25**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-7
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:45 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:45 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:45 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:45 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:45 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 02:45* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 02:45* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:02 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:02 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-4,0.5'
**Date Collected: 12/20/21 13:25**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-7
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *101* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 15:02* | *1* |
| *o-Terphenyl (Surr)* | *119* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 15:02* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **317** | | 5.01 | | mg/Kg | | | 12/28/21 12:42 | 1 |

## Client Sample ID: S-4,1'
**Date Collected: 12/20/21 13:27**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-8
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:05 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:05 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:05 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:05 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:05 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *118* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 03:05* | *1* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 03:05* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:22 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:22 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *96* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 15:22* | *1* |
| *o-Terphenyl (Surr)* | *114* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 15:22* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **281** | | 4.98 | | mg/Kg | | | 12/28/21 12:52 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-5,0.5'

**Date Collected: 12/20/21 13:35**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-9

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:26 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:26 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:26 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:26 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:26 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 03:26* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 03:26* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:42 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *116* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 15:42* | *1* |
| *o-Terphenyl (Surr)* | *139* | *S1+* | *70 - 130* | *12/22/21 15:41* | *12/23/21 15:42* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **5220** | | 25.0 | | mg/Kg | | | 12/28/21 13:01 | 5 |

## Client Sample ID: S-5,1'

**Date Collected: 12/20/21 13:37**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-10

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:46 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:46 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:46 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:46 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:46 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 03:46* | *1* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 03:46* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-5,1'
**Date Collected: 12/20/21 13:37**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-10
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 16:02 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 16:02 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 16:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *92* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 16:02* | *1* |
| *o-Terphenyl (Surr)* | *109* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 16:02* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **204** | | 5.02 | | mg/Kg | | | 12/28/21 13:31 | 1 |

## Client Sample ID: S-6,0.5'
**Date Collected: 12/20/21 13:45**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-11
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:10 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:10 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:10 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:10 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:10 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *119* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 05:10* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 05:10* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 16:41 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 16:41 | 1 |

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# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-6,0.5'

**Date Collected: 12/20/21 13:45**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-11

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 16:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *115* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 16:41* | *1* |
| *o-Terphenyl (Surr)* | *132* | *S1+* | *70 - 130* | *12/22/21 15:41* | *12/23/21 16:41* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **33.5** | | 4.98 | | mg/Kg | | | 12/28/21 13:41 | 1 |

## Client Sample ID: S-6,1'

**Date Collected: 12/20/21 13:47**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-12

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:30 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:30 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:30 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:30 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:30 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *124* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 05:30* | *1* |
| *1,4-Difluorobenzene (Surr)* | *79* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 05:30* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:01 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:01 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *101* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 17:01* | *1* |
| *o-Terphenyl (Surr)* | *120* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 17:01* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **17.2** | | 4.97 | | mg/Kg | | | 12/28/21 14:11 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-7,0.5'

**Date Collected: 12/20/21 13:55**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-13

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:51 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:51 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:51 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:51 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:51 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *133* | *S1+* | *70 - 130* | *12/21/21 14:20* | *12/22/21 05:51* | *1* |
| *1,4-Difluorobenzene (Surr)* | *80* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 05:51* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:21 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *115* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 17:21* | *1* |
| *o-Terphenyl (Surr)* | *138* | *S1+* | *70 - 130* | *12/22/21 15:41* | *12/23/21 17:21* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3900** | | 24.8 | | mg/Kg | | | 12/28/21 14:20 | 5 |

## Client Sample ID: S-7,1'

**Date Collected: 12/20/21 13:57**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-14

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:11 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:11 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:11 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:11 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:11 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *153* | *S1+* | *70 - 130* | *12/21/21 14:20* | *12/22/21 06:11* | *1* |
| *1,4-Difluorobenzene (Surr)* | *116* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 06:11* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-7,1'

**Date Collected: 12/20/21 13:57**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-14

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:41 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:41 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *118* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 17:41* | *1* |
| *o-Terphenyl (Surr)* | *137* | *S1+* | *70 - 130* | *12/22/21 15:41* | *12/23/21 17:41* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 3440 | | 24.8 | | mg/Kg | | | 12/28/21 14:30 | 5 |

## Client Sample ID: S-8,0.5'

**Date Collected: 12/20/21 14:10**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-15

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:32 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:32 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:32 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:32 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:32 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *134* | *S1+* | *70 - 130* | *12/21/21 14:20* | *12/22/21 06:32* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 06:32* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:00 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-8,0.5'
**Date Collected: 12/20/21 14:10**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-15
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *128* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 18:00* | *1* |
| *o-Terphenyl (Surr)* | *148* | *S1+* | *70 - 130* | *12/22/21 15:41* | *12/23/21 18:00* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3770** | | 25.0 | | mg/Kg | | | 12/28/21 14:40 | 5 |

## Client Sample ID: S-8,1'
**Date Collected: 12/20/21 14:12**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-16
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:52 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:52 | 1 |
| **Ethylbenzene** | **0.00272** | | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:52 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:52 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:52 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 06:52* | *1* |
| *1,4-Difluorobenzene (Surr)* | *85* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 06:52* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:20 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:20 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *121* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 18:20* | *1* |
| *o-Terphenyl (Surr)* | *141* | *S1+* | *70 - 130* | *12/22/21 15:41* | *12/23/21 18:20* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **2570** | | 25.0 | | mg/Kg | | | 12/28/21 14:50 | 5 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-9,0.5'
**Date Collected: 12/20/21 14:22**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-17
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:13 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:13 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:13 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:13 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:13 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 07:13* | *1* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 07:13* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:40 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:40 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *104* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 18:40* | *1* |
| *o-Terphenyl (Surr)* | *122* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 18:40* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **5930** | | 49.9 | | mg/Kg | | | 12/28/21 15:00 | 10 |

## Client Sample ID: S-9,1'
**Date Collected: 12/20/21 14:24**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-18
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:33 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:33 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:33 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:33 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:33 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *116* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 07:33* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 07:33* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-9,1'
**Date Collected: 12/20/21 14:24**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-18
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:00 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *107* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 19:00* | *1* |
| *o-Terphenyl (Surr)* | *124* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 19:00* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3580** | | 24.9 | | mg/Kg | | | 12/28/21 15:10 | 5 |

## Client Sample ID: S-10,0.5'
**Date Collected: 12/20/21 14:30**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-19
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:53 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:53 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:53 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:53 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:53 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *125* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 07:53* | *1* |
| *1,4-Difluorobenzene (Surr)* | *86* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 07:53* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:19 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:19 | 1 |

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# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-10,0.5'

**Date Collected: 12/20/21 14:30**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-19

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *97* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 19:19* | *1* |
| *o-Terphenyl (Surr)* | *107* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 19:19* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **25.5** | **F1** | 5.02 | | mg/Kg | | | 12/28/21 15:28 | 1 |

## Client Sample ID: S-10,1'

**Date Collected: 12/20/21 14:32**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-20

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 08:14 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 08:14 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 08:14 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 08:14 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 08:14 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 08:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 08:14* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 08:14* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:39 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:39 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *121* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 19:39* | *1* |
| *o-Terphenyl (Surr)* | *130* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 19:39* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **29.3** | | 5.05 | | mg/Kg | | | 12/28/21 17:08 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-11,0.5'

**Date Collected: 12/20/21 14:45**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-21

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:16 | 1 |
| **Toluene** | **0.00381** | | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:16 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:16 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:16 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:16 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *145* | *S1+* | *70 - 130* | *12/21/21 14:23* | *12/22/21 00:16* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 00:16* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 12/22/21 12:58 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 17:26 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 17:26 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 17:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *104* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 17:26* | *1* |
| *o-Terphenyl (Surr)* | *90* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 17:26* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **21.3** | | 4.97 | | mg/Kg | | | 12/28/21 17:20 | 1 |

## Client Sample ID: S-11,1'

**Date Collected: 12/20/21 14:47**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-22

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.00443** | | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:37 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:37 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:37 | 1 |
| **m,p-Xylenes** | **0.00416** | | 0.00399 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:37 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:37 | 1 |
| **Xylenes, Total** | **0.00416** | | 0.00399 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *121* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 00:37* | *1* |
| *1,4-Difluorobenzene (Surr)* | *84* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 00:37* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-11,1'
**Date Collected: 12/20/21 14:47**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-22
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00859** | | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 17:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 17:47 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 17:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *103* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 17:47* | *1* |
| *o-Terphenyl (Surr)* | *89* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 17:47* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.95 | U | 4.95 | | mg/Kg | | | 12/28/21 17:32 | 1 |

## Client Sample ID: S-12,0.5'
**Date Collected: 12/20/21 14:55**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-23
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.00199** | | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:57 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:57 | 1 |
| **Ethylbenzene** | **0.00734** | | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:57 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:57 | 1 |
| **o-Xylene** | **0.00341** | | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:57 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 00:57* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 00:57* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0127** | | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:08 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:08 | 1 |

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# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-12,0.5'
**Date Collected: 12/20/21 14:55**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-23
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *97* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 18:08* | *1* |
| *o-Terphenyl (Surr)* | *83* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 18:08* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.04 | U | 5.04 | | mg/Kg | | | 12/28/21 17:44 | 1 |

## Client Sample ID: S-12,1'
**Date Collected: 12/20/21 14:57**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-24
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:17 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:17 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:17 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:17 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:17 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *121* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 01:17* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 01:17* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:29 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:29 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *100* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 18:29* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 18:29* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.99 | U | 4.99 | | mg/Kg | | | 12/28/21 18:30 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-13,0.5'

**Date Collected: 12/20/21 15:05**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-25

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:38 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:38 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:38 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:38 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:38 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *127* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 01:38* | *1* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 01:38* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:50 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:50 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 18:50* | *1* |
| *o-Terphenyl (Surr)* | *90* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 18:50* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **15.0** | | 4.98 | | mg/Kg | | | 12/29/21 11:55 | 1 |

## Client Sample ID: S-13,1'

**Date Collected: 12/20/21 15:07**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-26

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:58 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:58 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:58 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:58 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:58 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *116* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 01:58* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 01:58* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-13,1'
**Date Collected: 12/20/21 15:07**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-26
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:11 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:11 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *103* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 19:11* | *1* |
| *o-Terphenyl (Surr)* | *91* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 19:11* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **6.35** | | 4.95 | | mg/Kg | | | 12/28/21 20:22 | 1 |

## Client Sample ID: S-14,0.5'
**Date Collected: 12/20/21 15:15**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-27
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:19 | 1 |
| **Toluene** | **0.00441** | | 0.00201 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:19 | 1 |
| **Ethylbenzene** | **0.00304** | | 0.00201 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:19 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:19 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:19 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *134* | *S1+* | *70 - 130* | *12/21/21 14:23* | *12/22/21 02:19* | *1* |
| *1,4-Difluorobenzene (Surr)* | *105* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 02:19* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00745** | | 0.00402 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:31 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:31 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-14,0.5'
**Date Collected: 12/20/21 15:15**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-27
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 19:31* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 19:31* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **9.26** | | 5.01 | | mg/Kg | | | 12/28/21 20:34 | 1 |

## Client Sample ID: S-14,1'
**Date Collected: 12/20/21 15:17**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-28
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:39 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:39 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:39 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:39 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:39 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 02:39* | *1* |
| *1,4-Difluorobenzene (Surr)* | *86* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 02:39* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:52 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:52 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 19:52* | *1* |
| *o-Terphenyl (Surr)* | *88* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 19:52* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **7.15** | | 4.98 | | mg/Kg | | | 12/28/21 20:46 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-15,0.5'

**Date Collected: 12/20/21 15:30**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-29

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:00 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:00 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:00 | 1 |
| **m,p-Xylenes** | **0.00403** | | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:00 | 1 |
| **o-Xylene** | **0.00786** | | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:00 | 1 |
| **Xylenes, Total** | **0.0119** | | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 03:00* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 03:00* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0119** | | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:00 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *95* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 00:00* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 00:00* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **78.2** | **F1** | 4.99 | | mg/Kg | | | 12/28/21 20:58 | 1 |

## Client Sample ID: S-15,1'

**Date Collected: 12/20/21 15:32**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-30

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:20 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:20 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:20 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:20 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:20 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *87* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 03:20* | *1* |
| *1,4-Difluorobenzene (Surr)* | *81* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 03:20* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-15,1'
**Date Collected: 12/20/21 15:32**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-30
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:21 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *107* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 00:21* | *1* |
| *o-Terphenyl (Surr)* | *95* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 00:21* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **43.9** | | 5.02 | | mg/Kg | | | 12/28/21 21:33 | 1 |

## Client Sample ID: S-16,0.5'
**Date Collected: 12/20/21 15:40**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-31
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.00278** | | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:10 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:10 | 1 |
| **Ethylbenzene** | **0.00312** | | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:10 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:10 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:10 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 05:10* | *1* |
| *1,4-Difluorobenzene (Surr)* | *89* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 05:10* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00590** | | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:42 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-16,0.5'
**Date Collected: 12/20/21 15:40**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-31
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *96* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 00:42* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 00:42* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.98 | U | 4.98 | | mg/Kg | | | 12/28/21 21:45 | 1 |

## Client Sample ID: S-16,1'
**Date Collected: 12/20/21 15:42**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-32
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:31 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:31 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:31 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:31 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:31 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *138* | *S1+* | *70 - 130* | *12/21/21 14:23* | *12/22/21 05:31* | *1* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 05:31* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 01:03 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 01:03 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 01:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *98* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 01:03* | *1* |
| *o-Terphenyl (Surr)* | *88* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 01:03* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.97 | U | 4.97 | | mg/Kg | | | 12/28/21 22:26 | 1 |

# Surrogate Summary

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

Job ID: 880-9573-1
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) |
| 880-9573-1 | S-1,0.5' | 137 S1+ | 122 |
| 880-9573-1 MS | S-1,0.5' | 110 | 107 |
| 880-9573-1 MSD | S-1,0.5' | 109 | 105 |
| 880-9573-2 | S-1,1' | 120 | 80 |
| 880-9573-3 | S-2,0.5' | 115 | 102 |
| 880-9573-4 | S-2,1' | 113 | 106 |
| 880-9573-5 | S-3,0.5' | 108 | 109 |
| 880-9573-6 | S-3,1' | 109 | 103 |
| 880-9573-7 | S-4,0.5' | 103 | 100 |
| 880-9573-8 | S-4,1' | 118 | 111 |
| 880-9573-9 | S-5,0.5' | 109 | 108 |
| 880-9573-10 | S-5,1' | 111 | 101 |
| 880-9573-11 | S-6,0.5' | 119 | 108 |
| 880-9573-12 | S-6,1' | 124 | 79 |
| 880-9573-13 | S-7,0.5' | 133 S1+ | 80 |
| 880-9573-14 | S-7,1' | 153 S1+ | 116 |
| 880-9573-15 | S-8,0.5' | 134 S1+ | 103 |
| 880-9573-16 | S-8,1' | 110 | 85 |
| 880-9573-17 | S-9,0.5' | 111 | 97 |
| 880-9573-18 | S-9,1' | 116 | 109 |
| 880-9573-19 | S-10,0.5' | 125 | 86 |
| 880-9573-20 | S-10,1' | 109 | 107 |
| 880-9573-21 | S-11,0.5' | 145 S1+ | 102 |
| 880-9573-21 MS | S-11,0.5' | 125 | 101 |
| 880-9573-21 MSD | S-11,0.5' | 112 | 98 |
| 880-9573-22 | S-11,1' | 121 | 84 |
| 880-9573-23 | S-12,0.5' | 123 | 99 |
| 880-9573-24 | S-12,1' | 121 | 109 |
| 880-9573-25 | S-13,0.5' | 127 | 111 |
| 880-9573-26 | S-13,1' | 116 | 93 |
| 880-9573-27 | S-14,0.5' | 134 S1+ | 105 |
| 880-9573-28 | S-14,1' | 111 | 86 |
| 880-9573-29 | S-15,0.5' | 115 | 103 |
| 880-9573-30 | S-15,1' | 87 | 81 |
| 880-9573-31 | S-16,0.5' | 115 | 89 |
| 880-9573-32 | S-16,1' | 138 S1+ | 96 |
| LCS 880-15272/1-A | Lab Control Sample | 97 | 106 |
| LCS 880-15273/1-A | Lab Control Sample | 113 | 103 |
| LCSD 880-15272/2-A | Lab Control Sample Dup | 104 | 85 |
| LCSD 880-15273/2-A | Lab Control Sample Dup | 110 | 96 |
| MB 880-15225/5-A | Method Blank | 125 | 105 |
| MB 880-15225/5-A | Method Blank | 115 | 104 |
| MB 880-15272/5-A | Method Blank | 100 | 104 |
| MB 880-15273/5-A | Method Blank | 121 | 93 |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

# Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-9573-1
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) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 880-9573-1 | S-1,0.5' | 102 | 114 |
| 880-9573-1 MS | S-1,0.5' | 102 | 100 |
| 880-9573-1 MSD | S-1,0.5' | 99 | 99 |
| 880-9573-2 | S-1,1' | 108 | 120 |
| 880-9573-3 | S-2,0.5' | 102 | 115 |
| 880-9573-4 | S-2,1' | 102 | 121 |
| 880-9573-5 | S-3,0.5' | 103 | 94 |
| 880-9573-6 | S-3,1' | 105 | 122 |
| 880-9573-7 | S-4,0.5' | 101 | 119 |
| 880-9573-8 | S-4,1' | 96 | 114 |
| 880-9573-9 | S-5,0.5' | 116 | 139 S1+ |
| 880-9573-10 | S-5,1' | 92 | 109 |
| 880-9573-11 | S-6,0.5' | 115 | 132 S1+ |
| 880-9573-12 | S-6,1' | 101 | 120 |
| 880-9573-13 | S-7,0.5' | 115 | 138 S1+ |
| 880-9573-14 | S-7,1' | 118 | 137 S1+ |
| 880-9573-15 | S-8,0.5' | 128 | 148 S1+ |
| 880-9573-16 | S-8,1' | 121 | 141 S1+ |
| 880-9573-17 | S-9,0.5' | 104 | 122 |
| 880-9573-18 | S-9,1' | 107 | 124 |
| 880-9573-19 | S-10,0.5' | 97 | 107 |
| 880-9573-20 | S-10,1' | 121 | 130 |
| 880-9573-21 | S-11,0.5' | 104 | 90 |
| 880-9573-22 | S-11,1' | 103 | 89 |
| 880-9573-23 | S-12,0.5' | 97 | 83 |
| 880-9573-24 | S-12,1' | 100 | 86 |
| 880-9573-25 | S-13,0.5' | 102 | 90 |
| 880-9573-26 | S-13,1' | 103 | 91 |
| 880-9573-27 | S-14,0.5' | 102 | 87 |
| 880-9573-28 | S-14,1' | 102 | 88 |
| 880-9573-29 | S-15,0.5' | 95 | 86 |
| 880-9573-30 | S-15,1' | 107 | 95 |
| 880-9573-31 | S-16,0.5' | 96 | 87 |
| 880-9573-32 | S-16,1' | 98 | 88 |
| 880-9652-A-1-F MS | Matrix Spike | 92 | 86 |
| 880-9652-A-1-G MSD | Matrix Spike Duplicate | 92 | 87 |
| 880-9681-A-1-D MS | Matrix Spike | 95 | 76 |
| 880-9681-A-1-E MSD | Matrix Spike Duplicate | 99 | 73 |
| 890-1740-A-1-D MS | Matrix Spike | 96 | 97 |
| 890-1740-A-1-E MSD | Matrix Spike Duplicate | 94 | 96 |
| LCS 880-15385/2-A | Lab Control Sample | 116 | 125 |
| LCS 880-15389/2-A | Lab Control Sample | 115 | 125 |
| LCSD 880-15385/3-A | Lab Control Sample Dup | 98 | 109 |
| LCSD 880-15389/3-A | Lab Control Sample Dup | 100 | 112 |
| MB 880-15385/1-A | Method Blank | 152 S1+ | 177 S1+ |
| MB 880-15389/1-A | Method Blank | 147 S1+ | 174 S1+ |

**Surrogate Legend**

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

# Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-9573-1
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) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO2 (70-130) | OTPH2 (70-130) |
| LCS 880-15481/2-A | Lab Control Sample | 112 | 110 |
| LCS 880-15549/2-A | Lab Control Sample | 112 | 87 |
| LCSD 880-15481/3-A | Lab Control Sample Dup | 130 | 129 |
| LCSD 880-15549/3-A | Lab Control Sample Dup | 113 | 100 |
| MB 880-15481/1-A | Method Blank | 122 | 119 |
| MB 880-15549/1-A | Method Blank | 98 | 89 |

**Surrogate Legend**

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

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: MB 880-15225/5-A**
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15225**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:28 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:28 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:28 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:28 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:28 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:28 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *12/21/21 07:13* | *12/21/21 10:28* | *1* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* | *12/21/21 07:13* | *12/21/21 10:28* | *1* |

**Lab Sample ID: MB 880-15225/5-A**
**Matrix: Solid**
**Analysis Batch: 15227**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15225**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:35 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:35 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:35 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:35 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:35 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:35 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *125* | | *70 - 130* | *12/21/21 07:13* | *12/21/21 10:35* | *1* |
| *1,4-Difluorobenzene (Surr)* | *105* | | *70 - 130* | *12/21/21 07:13* | *12/21/21 10:35* | *1* |

**Lab Sample ID: MB 880-15272/5-A**
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15272**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:20 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:20 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:20 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:20 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:20 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:20 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 00:20* | *1* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 00:20* | *1* |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

### Lab Sample ID: LCS 880-15272/1-A
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15272**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1076 | | mg/Kg | | 108 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09544 | | mg/Kg | | 95 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.08871 | | mg/Kg | | 89 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.1786 | | mg/Kg | | 89 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.09641 | | mg/Kg | | 96 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* |

### Lab Sample ID: LCSD 880-15272/2-A
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 15272**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1009 | | mg/Kg | | 101 | 70 - 130 | 6 | 35 |
| Toluene | | | 0.100 | 0.09505 | | mg/Kg | | 95 | 70 - 130 | 0 | 35 |
| Ethylbenzene | | | 0.100 | 0.08889 | | mg/Kg | | 89 | 70 - 130 | 0 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1842 | | mg/Kg | | 92 | 70 - 130 | 3 | 35 |
| o-Xylene | | | 0.100 | 0.09257 | | mg/Kg | | 93 | 70 - 130 | 4 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *85* | | *70 - 130* |

### Lab Sample ID: 880-9573-1 MS
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: S-1,0.5'**
**Prep Type: Total/NA**
**Prep Batch: 15272**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 | 0.0998 | 0.05600 | F1 | mg/Kg | | 56 | 70 - 130 | | |
| Toluene | <0.00200 | U F1 | 0.0998 | 0.05119 | F1 | mg/Kg | | 50 | 70 - 130 | | |
| Ethylbenzene | <0.00200 | U F1 | 0.0998 | 0.05120 | F1 | mg/Kg | | 51 | 70 - 130 | | |
| m,p-Xylenes | <0.00399 | U F1 | 0.200 | 0.1078 | F1 | mg/Kg | | 54 | 70 - 130 | | |
| o-Xylene | <0.00200 | U F1 | 0.0998 | 0.05958 | F1 | mg/Kg | | 60 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* |

### Lab Sample ID: 880-9573-1 MSD
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: S-1,0.5'**
**Prep Type: Total/NA**
**Prep Batch: 15272**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 | 0.0994 | 0.05780 | F1 | mg/Kg | | 58 | 70 - 130 | 3 | 35 |
| Toluene | <0.00200 | U F1 | 0.0994 | 0.04825 | F1 | mg/Kg | | 48 | 70 - 130 | 6 | 35 |
| Ethylbenzene | <0.00200 | U F1 | 0.0994 | 0.04899 | F1 | mg/Kg | | 49 | 70 - 130 | 4 | 35 |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: 880-9573-1 MSD**
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: S-1,0.5'**
**Prep Type: Total/NA**
**Prep Batch: 15272**

| 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 | 0.199 | 0.1006 | F1 | mg/Kg | | 51 | 70 - 130 | 7 | 35 |
| o-Xylene | <0.00200 | U F1 | 0.0994 | 0.05696 | F1 | mg/Kg | | 57 | 70 - 130 | 5 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *105* | | *70 - 130* |

**Lab Sample ID: MB 880-15273/5-A**
**Matrix: Solid**
**Analysis Batch: 15227**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15273**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/21/21 23:47 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/21/21 23:47 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/21/21 23:47 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 14:23 | 12/21/21 23:47 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/21/21 23:47 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 14:23 | 12/21/21 23:47 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *121* | | *70 - 130* | *12/21/21 14:23* | *12/21/21 23:47* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *12/21/21 14:23* | *12/21/21 23:47* | *1* |

**Lab Sample ID: LCS 880-15273/1-A**
**Matrix: Solid**
**Analysis Batch: 15227**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15273**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1036 | | mg/Kg | | 104 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.1036 | | mg/Kg | | 104 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1016 | | mg/Kg | | 102 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.1970 | | mg/Kg | | 99 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.09487 | | mg/Kg | | 95 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* |

**Lab Sample ID: LCSD 880-15273/2-A**
**Matrix: Solid**
**Analysis Batch: 15227**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 15273**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09550 | | mg/Kg | | 95 | 70 - 130 | 8 | 35 |
| Toluene | | | 0.100 | 0.1022 | | mg/Kg | | 102 | 70 - 130 | 1 | 35 |
| Ethylbenzene | | | 0.100 | 0.09699 | | mg/Kg | | 97 | 70 - 130 | 5 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1924 | | mg/Kg | | 96 | 70 - 130 | 2 | 35 |
| o-Xylene | | | 0.100 | 0.09144 | | mg/Kg | | 91 | 70 - 130 | 4 | 35 |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 |

**Lab Sample ID: 880-9573-21 MS** — **Client Sample ID: S-11,0.5'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 15227** — **Prep Batch: 15273**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.0998 | 0.08751 | | mg/Kg | | 86 | 70 - 130 |
| Toluene | 0.00381 | | 0.0998 | 0.08948 | | mg/Kg | | 86 | 70 - 130 |
| Ethylbenzene | <0.00202 | U | 0.0998 | 0.09245 | | mg/Kg | | 92 | 70 - 130 |
| m,p-Xylenes | <0.00403 | U | 0.200 | 0.1639 | | mg/Kg | | 81 | 70 - 130 |
| o-Xylene | <0.00202 | U | 0.0998 | 0.07809 | | mg/Kg | | 77 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 125 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 |

**Lab Sample ID: 880-9573-21 MSD** — **Client Sample ID: S-11,0.5'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 15227** — **Prep Batch: 15273**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.0994 | 0.07969 | | mg/Kg | | 79 | 70 - 130 | 9 | 35 |
| Toluene | 0.00381 | | 0.0994 | 0.07871 | | mg/Kg | | 75 | 70 - 130 | 13 | 35 |
| Ethylbenzene | <0.00202 | U | 0.0994 | 0.07587 | | mg/Kg | | 75 | 70 - 130 | 20 | 35 |
| m,p-Xylenes | <0.00403 | U | 0.199 | 0.1443 | | mg/Kg | | 71 | 70 - 130 | 13 | 35 |
| o-Xylene | <0.00202 | U | 0.0994 | 0.07490 | | mg/Kg | | 74 | 70 - 130 | 4 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 |

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

**Lab Sample ID: MB 880-15385/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 15413** — **Prep Batch: 15385**

| 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 | | 12/22/21 14:29 | 12/23/21 20:18 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 14:29 | 12/23/21 20:18 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 14:29 | 12/23/21 20:18 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane (Surr) | 152 | S1+ | 70 - 130 | 12/22/21 14:29 | 12/23/21 20:18 | 1 |
| o-Terphenyl (Surr) | 177 | S1+ | 70 - 130 | 12/22/21 14:29 | 12/23/21 20:18 | 1 |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: LCS 880-15385/2-A**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15385**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 869.0 | | mg/Kg | | 87 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 826.1 | | mg/Kg | | 83 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *116* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *125* | | *70 - 130* |

**Lab Sample ID: LCSD 880-15385/3-A**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 15385**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1239 | *1 | mg/Kg | | 124 | 70 - 130 | 35 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 776.5 | | mg/Kg | | 78 | 70 - 130 | 6 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *98* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *109* | | *70 - 130* |

**Lab Sample ID: 890-1740-A-1-D MS**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 15385**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *1 | 996 | 1249 | | mg/Kg | | 121 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 996 | 794.6 | | mg/Kg | | 75 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *96* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *97* | | *70 - 130* |

**Lab Sample ID: 890-1740-A-1-E MSD**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 15385**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *1 | 995 | 1226 | | mg/Kg | | 118 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 995 | 777.4 | | mg/Kg | | 74 | 70 - 130 | 2 | 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: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: 890-1740-A-1-E MSD**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 15385**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl (Surr) | 96 | | 70 - 130 |

**Lab Sample ID: MB 880-15389/1-A**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15389**

| 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 | | 12/22/21 15:41 | 12/23/21 11:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 11:06 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 11:06 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane (Surr) | 147 | S1+ | 70 - 130 | 12/22/21 15:41 | 12/23/21 11:06 | 1 |
| o-Terphenyl (Surr) | 174 | S1+ | 70 - 130 | 12/22/21 15:41 | 12/23/21 11:06 | 1 |

**Lab Sample ID: LCS 880-15389/2-A**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15389**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 861.3 | | mg/Kg | | 86 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 814.2 | | mg/Kg | | 81 | 70 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 115 | | 70 - 130 |
| o-Terphenyl (Surr) | 125 | | 70 - 130 |

**Lab Sample ID: LCSD 880-15389/3-A**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 15389**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 981.1 | | mg/Kg | | 98 | 70 - 130 | 13 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 741.9 | | mg/Kg | | 74 | 70 - 130 | 9 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 100 | | 70 - 130 |
| o-Terphenyl (Surr) | 112 | | 70 - 130 |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: 880-9573-1 MS**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: S-1,0.5'**
**Prep Type: Total/NA**
**Prep Batch: 15389**

| 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 | 996 | 2206 | F1 | mg/Kg | | 221 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 996 | 999.0 | | mg/Kg | | 100 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *100* | | *70 - 130* |

**Lab Sample ID: 880-9573-1 MSD**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: S-1,0.5'**
**Prep Type: Total/NA**
**Prep Batch: 15389**

| 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 | 995 | 1450 | F1 F2 | mg/Kg | | 146 | 70 - 130 | 41 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 995 | 961.6 | | mg/Kg | | 97 | 70 - 130 | 4 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *99* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *99* | | *70 - 130* |

**Lab Sample ID: MB 880-15481/1-A**
**Matrix: Solid**
**Analysis Batch: 15426**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15481**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 237.1 | | 50.0 | mg/Kg | | 12/23/21 14:53 | 12/24/21 16:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/23/21 14:53 | 12/24/21 16:42 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/23/21 14:53 | 12/24/21 16:42 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *122* | | *70 - 130* | *12/23/21 14:53* | *12/24/21 16:42* | *1* |
| *o-Terphenyl (Surr)* | *119* | | *70 - 130* | *12/23/21 14:53* | *12/24/21 16:42* | *1* |

**Lab Sample ID: LCS 880-15481/2-A**
**Matrix: Solid**
**Analysis Batch: 15426**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15481**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 872.6 | | mg/Kg | | 87 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 955.9 | | mg/Kg | | 96 | 70 - 130 |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: LCS 880-15481/2-A**
**Matrix: Solid**
**Analysis Batch: 15426**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15481**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 112 | | 70 - 130 |
| o-Terphenyl (Surr) | 110 | | 70 - 130 |

**Lab Sample ID: LCSD 880-15481/3-A**
**Matrix: Solid**
**Analysis Batch: 15426**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 15481**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 945.9 | | mg/Kg | | 95 | 70 - 130 | 8 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1054 | | mg/Kg | | 105 | 70 - 130 | 10 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 130 | | 70 - 130 |
| o-Terphenyl (Surr) | 129 | | 70 - 130 |

**Lab Sample ID: 880-9652-A-1-F MS**
**Matrix: Solid**
**Analysis Batch: 15426**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 15481**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 996 | 1030 | | mg/Kg | | 103 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 996 | 1238 | | mg/Kg | | 122 | 70 - 130 | | |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 92 | | 70 - 130 |
| o-Terphenyl (Surr) | 86 | | 70 - 130 |

**Lab Sample ID: 880-9652-A-1-G MSD**
**Matrix: Solid**
**Analysis Batch: 15426**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 15481**

| 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 | 995 | 1041 | | mg/Kg | | 105 | 70 - 130 | 1 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 995 | 1250 | | mg/Kg | | 123 | 70 - 130 | 1 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 92 | | 70 - 130 |
| o-Terphenyl (Surr) | 87 | | 70 - 130 |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: MB 880-15549/1-A**
**Matrix: Solid**
**Analysis Batch: 15541**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15549**

| 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 | | 12/27/21 08:39 | 12/27/21 11:53 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 11:53 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 11:53 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *98* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 11:53* | *1* |
| *o-Terphenyl (Surr)* | *89* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 11:53* | *1* |

**Lab Sample ID: LCS 880-15549/2-A**
**Matrix: Solid**
**Analysis Batch: 15541**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15549**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 2153 | *+ | mg/Kg | | 215 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 2161 | *+ | mg/Kg | | 216 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *112* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* |

**Lab Sample ID: LCSD 880-15549/3-A**
**Matrix: Solid**
**Analysis Batch: 15541**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 15549**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 2067 | *+ | mg/Kg | | 207 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 2182 | *+ | mg/Kg | | 218 | 70 - 130 | 1 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *113* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *100* | | *70 - 130* |

**Lab Sample ID: 880-9681-A-1-D MS**
**Matrix: Solid**
**Analysis Batch: 15541**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 15549**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 996 | 1018 | | mg/Kg | | 100 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | 555 | *+ | 996 | 1445 | | mg/Kg | | 89 | 70 - 130 | | |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: 880-9681-A-1-D MS**
**Matrix: Solid**
**Analysis Batch: 15541**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 15549**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 95 | | 70 - 130 |
| o-Terphenyl (Surr) | 76 | | 70 - 130 |

**Lab Sample ID: 880-9681-A-1-E MSD**
**Matrix: Solid**
**Analysis Batch: 15541**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 15549**

| 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 *+ | 995 | 1023 | | mg/Kg | | 101 | 70 - 130 | 1 | 20 |
| Diesel Range Organics (Over C10-C28) | 555 | *+ | 995 | 1394 | | mg/Kg | | 84 | 70 - 130 | 4 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 99 | | 70 - 130 |
| o-Terphenyl (Surr) | 73 | | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-15245/1-A**
**Matrix: Solid**
**Analysis Batch: 15627**

**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 | | | 12/28/21 10:14 | 1 |

**Lab Sample ID: LCS 880-15245/2-A**
**Matrix: Solid**
**Analysis Batch: 15627**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 245.7 | | mg/Kg | | 98 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-15245/3-A**
**Matrix: Solid**
**Analysis Batch: 15627**

**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 | 247.2 | | mg/Kg | | 99 | 90 - 110 | 1 | 20 |

**Lab Sample ID: 880-9573-9 MS**
**Matrix: Solid**
**Analysis Batch: 15627**

**Client Sample ID: S-5,0.5'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 5220 | | 1250 | 6547 | 4 | mg/Kg | | 106 | 90 - 110 | | |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 880-9573-9 MSD** — **Client Sample ID: S-5,0.5'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15627**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 5220 | | 1250 | 6440 | 4 | mg/Kg | | 98 | 90 - 110 | 2 | 20 |

**Lab Sample ID: MB 880-15261/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 12/28/21 12:36 | 1 |

**Lab Sample ID: LCS 880-15261/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 258.6 | | mg/Kg | | 103 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-15261/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 268.9 | | mg/Kg | | 108 | 90 - 110 | 4 | 20 |

**Lab Sample ID: 880-9573-19 MS** — **Client Sample ID: S-10,0.5'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 25.5 | F1 | 251 | 303.8 | F1 | mg/Kg | | 111 | 90 - 110 | | |

**Lab Sample ID: 880-9573-19 MSD** — **Client Sample ID: S-10,0.5'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 25.5 | F1 | 251 | 303.4 | F1 | mg/Kg | | 111 | 90 - 110 | 0 | 20 |

**Lab Sample ID: 880-9573-29 MS** — **Client Sample ID: S-15,0.5'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 78.2 | F1 | 250 | 386.6 | F1 | mg/Kg | | 124 | 90 - 110 | | |

**Lab Sample ID: 880-9573-29 MSD** — **Client Sample ID: S-15,0.5'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 78.2 | F1 | 250 | 388.1 | F1 | mg/Kg | | 124 | 90 - 110 | 0 | 20 |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## GC VOA

### Prep Batch: 15225

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-15225/5-A | Method Blank | Total/NA | Solid | 5035 | |

### Analysis Batch: 15227

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-21 | S-11,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-22 | S-11,1' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-23 | S-12,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-24 | S-12,1' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-25 | S-13,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-26 | S-13,1' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-27 | S-14,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-28 | S-14,1' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-29 | S-15,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-30 | S-15,1' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-31 | S-16,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-32 | S-16,1' | Total/NA | Solid | 8021B | 15273 |
| MB 880-15225/5-A | Method Blank | Total/NA | Solid | 8021B | 15225 |
| MB 880-15273/5-A | Method Blank | Total/NA | Solid | 8021B | 15273 |
| LCS 880-15273/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 15273 |
| LCSD 880-15273/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 15273 |
| 880-9573-21 MS | S-11,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-21 MSD | S-11,0.5' | Total/NA | Solid | 8021B | 15273 |

### Analysis Batch: 15228

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-2 | S-1,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-3 | S-2,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-4 | S-2,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-5 | S-3,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-6 | S-3,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-7 | S-4,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-8 | S-4,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-9 | S-5,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-10 | S-5,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-11 | S-6,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-12 | S-6,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-13 | S-7,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-14 | S-7,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-15 | S-8,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-16 | S-8,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-17 | S-9,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-18 | S-9,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-19 | S-10,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-20 | S-10,1' | Total/NA | Solid | 8021B | 15272 |
| MB 880-15225/5-A | Method Blank | Total/NA | Solid | 8021B | 15225 |
| MB 880-15272/5-A | Method Blank | Total/NA | Solid | 8021B | 15272 |
| LCS 880-15272/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 15272 |
| LCSD 880-15272/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 15272 |
| 880-9573-1 MS | S-1,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-1 MSD | S-1,0.5' | Total/NA | Solid | 8021B | 15272 |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## GC VOA

### Prep Batch: 15272

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-2 | S-1,1' | Total/NA | Solid | 5035 | |
| 880-9573-3 | S-2,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-4 | S-2,1' | Total/NA | Solid | 5035 | |
| 880-9573-5 | S-3,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-6 | S-3,1' | Total/NA | Solid | 5035 | |
| 880-9573-7 | S-4,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-8 | S-4,1' | Total/NA | Solid | 5035 | |
| 880-9573-9 | S-5,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-10 | S-5,1' | Total/NA | Solid | 5035 | |
| 880-9573-11 | S-6,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-12 | S-6,1' | Total/NA | Solid | 5035 | |
| 880-9573-13 | S-7,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-14 | S-7,1' | Total/NA | Solid | 5035 | |
| 880-9573-15 | S-8,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-16 | S-8,1' | Total/NA | Solid | 5035 | |
| 880-9573-17 | S-9,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-18 | S-9,1' | Total/NA | Solid | 5035 | |
| 880-9573-19 | S-10,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-20 | S-10,1' | Total/NA | Solid | 5035 | |
| MB 880-15272/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-15272/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-15272/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-9573-1 MS | S-1,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-1 MSD | S-1,0.5' | Total/NA | Solid | 5035 | |

### Prep Batch: 15273

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-21 | S-11,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-22 | S-11,1' | Total/NA | Solid | 5035 | |
| 880-9573-23 | S-12,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-24 | S-12,1' | Total/NA | Solid | 5035 | |
| 880-9573-25 | S-13,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-26 | S-13,1' | Total/NA | Solid | 5035 | |
| 880-9573-27 | S-14,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-28 | S-14,1' | Total/NA | Solid | 5035 | |
| 880-9573-29 | S-15,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-30 | S-15,1' | Total/NA | Solid | 5035 | |
| 880-9573-31 | S-16,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-32 | S-16,1' | Total/NA | Solid | 5035 | |
| MB 880-15273/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-15273/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-15273/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-9573-21 MS | S-11,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-21 MSD | S-11,0.5' | Total/NA | Solid | 5035 | |

### Analysis Batch: 15381

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-21 | S-11,0.5' | Total/NA | Solid | Total BTEX | |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## GC VOA

### Analysis Batch: 15716

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-2 | S-1,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-3 | S-2,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-4 | S-2,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-5 | S-3,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-6 | S-3,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-7 | S-4,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-8 | S-4,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-9 | S-5,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-10 | S-5,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-11 | S-6,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-12 | S-6,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-13 | S-7,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-14 | S-7,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-15 | S-8,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-16 | S-8,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-17 | S-9,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-18 | S-9,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-19 | S-10,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-20 | S-10,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-22 | S-11,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-23 | S-12,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-24 | S-12,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-25 | S-13,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-26 | S-13,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-27 | S-14,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-28 | S-14,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-29 | S-15,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-30 | S-15,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-31 | S-16,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-32 | S-16,1' | Total/NA | Solid | Total BTEX | |

## GC Semi VOA

### Prep Batch: 15385

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-4 | S-2,1' | Total/NA | Solid | 8015NM Prep | |
| MB 880-15385/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-15385/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-15385/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1740-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-1740-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

### Prep Batch: 15389

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-2 | S-1,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-3 | S-2,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-6 | S-3,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-7 | S-4,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-8 | S-4,1' | Total/NA | Solid | 8015NM Prep | |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## GC Semi VOA (Continued)

### Prep Batch: 15389 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-9 | S-5,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-10 | S-5,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-11 | S-6,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-12 | S-6,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-13 | S-7,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-14 | S-7,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-15 | S-8,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-16 | S-8,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-17 | S-9,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-18 | S-9,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-19 | S-10,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-20 | S-10,1' | Total/NA | Solid | 8015NM Prep | |
| MB 880-15389/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-15389/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-15389/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-9573-1 MS | S-1,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-1 MSD | S-1,0.5' | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 15413

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-2 | S-1,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-3 | S-2,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-4 | S-2,1' | Total/NA | Solid | 8015B NM | 15385 |
| 880-9573-6 | S-3,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-7 | S-4,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-8 | S-4,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-9 | S-5,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-10 | S-5,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-11 | S-6,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-12 | S-6,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-13 | S-7,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-14 | S-7,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-15 | S-8,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-16 | S-8,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-17 | S-9,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-18 | S-9,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-19 | S-10,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-20 | S-10,1' | Total/NA | Solid | 8015B NM | 15389 |
| MB 880-15385/1-A | Method Blank | Total/NA | Solid | 8015B NM | 15385 |
| MB 880-15389/1-A | Method Blank | Total/NA | Solid | 8015B NM | 15389 |
| LCS 880-15385/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 15385 |
| LCS 880-15389/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 15389 |
| LCSD 880-15385/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 15385 |
| LCSD 880-15389/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-1 MS | S-1,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-1 MSD | S-1,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 890-1740-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015B NM | 15385 |
| 890-1740-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 15385 |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## GC Semi VOA

### Analysis Batch: 15426

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-5 | S-3,0.5' | Total/NA | Solid | 8015B NM | 15481 |
| 880-9573-29 | S-15,0.5' | Total/NA | Solid | 8015B NM | 15481 |
| 880-9573-30 | S-15,1' | Total/NA | Solid | 8015B NM | 15481 |
| 880-9573-31 | S-16,0.5' | Total/NA | Solid | 8015B NM | 15481 |
| 880-9573-32 | S-16,1' | Total/NA | Solid | 8015B NM | 15481 |
| MB 880-15481/1-A | Method Blank | Total/NA | Solid | 8015B NM | 15481 |
| LCS 880-15481/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 15481 |
| LCSD 880-15481/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 15481 |
| 880-9652-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 15481 |
| 880-9652-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 15481 |

### Prep Batch: 15481

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-5 | S-3,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-29 | S-15,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-30 | S-15,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-31 | S-16,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-32 | S-16,1' | Total/NA | Solid | 8015NM Prep | |
| MB 880-15481/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-15481/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-15481/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-9652-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-9652-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 15541

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-21 | S-11,0.5' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-22 | S-11,1' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-23 | S-12,0.5' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-24 | S-12,1' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-25 | S-13,0.5' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-26 | S-13,1' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-27 | S-14,0.5' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-28 | S-14,1' | Total/NA | Solid | 8015B NM | 15549 |
| MB 880-15549/1-A | Method Blank | Total/NA | Solid | 8015B NM | 15549 |
| LCS 880-15549/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 15549 |
| LCSD 880-15549/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 15549 |
| 880-9681-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015B NM | 15549 |
| 880-9681-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 15549 |

### Prep Batch: 15549

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-21 | S-11,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-22 | S-11,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-23 | S-12,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-24 | S-12,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-25 | S-13,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-26 | S-13,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-27 | S-14,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-28 | S-14,1' | Total/NA | Solid | 8015NM Prep | |
| MB 880-15549/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## GC Semi VOA (Continued)

### Prep Batch: 15549 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 880-15549/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-15549/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-9681-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-9681-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 15715

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-2 | S-1,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-3 | S-2,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-4 | S-2,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-5 | S-3,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-6 | S-3,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-7 | S-4,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-8 | S-4,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-9 | S-5,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-10 | S-5,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-11 | S-6,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-12 | S-6,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-13 | S-7,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-14 | S-7,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-15 | S-8,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-16 | S-8,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-17 | S-9,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-18 | S-9,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-19 | S-10,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-20 | S-10,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-21 | S-11,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-22 | S-11,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-23 | S-12,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-24 | S-12,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-25 | S-13,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-26 | S-13,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-27 | S-14,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-28 | S-14,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-29 | S-15,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-30 | S-15,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-31 | S-16,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-32 | S-16,1' | Total/NA | Solid | 8015 NM | |

## HPLC/IC

### Leach Batch: 15245

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-2 | S-1,1' | Soluble | Solid | DI Leach | |
| 880-9573-3 | S-2,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-4 | S-2,1' | Soluble | Solid | DI Leach | |
| 880-9573-5 | S-3,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-6 | S-3,1' | Soluble | Solid | DI Leach | |
| 880-9573-7 | S-4,0.5' | Soluble | Solid | DI Leach | |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Leach Batch: 15245 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-8 | S-4,1' | Soluble | Solid | DI Leach | |
| 880-9573-9 | S-5,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-10 | S-5,1' | Soluble | Solid | DI Leach | |
| 880-9573-11 | S-6,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-12 | S-6,1' | Soluble | Solid | DI Leach | |
| 880-9573-13 | S-7,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-14 | S-7,1' | Soluble | Solid | DI Leach | |
| 880-9573-15 | S-8,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-16 | S-8,1' | Soluble | Solid | DI Leach | |
| 880-9573-17 | S-9,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-18 | S-9,1' | Soluble | Solid | DI Leach | |
| MB 880-15245/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-15245/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-15245/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-9573-9 MS | S-5,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-9 MSD | S-5,0.5' | Soluble | Solid | DI Leach | |

### Leach Batch: 15261

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-19 | S-10,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-20 | S-10,1' | Soluble | Solid | DI Leach | |
| 880-9573-21 | S-11,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-22 | S-11,1' | Soluble | Solid | DI Leach | |
| 880-9573-23 | S-12,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-24 | S-12,1' | Soluble | Solid | DI Leach | |
| 880-9573-25 | S-13,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-26 | S-13,1' | Soluble | Solid | DI Leach | |
| 880-9573-27 | S-14,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-28 | S-14,1' | Soluble | Solid | DI Leach | |
| 880-9573-29 | S-15,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-30 | S-15,1' | Soluble | Solid | DI Leach | |
| 880-9573-31 | S-16,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-32 | S-16,1' | Soluble | Solid | DI Leach | |
| MB 880-15261/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-15261/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-15261/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-9573-19 MS | S-10,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-19 MSD | S-10,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-29 MS | S-15,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-29 MSD | S-15,0.5' | Soluble | Solid | DI Leach | |

### Analysis Batch: 15627

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-2 | S-1,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-3 | S-2,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-4 | S-2,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-5 | S-3,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-6 | S-3,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-7 | S-4,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-8 | S-4,1' | Soluble | Solid | 300.0 | 15245 |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Analysis Batch: 15627 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-9 | S-5,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-10 | S-5,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-11 | S-6,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-12 | S-6,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-13 | S-7,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-14 | S-7,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-15 | S-8,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-16 | S-8,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-17 | S-9,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-18 | S-9,1' | Soluble | Solid | 300.0 | 15245 |
| MB 880-15245/1-A | Method Blank | Soluble | Solid | 300.0 | 15245 |
| LCS 880-15245/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 15245 |
| LCSD 880-15245/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 15245 |
| 880-9573-9 MS | S-5,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-9 MSD | S-5,0.5' | Soluble | Solid | 300.0 | 15245 |

### Analysis Batch: 15645

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-19 | S-10,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-20 | S-10,1' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-21 | S-11,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-22 | S-11,1' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-23 | S-12,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-24 | S-12,1' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-25 | S-13,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-26 | S-13,1' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-27 | S-14,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-28 | S-14,1' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-29 | S-15,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-30 | S-15,1' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-31 | S-16,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-32 | S-16,1' | Soluble | Solid | 300.0 | 15261 |
| MB 880-15261/1-A | Method Blank | Soluble | Solid | 300.0 | 15261 |
| LCS 880-15261/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 15261 |
| LCSD 880-15261/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 15261 |
| 880-9573-19 MS | S-10,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-19 MSD | S-10,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-29 MS | S-15,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-29 MSD | S-15,0.5' | Soluble | Solid | 300.0 | 15261 |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-1,0.5'
**Date Collected: 12/20/21 12:50**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-1
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 00:42 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 12:06 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 11:23 | CH | XEN MID |

## Client Sample ID: S-1,1'
**Date Collected: 12/20/21 12:52**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-2
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 01:02 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 13:23 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 11:33 | CH | XEN MID |

## Client Sample ID: S-2,0.5'
**Date Collected: 12/20/21 13:04**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-3
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 01:23 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 13:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 11:43 | CH | XEN MID |

## Client Sample ID: S-2,1'
**Date Collected: 12/20/21 13:06**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-4
**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 | | | 5.03 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 01:43 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-2,1'
**Date Collected: 12/20/21 13:06**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-4**
**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 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15385 | 12/22/21 14:29 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/24/21 02:38 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 12:12 | CH | XEN MID |

## Client Sample ID: S-3,0.5'
**Date Collected: 12/20/21 13:12**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-5**
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 02:04 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15481 | 12/23/21 14:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15426 | 12/25/21 01:24 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 12:22 | CH | XEN MID |

## Client Sample ID: S-3,1'
**Date Collected: 12/20/21 13:14**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-6**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 02:24 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 14:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 12:32 | CH | XEN MID |

## Client Sample ID: S-4,0.5'
**Date Collected: 12/20/21 13:25**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-7**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 02:45 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 15:02 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-4,0.5'
**Date Collected: 12/20/21 13:25**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-7**
**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 | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 12:42 | CH | XEN MID |

## Client Sample ID: S-4,1'
**Date Collected: 12/20/21 13:27**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-8**
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 03:05 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 15:22 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 12:52 | CH | XEN MID |

## Client Sample ID: S-5,0.5'
**Date Collected: 12/20/21 13:35**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-9**
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 03:26 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 15:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 13:01 | CH | XEN MID |

## Client Sample ID: S-5,1'
**Date Collected: 12/20/21 13:37**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-10**
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 03:46 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 16:02 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 13:31 | CH | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-6,0.5'
**Date Collected: 12/20/21 13:45**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-11
**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 | | | 4.96 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 05:10 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 16:41 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 13:41 | CH | XEN MID |

## Client Sample ID: S-6,1'
**Date Collected: 12/20/21 13:47**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-12
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 05:30 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 17:01 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 14:11 | CH | XEN MID |

## Client Sample ID: S-7,0.5'
**Date Collected: 12/20/21 13:55**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-13
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 05:51 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 17:21 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 14:20 | CH | XEN MID |

## Client Sample ID: S-7,1'
**Date Collected: 12/20/21 13:57**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-14
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 06:11 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-7,1'
**Date Collected: 12/20/21 13:57**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-14**
**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 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 17:41 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 14:30 | CH | XEN MID |

## Client Sample ID: S-8,0.5'
**Date Collected: 12/20/21 14:10**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-15**
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 06:32 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 18:00 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 14:40 | CH | XEN MID |

## Client Sample ID: S-8,1'
**Date Collected: 12/20/21 14:12**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-16**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 06:52 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 18:20 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 14:50 | CH | XEN MID |

## Client Sample ID: S-9,0.5'
**Date Collected: 12/20/21 14:22**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-17**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 07:13 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 18:40 | AJ | XEN MID |

Eurofins Xenco, Midland

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-9,0.5'
**Date Collected: 12/20/21 14:22**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-17**
**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 | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 15627 | 12/28/21 15:00 | CH | XEN MID |

## Client Sample ID: S-9,1'
**Date Collected: 12/20/21 14:24**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-18**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 07:33 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 19:00 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 15:10 | CH | XEN MID |

## Client Sample ID: S-10,0.5'
**Date Collected: 12/20/21 14:30**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-19**
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 07:53 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 19:19 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 15:28 | CH | XEN MID |

## Client Sample ID: S-10,1'
**Date Collected: 12/20/21 14:32**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-20**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 08:14 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 19:39 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 17:08 | CH | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-11,0.5'
**Date Collected: 12/20/21 14:45**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-21
**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 | | | 4.96 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 00:16 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15381 | 12/22/21 12:58 | MR | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 17:26 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 17:20 | CH | XEN MID |

## Client Sample ID: S-11,1'
**Date Collected: 12/20/21 14:47**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-22
**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 | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 00:37 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 17:47 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 17:32 | CH | XEN MID |

## Client Sample ID: S-12,0.5'
**Date Collected: 12/20/21 14:55**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-23
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 00:57 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 18:08 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 17:44 | CH | XEN MID |

## Client Sample ID: S-12,1'
**Date Collected: 12/20/21 14:57**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-24
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 01:17 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |

Eurofins Xenco, Midland

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-12,1'
**Date Collected: 12/20/21 14:57**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-24**
**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 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 18:29 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 18:30 | CH | XEN MID |

## Client Sample ID: S-13,0.5'
**Date Collected: 12/20/21 15:05**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-25**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 01:38 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 18:50 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/29/21 11:55 | CH | XEN MID |

## Client Sample ID: S-13,1'
**Date Collected: 12/20/21 15:07**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-26**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 01:58 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 19:11 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 20:22 | CH | XEN MID |

## Client Sample ID: S-14,0.5'
**Date Collected: 12/20/21 15:15**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-27**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 02:19 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 19:31 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-14,0.5'
**Date Collected: 12/20/21 15:15**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-27
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 20:34 | CH | XEN MID |

## Client Sample ID: S-14,1'
**Date Collected: 12/20/21 15:17**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-28
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 02:39 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 19:52 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 20:46 | CH | XEN MID |

## Client Sample ID: S-15,0.5'
**Date Collected: 12/20/21 15:30**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-29
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 03:00 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15481 | 12/23/21 14:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15426 | 12/25/21 00:00 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 20:58 | CH | XEN MID |

## Client Sample ID: S-15,1'
**Date Collected: 12/20/21 15:32**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-30
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 03:20 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15481 | 12/23/21 14:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15426 | 12/25/21 00:21 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 21:33 | CH | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-16,0.5'

**Date Collected: 12/20/21 15:40**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-31

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 05:10 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15481 | 12/23/21 14:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15426 | 12/25/21 00:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 21:45 | CH | XEN MID |

## Client Sample ID: S-16,1'

**Date Collected: 12/20/21 15:42**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-32

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 05:31 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15481 | 12/23/21 14:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15426 | 12/25/21 01:03 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15645 | 12/28/21 22:26 | CH | XEN MID |

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-9573-1
Project/Site: Boo Radley SDG: 21-0105-08

## Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Texas | NELAP | T104704400-21-22 | 06-30-22 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

# Method Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

# Sample Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Solid | 12/20/21 12:50 | 12/21/21 09:20 |
| 880-9573-2 | S-1,1' | Solid | 12/20/21 12:52 | 12/21/21 09:20 |
| 880-9573-3 | S-2,0.5' | Solid | 12/20/21 13:04 | 12/21/21 09:20 |
| 880-9573-4 | S-2,1' | Solid | 12/20/21 13:06 | 12/21/21 09:20 |
| 880-9573-5 | S-3,0.5' | Solid | 12/20/21 13:12 | 12/21/21 09:20 |
| 880-9573-6 | S-3,1' | Solid | 12/20/21 13:14 | 12/21/21 09:20 |
| 880-9573-7 | S-4,0.5' | Solid | 12/20/21 13:25 | 12/21/21 09:20 |
| 880-9573-8 | S-4,1' | Solid | 12/20/21 13:27 | 12/21/21 09:20 |
| 880-9573-9 | S-5,0.5' | Solid | 12/20/21 13:35 | 12/21/21 09:20 |
| 880-9573-10 | S-5,1' | Solid | 12/20/21 13:37 | 12/21/21 09:20 |
| 880-9573-11 | S-6,0.5' | Solid | 12/20/21 13:45 | 12/21/21 09:20 |
| 880-9573-12 | S-6,1' | Solid | 12/20/21 13:47 | 12/21/21 09:20 |
| 880-9573-13 | S-7,0.5' | Solid | 12/20/21 13:55 | 12/21/21 09:20 |
| 880-9573-14 | S-7,1' | Solid | 12/20/21 13:57 | 12/21/21 09:20 |
| 880-9573-15 | S-8,0.5' | Solid | 12/20/21 14:10 | 12/21/21 09:20 |
| 880-9573-16 | S-8,1' | Solid | 12/20/21 14:12 | 12/21/21 09:20 |
| 880-9573-17 | S-9,0.5' | Solid | 12/20/21 14:22 | 12/21/21 09:20 |
| 880-9573-18 | S-9,1' | Solid | 12/20/21 14:24 | 12/21/21 09:20 |
| 880-9573-19 | S-10,0.5' | Solid | 12/20/21 14:30 | 12/21/21 09:20 |
| 880-9573-20 | S-10,1' | Solid | 12/20/21 14:32 | 12/21/21 09:20 |
| 880-9573-21 | S-11,0.5' | Solid | 12/20/21 14:45 | 12/21/21 09:20 |
| 880-9573-22 | S-11,1' | Solid | 12/20/21 14:47 | 12/21/21 09:20 |
| 880-9573-23 | S-12,0.5' | Solid | 12/20/21 14:55 | 12/21/21 09:20 |
| 880-9573-24 | S-12,1' | Solid | 12/20/21 14:57 | 12/21/21 09:20 |
| 880-9573-25 | S-13,0.5' | Solid | 12/20/21 15:05 | 12/21/21 09:20 |
| 880-9573-26 | S-13,1' | Solid | 12/20/21 15:07 | 12/21/21 09:20 |
| 880-9573-27 | S-14,0.5' | Solid | 12/20/21 15:15 | 12/21/21 09:20 |
| 880-9573-28 | S-14,1' | Solid | 12/20/21 15:17 | 12/21/21 09:20 |
| 880-9573-29 | S-15,0.5' | Solid | 12/20/21 15:30 | 12/21/21 09:20 |
| 880-9573-30 | S-15,1' | Solid | 12/20/21 15:32 | 12/21/21 09:20 |
| 880-9573-31 | S-16,0.5' | Solid | 12/20/21 15:40 | 12/21/21 09:20 |
| 880-9573-32 | S-16,1' | Solid | 12/20/21 15:42 | 12/21/21 09:20 |

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No. 2295

# CHAIN-OF-CUSTODY

12/29/2021

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

DATE 12/21/2021 PAGE 1 OF 3

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR JR

Data Reported to

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MST/NM

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ NaOH | ICE | UNPRESSERVED | ANALYSES: BTEX 8021 MTBE | TRPH 418.1 | TPH 1005 | TPH 1006 | GASOLINE MOD 8015 | DIESEL MOD 8015 | OIL - MOD 8015 | VOC 8260 | SVOC 8270 | PAH 8270 | HOLDPAH | 8081 PESTICIDES | 8151 HERBICIDES | 8082 PCBS | TCLP - METALS (RCRA) | TCLP VOC | TCLP PEST | HERB | Semi-VOC | TOTAL METALS (RCRA) | OTHER LIST | LEAD - TOTAL | D W 200.8 | TCLP | RCI | TOX | FLASHPOINT | TDS | TSS | % MOISTURE | pH | HEXAVALENT CHROMIUM | CYANIDE | EXPLOSIVES | PECHLORATE | CHLORIDES | ANIONS | ALKALINITY | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1, 0.5' | | 12/20/21 | 1250 | S | 1 | | | | X | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 202 |
| S-1, 1' | | | 1252 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-2, 0.5' | | | 1304 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-2, 1' | | | 1306 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-3, 0.5' | | | 1312 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-3, 1' | | | 1314 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-4, 0.5' | | | 1325 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-4, 1' | | | 1327 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-5, 0.5' | | | 1335 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-5, 1' | | | 1337 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-6, 0.5' | | | 1345 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-6, 1' | | | 1347 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-7, 0.5' | | | 1355 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-7, 1' | | | 1357 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-8, 0.5' | | | 1410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

880-9573 Chain of Custody

| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) |
|---|---|---|
| | 12/21/21 0920 | |
| 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 4.4/4.5 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

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No. 2296

# CHAIN-OF-CUSTODY

12/29/2021

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

Data Reported to

DATE 12/21/2021 PAGE 2 OF 3

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR DR

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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

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

ANALYSES: BTEX 8021 MTBE | TRPH 418.1 | TPH 1005 | TPH 1006 | GASOLINE MOD 8015 | DIESEL MOD 8015 | OIL - MOD 8015 | VOC 8260 | SVOC 8270 | PAH 8270 | HOLDPAH | 8081 PESTICIDES | 8151 HERBICIDES | 8082 PCBS | TCLP - METALS (RCRA) | TCLP VOC | TCLP - PEST | HERB | TOTAL METALS (RCRA) | Semi-VOC | LEAD - TOTAL | OTHER LIST | RCI | TOX | DW 200.8 | TCLP | TDS | TSS | FLASHPOINT | % 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-8, 1' | | 12/20/21 | 1412 | S | 1 | | | | | X | | X BTEX, TPH 1005, TPH 1006, GASOLINE MOD 8015, DIESEL MOD 8015, OIL - MOD 8015 | 202 |
| S-9, 0.5' | | | 1422 | | | | | | | | | | |
| S-9, 1' | | | 1424 | | | | | | | | | | |
| S-10, 0.5' | | | 1430 | | | | | | | | | | |
| S-10, 1' | | | 1432 | | | | | | | | | | |
| S-11, 0.5' | | | 1445 | | | | | | | | | | |
| S-11, 1' | | | 1447 | | | | | | | | | | |
| S-12, 0.5' | | | 1455 | | | | | | | | | | |
| S-12, 1' | | | 1457 | | | | | | | | | | |
| S-13, 0.5' | | | 1505 | | | | | | | | | | |
| S-13, 1' | | | 1507 | | | | | | | | | | |
| S-14, 0.5' | | | 1515 | | | | | | | | | | |
| S-14, 1' | | | 1517 | | | | | | | | | | |
| S-15, 0.5' | | | 1530 | | | | | | | | | | |
| S-15, 1' | | | 1532 | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) DATE/TIME 12/21/21 0920 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/-4.5 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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Received by OCD: 7/11/2022 1:07:29 PM

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No. 2297

# CHAIN-OF-CUSTODY

12/29/2021

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

Data Reported to

DATE 12/21/2021 PAGE 3 OF 3

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR TR

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ / NaOH | ICE | UNPRESSERVED | ANALYSES: BTEX / MTBE | TPH 418.1 | TPH 1005 | TPH 1006 | GASOLINE MOD 8015 | DIESEL MOD 8015 | OIL - MOD 8015 | VOC 8260 | SVOC 8270 | 8081 PESTICIDES | PAH 8270 | HOLDPAH | 8082 PCBS | 8151 HERBICIDES | TCLP VOC | TCLP - METALS (RCRA) | TCLP - PEST | HERB | Semi-VOC | TOTAL METALS (RCRA) | OTHER LIST | LEAD - TOTAL | D W 200.8 | TCLP | RCI | TCX | TDS | FLASHPOINT | TSS | % MOISTURE | pH | HEXAVALENT CHROMIUM | CYANIDE | EXPLOSIVES | PECHLORATE | CHLORIDE | ANIONS | ALKALINITY | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-14 0.5' | | 12/20/21 | 1540 | S | 1 | | | | X | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 202 |
| S-14, 1' | | 1 | 1542 | 1 | 1 | | | | 1 | | 1 | | 1 | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) _____ DATE/TIME 12/21/21 0920 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 4.4/4.5 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

# Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-9573-1
SDG Number: 21-0105-08

**Login Number: 9573**
**List Number: 1**
**Creator: Teel, Brianna**

**List Source: Eurofins Xenco, Midland**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

eurofins | Environment Testing America



# ANALYTICAL REPORT

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

Laboratory Job ID: 880-10694-1
Laboratory Sample Delivery Group: 21-0105-08
Client Project/Site: Boo Radley
Revision: 1

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

Attn: Mr. Mark J Larson

Holly Taylor

*Authorized for release by:*
*7/7/2022 5:54:24 PM*

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

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-10694-1
SDG: 21-0105-08

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# Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-10694-1
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. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

### GC Semi VOA

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

### HPLC/IC

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD recovery exceeds control limits. |
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | 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: 880-10694-1
SDG: 21-0105-08

## Job ID: 880-10694-1

### Laboratory: Eurofins Midland

**Narrative**

**Job Narrative**
**880-10694-1**

**Comments**
No additional comments.

**Revision**
The report being provided is a revision of the original report sent on 2/7/2022. The report (revision 1) is being revised to remove all sample results for PB-11 at all depths per Robert Nelson (email).

**Receipt**
The samples were received on 1/28/2022 10:03 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.2º C.

**GC VOA**
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-18031 and 880-18038 and analytical batch 880-18042 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PB 1 1' (880-10694-1), PB 1 5' (880-10694-3), PB 1 9' (880-10694-4), PB 2 1' (880-10694-5), PB 2 5' (880-10694-7), PB 4 5' (880-10694-15), PB 7 3' (880-10694-26), PB 8 1' (880-10694-29), PB 8 5' (880-10694-31), PB 9 1' (880-10694-33), PB 9 5' (880-10694-35), PB 9 10' (880-10694-36), PB 11 10' (880-10694-44), S1 9' (880-10694-48), (880-10694-A-21-A MS) and (880-10694-A-41-B MSD). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S2 3' (880-10694-51), S8 1' (880-10694-58) and (CCV 880-18101/20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

**GC Semi VOA**
Method 8015B NM: Surrogate recovery for the following samples were outside control limits: PB 1 5' (880-10694-3), (MB 880-18188/1-A), (880-10694-A-1-E MS) and (880-10694-A-1-F MSD). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: S9 1' (880-10694-62), (880-10698-A-1-C MS) and (880-10698-A-1-D MSD). Evidence of matrix interferences is not obvious.

Method 8015B NM: The CCV was biased low for the gasoline range hydrocarbons. However, the subsequent CCV was analyzed and acceptable within the 12 hour window therefore, the data was qualified and accepted.
(CCV 880-18339/19)

Method 8015B NM: The CCV was biased low for gasoline range hydrocarbons. The subsequent CCV was analyzed and was acceptable within the 12 hour window, therefore, the data was qualified and reported.
(CCV 880-18343/19)

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (880-10694-A-41-F MSD). Evidence of matrix interferences is not obvious.

Method 8015B NM: The CCV was biased low for gasoline range hydrocarbons. The subsequent CCV was analyzed and was acceptable within the 12 hour window, therefore, the data was qualified and reported.
(CCV 880-18343/46)

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: PB 1 9' (880-10694-4), PB 2 1' (880-10694-5), PB 2 5' (880-10694-7) and PB 3 5' (880-10694-11). Evidence of matrix interferences is not obvious.

# Case Narrative

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Job ID: 880-10694-1 (Continued)

### Laboratory: Eurofins Midland (Continued)

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: PB 9 1' (880-10694-33), PB 9 3' (880-10694-34) and PB 9 5' (880-10694-35). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (880-10694-A-21-F 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.

**General Chemistry**
Method 300.0: The continuing calibration blank (CCB) for analytical batch 880-18408 contained Chloride above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18212 and 880-18212 and analytical batch 880-18519 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

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

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 1 1'

**Date Collected: 01/24/22 12:12**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-1

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:36 | 1 |
| Toluene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:36 | 1 |
| Ethylbenzene | <0.00200 | U F1 F2 | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:36 | 1 |
| m,p-Xylenes | <0.00401 | U F1 | 0.00401 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:36 | 1 |
| o-Xylene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:36 | 1 |
| Xylenes, Total | <0.00401 | U F1 | 0.00401 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *131* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 15:36* | *1* |
| *1,4-Difluorobenzene (Surr)* | *87* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 15:36* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 12:44 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 12:44 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 12:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *76* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 12:44* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 12:44* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **21.9** | | 5.04 | | mg/Kg | | | 02/03/22 13:35 | 1 |

## Client Sample ID: PB 1 3'

**Date Collected: 01/24/22 12:13**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-2

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:56 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:56 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:56 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:56 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:56 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 15:56* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 15:56* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 1 3'

**Date Collected: 01/24/22 12:13**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-2

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 16:33 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 16:33 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 16:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *75* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 16:33* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 16:33* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **23.0** | | 5.04 | | mg/Kg | | | 02/03/22 15:12 | 1 |

## Client Sample ID: PB 1 5'

**Date Collected: 01/24/22 12:14**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-3

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:17 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:17 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:17 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:17 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:17 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *136* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 16:17* | *1* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 16:17* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 16:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 16:55 | 1 |

Eurofins Midland

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 1 5'

**Date Collected: 01/24/22 12:14**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-3

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 16:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *66* | *S1-* | *70 - 130* | *01/31/22 14:58* | *02/02/22 16:55* | *1* |
| *o-Terphenyl (Surr)* | *74* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 16:55* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **13.9** | | 5.00 | | mg/Kg | | | 02/04/22 12:16 | 1 |

## Client Sample ID: PB 1 9'

**Date Collected: 01/24/22 12:15**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-4

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:37 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:37 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:37 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:37 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:37 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *181* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 16:37* | *1* |
| *1,4-Difluorobenzene (Surr)* | *128* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 16:37* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 17:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 17:38 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 17:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *67* | *S1-* | *70 - 130* | *01/31/22 14:58* | *02/02/22 17:38* | *1* |
| *o-Terphenyl (Surr)* | *74* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 17:38* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **32.5** | | 4.98 | | mg/Kg | | | 02/04/22 12:28 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 2 1'

**Date Collected: 01/24/22 13:15**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-5

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:58 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:58 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:58 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:58 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:58 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 16:58* | *1* |
| *1,4-Difluorobenzene (Surr)* | *137* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 16:58* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00397 | U | 0.00397 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:00 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *65* | *S1-* | *70 - 130* | *01/31/22 14:58* | *02/02/22 18:00* | *1* |
| *o-Terphenyl (Surr)* | *74* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 18:00* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **59.8** | | 4.96 | | mg/Kg | | | 02/04/22 12:40 | 1 |

## Client Sample ID: PB 2 3'

**Date Collected: 01/24/22 13:16**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-6

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:18 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:18 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:18 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:18 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:18 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *116* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 17:18* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 17:18* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 2 3'

**Date Collected: 01/24/22 13:16**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-6**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:22 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:22 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *73* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 18:22* | *1* |
| *o-Terphenyl (Surr)* | *82* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 18:22* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **564** | | 25.0 | | mg/Kg | | | 02/03/22 16:23 | 5 |

## Client Sample ID: PB 2 5'

**Date Collected: 01/24/22 13:17**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-7**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:38 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:38 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:38 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:38 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:38 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *131* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 17:38* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 17:38* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:43 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 2 5'

**Date Collected: 01/24/22 13:17**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-7

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *67* | *S1-* | *70 - 130* | *01/31/22 14:58* | *02/02/22 18:43* | *1* |
| *o-Terphenyl (Surr)* | *75* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 18:43* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **14.2** | | 5.05 | | mg/Kg | | | 02/04/22 12:52 | 1 |

## Client Sample ID: PB 2 8'

**Date Collected: 01/24/22 13:18**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-8

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:59 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:59 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:59 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:59 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:59 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *124* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 17:59* | *1* |
| *1,4-Difluorobenzene (Surr)* | *78* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 17:59* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:06 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *73* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 19:06* | *1* |
| *o-Terphenyl (Surr)* | *81* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 19:06* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <49.8 | U | 49.8 | | mg/Kg | | | 02/03/22 16:46 | 10 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 3 1'

**Date Collected: 01/24/22 13:45**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-9

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:19 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:19 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:19 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:19 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:19 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 18:19* | *1* |
| *1,4-Difluorobenzene (Surr)* | *125* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 18:19* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:27 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:27 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *78* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 19:27* | *1* |
| *o-Terphenyl (Surr)* | *89* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 19:27* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1920** | | 24.9 | | mg/Kg | | | 02/03/22 16:58 | 5 |

## Client Sample ID: PB 3 3'

**Date Collected: 01/24/22 13:46**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-10

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:40 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:40 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:40 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:40 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:40 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 18:40* | *1* |
| *1,4-Difluorobenzene (Surr)* | *88* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 18:40* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 3 3'

**Date Collected: 01/24/22 13:46**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-10

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:49 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:49 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *72* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 19:49* | *1* |
| *o-Terphenyl (Surr)* | *81* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 19:49* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **210** | | 5.00 | | mg/Kg | | | 02/02/22 18:46 | 1 |

## Client Sample ID: PB 3 5'

**Date Collected: 01/24/22 13:47**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-11

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:30 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:30 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:30 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:30 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:30 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *130* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 20:30* | *1* |
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 20:30* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00397 | U | 0.00397 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:11 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:11 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 3 5'

**Date Collected: 01/24/22 13:47**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-11**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *63* | *S1-* | *70 - 130* | *01/31/22 14:58* | *02/02/22 20:11* | *1* |
| *o-Terphenyl (Surr)* | *70* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 20:11* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **235** | | 5.05 | | mg/Kg | | | 02/02/22 19:09 | 1 |

## Client Sample ID: PB 3 9'

**Date Collected: 01/24/22 13:48**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-12**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:50 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:50 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:50 | 1 |
| m,p-Xylenes | <0.00396 | U | 0.00396 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:50 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:50 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 20:50* | *1* |
| *1,4-Difluorobenzene (Surr)* | *79* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 20:50* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00396 | U | 0.00396 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:33 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:33 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *71* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 20:33* | *1* |
| *o-Terphenyl (Surr)* | *79* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 20:33* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **431** | | 4.95 | | mg/Kg | | | 02/02/22 19:16 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 4 1'

**Date Collected: 01/26/22 09:00**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-13**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:11 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:11 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:11 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:11 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:11 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *80* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 21:11* | *1* |
| *1,4-Difluorobenzene (Surr)* | *75* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 21:11* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:54 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:54 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *86* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 20:54* | *1* |
| *o-Terphenyl (Surr)* | *97* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 20:54* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **211** | | 4.99 | | mg/Kg | | | 02/02/22 19:24 | 1 |

## Client Sample ID: PB 4 3'

**Date Collected: 01/26/22 09:01**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-14**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:31 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:31 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:31 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:31 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:31 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 21:31* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 21:31* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 4 3'

**Date Collected: 01/26/22 09:01**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-14**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 01:34 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 01:34 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 01:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *90* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 01:34* | *1* |
| *o-Terphenyl (Surr)* | *89* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 01:34* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **48.5** | | 5.04 | | mg/Kg | | | 02/02/22 19:31 | 1 |

## Client Sample ID: PB 4 5'

**Date Collected: 01/26/22 09:02**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-15**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:52 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:52 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:52 | 1 |
| m,p-Xylenes | <0.00404 | U | 0.00404 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:52 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:52 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *138* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 21:52* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 21:52* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00404 | U | 0.00404 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 01:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 01:55 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 4 5'

**Date Collected: 01/26/22 09:02**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-15

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 01:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *103* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 01:55* | *1* |
| *o-Terphenyl (Surr)* | *101* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 01:55* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **747** | | 24.9 | | mg/Kg | | | 02/02/22 19:54 | 5 |

## Client Sample ID: PB 4 10'

**Date Collected: 01/26/22 09:02**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-16

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:12 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:12 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:12 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:12 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:12 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *134* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 22:12* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 22:12* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 02:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 02:16 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 02:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *83* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 02:16* | *1* |
| *o-Terphenyl (Surr)* | *81* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 02:16* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **5570** | | 49.8 | | mg/Kg | | | 02/02/22 20:02 | 10 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 5 1'

**Date Collected: 01/26/22 09:38**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-17

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:33 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:33 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:33 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:33 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:33 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *124* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 22:33* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 22:33* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 02:57 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 02:57 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 02:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *88* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 02:57* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 02:57* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **801** | | 5.00 | | mg/Kg | | | 02/02/22 20:09 | 1 |

## Client Sample ID: PB 5 3'

**Date Collected: 01/26/22 09:39**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-18

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:53 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:53 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:53 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:53 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:53 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *129* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 22:53* | *1* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 22:53* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 5 3'

**Date Collected: 01/26/22 09:39**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-18

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:18 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:18 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *81* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 03:18* | *1* |
| *o-Terphenyl (Surr)* | *82* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 03:18* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 82.7 | | 5.00 | | mg/Kg | | | 02/02/22 20:17 | 1 |

## Client Sample ID: PB 5 5'

**Date Collected: 01/26/22 09:40**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-19

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:14 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:14 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:14 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:14 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:14 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 23:14* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 23:14* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:38 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 5 5'

**Date Collected: 01/26/22 09:40**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-19**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *83* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 03:38* | *1* |
| *o-Terphenyl (Surr)* | *83* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 03:38* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **8.55** | | 4.95 | | mg/Kg | | | 02/02/22 23:10 | 1 |

## Client Sample ID: PB 5 10'

**Date Collected: 01/26/22 09:44**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-20**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:34 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:34 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:34 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:34 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:34 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *130* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 23:34* | *1* |
| *1,4-Difluorobenzene (Surr)* | *112* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 23:34* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:58 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *83* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 03:58* | *1* |
| *o-Terphenyl (Surr)* | *82* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 03:58* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **10.5** | | 5.00 | | mg/Kg | | | 02/02/22 23:33 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 6 1'

**Date Collected: 01/26/22 11:24**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-21**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U F1 F2 | 0.00202 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:13 | 1 |
| Toluene | <0.00202 | U F1 | 0.00202 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:13 | 1 |
| Ethylbenzene | <0.00202 | U F1 | 0.00202 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:13 | 1 |
| m,p-Xylenes | <0.00403 | U F1 | 0.00403 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:13 | 1 |
| o-Xylene | <0.00202 | U F1 | 0.00202 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:13 | 1 |
| Xylenes, Total | <0.00403 | U F1 | 0.00403 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *119* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 03:13* | *1* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 03:13* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 10:39 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 10:39 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 10:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *78* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 10:39* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 10:39* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **6640** | | 49.6 | | mg/Kg | | | 02/02/22 23:41 | 10 |

## Client Sample ID: PB 6 3'

**Date Collected: 01/26/22 11:25**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-22**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:33 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:33 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:33 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:33 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:33 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *126* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 03:33* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 03:33* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 6 3'

**Date Collected: 01/26/22 11:25**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-22

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 11:45 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 11:45 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 11:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *78* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 11:45* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 11:45* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **59.6** | | 4.97 | | mg/Kg | | | 02/02/22 23:48 | 1 |

## Client Sample ID: PB 6 5'

**Date Collected: 01/26/22 11:26**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-23

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:54 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:54 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:54 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:54 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:54 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *126* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 03:54* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 03:54* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:07 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:07 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 6 5'

**Date Collected: 01/26/22 11:26**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-23

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *89* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 12:07* | *1* |
| *o-Terphenyl (Surr)* | *98* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 12:07* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **224** | | 5.00 | | mg/Kg | | | 02/02/22 23:56 | 1 |

## Client Sample ID: PB 6 10'

**Date Collected: 01/26/22 11:27**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-24

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:14 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:14 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:14 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:14 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:14 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 04:14* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 04:14* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:28 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:28 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *70* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 12:28* | *1* |
| *o-Terphenyl (Surr)* | *79* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 12:28* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **470** | | 4.95 | | mg/Kg | | | 02/03/22 00:18 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 7 1'

**Date Collected: 01/26/22 10:21**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-25**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:35 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:35 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:35 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:35 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:35 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 04:35* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 04:35* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:50 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:50 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *77* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 12:50* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 12:50* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **4480** | | 25.0 | | mg/Kg | | | 02/03/22 00:26 | 5 |

## Client Sample ID: PB 7 3'

**Date Collected: 01/26/22 10:22**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-26**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:55 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:55 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:55 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:55 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:55 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *132* | *S1+* | *70 - 130* | *01/28/22 11:06* | *01/29/22 04:55* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 04:55* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 7 3'

**Date Collected: 01/26/22 10:22**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-26

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:12 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:12 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *72* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 13:12* | *1* |
| *o-Terphenyl (Surr)* | *80* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 13:12* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **51.5** | | 4.97 | | mg/Kg | | | 02/03/22 00:33 | 1 |

## Client Sample ID: PB 7 5'

**Date Collected: 01/26/22 10:23**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-27

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:16 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:16 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:16 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:16 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:16 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *119* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 05:16* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 05:16* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00397 | U | 0.00397 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:34 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:34 | 1 |

Eurofins Midland

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 7 5'

**Lab Sample ID: 880-10694-27**
**Matrix: Solid**
**Date Collected: 01/26/22 10:23**
**Date Received: 01/28/22 10:03**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *81* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 13:34* | *1* |
| *o-Terphenyl (Surr)* | *95* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 13:34* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **30.1** | | 5.00 | | mg/Kg | | | 02/03/22 00:41 | 1 |

## Client Sample ID: PB 7 10'

**Lab Sample ID: 880-10694-28**
**Matrix: Solid**
**Date Collected: 01/26/22 10:24**
**Date Received: 01/28/22 10:03**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:36 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:36 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:36 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:36 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:36 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 05:36* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 05:36* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:56 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:56 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *85* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 13:56* | *1* |
| *o-Terphenyl (Surr)* | *96* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 13:56* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **80.3** | | 4.96 | | mg/Kg | | | 02/03/22 00:49 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 8 1'

**Date Collected: 01/26/22 13:53**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-29**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:56 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:56 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:56 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:56 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:56 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *142* | *S1+* | *70 - 130* | *01/28/22 11:06* | *01/29/22 05:56* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 05:56* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 14:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 14:16 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 14:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *77* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 14:16* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 14:16* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **16700** | | 101 | | mg/Kg | | | 02/03/22 00:56 | 20 |

## Client Sample ID: PB 8 3'

**Date Collected: 01/26/22 13:56**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-30**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 06:17 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 06:17 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 06:17 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 06:17 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 06:17 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 06:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 06:17* | *1* |
| *1,4-Difluorobenzene (Surr)* | *89* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 06:17* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 8 3'

**Date Collected: 01/26/22 13:56**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-30

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 14:39 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 14:39 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 14:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *84* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 14:39* | *1* |
| *o-Terphenyl (Surr)* | *96* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 14:39* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **16.9** | | 4.99 | | mg/Kg | | | 02/03/22 01:19 | 1 |

## Client Sample ID: PB 8 5'

**Date Collected: 01/26/22 13:55**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-31

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:07 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:07 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:07 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:07 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:07 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *131* | *S1+* | *70 - 130* | *01/28/22 11:06* | *01/29/22 08:07* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 08:07* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 15:36 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 15:36 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 8 5'

**Date Collected: 01/26/22 13:55**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-31

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 15:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *92* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 15:36* | *1* |
| *o-Terphenyl (Surr)* | *107* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 15:36* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **80.4** | | 5.05 | | mg/Kg | | | 02/03/22 01:27 | 1 |

## Client Sample ID: PB 8 10'

**Date Collected: 01/26/22 13:56**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-32

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:27 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:27 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:27 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:27 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:27 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *127* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 08:27* | *1* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 08:27* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 15:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 15:55 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 15:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *80* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 15:55* | *1* |
| *o-Terphenyl (Surr)* | *90* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 15:55* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **6.70** | | 5.01 | | mg/Kg | | | 02/03/22 01:49 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 9 1'

**Date Collected: 01/27/22 09:56**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-33

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:48 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:48 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:48 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:48 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:48 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *136* | *S1+* | *70 - 130* | *01/28/22 11:06* | *01/29/22 08:48* | *1* |
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 08:48* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:15 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:15 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *67* | *S1-* | *70 - 130* | *01/31/22 15:02* | *02/03/22 16:15* | *1* |
| *o-Terphenyl (Surr)* | *74* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 16:15* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **16.4** | | 4.98 | | mg/Kg | | | 02/03/22 01:57 | 1 |

## Client Sample ID: PB 9 3'

**Date Collected: 01/27/22 09:57**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-34

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:08 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:08 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:08 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:08 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:08 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 09:08* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 09:08* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 9 3'

**Date Collected: 01/27/22 09:57**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-34

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00397 | U | 0.00397 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:35 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:35 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *68* | *S1-* | *70 - 130* | *01/31/22 15:02* | *02/03/22 16:35* | *1* |
| *o-Terphenyl (Surr)* | *77* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 16:35* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **10.8** | | 5.00 | | mg/Kg | | | 02/03/22 02:04 | 1 |

## Client Sample ID: PB 9 5'

**Date Collected: 01/27/22 09:58**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-35

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:29 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:29 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:29 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:29 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:29 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *139* | *S1+* | *70 - 130* | *01/28/22 11:06* | *01/29/22 09:29* | *1* |
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 09:29* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:55 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 9 5'

**Date Collected: 01/27/22 09:58**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-35**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *69* | *S1-* | *70 - 130* | *01/31/22 15:02* | *02/03/22 16:55* | *1* |
| *o-Terphenyl (Surr)* | *80* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 16:55* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **5.55** | | 4.96 | | mg/Kg | | | 02/03/22 02:12 | 1 |

## Client Sample ID: PB 9 10'

**Date Collected: 01/27/22 09:59**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-36**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:49 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:49 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:49 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:49 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:49 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *132* | *S1+* | *70 - 130* | *01/28/22 11:06* | *01/29/22 09:49* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 09:49* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:16 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *83* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 17:16* | *1* |
| *o-Terphenyl (Surr)* | *97* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 17:16* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.02 | U | 5.02 | | mg/Kg | | | 02/03/22 02:20 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 10 1'

**Date Collected: 01/27/22 10:29**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-37

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:10 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:10 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:10 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:10 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:10 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *118* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 10:10* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 10:10* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:36 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:36 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *89* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 17:36* | *1* |
| *o-Terphenyl (Surr)* | *99* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 17:36* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **11.3** | | 4.99 | | mg/Kg | | | 02/03/22 02:27 | 1 |

## Client Sample ID: PB 10 3'

**Date Collected: 01/27/22 10:30**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-38

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:30 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:30 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:30 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:30 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:30 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *130* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 10:30* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 10:30* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10694-1
Project/Site: Boo Radley SDG: 21-0105-08

## Client Sample ID: PB 10 3' Lab Sample ID: 880-10694-38
**Date Collected: 01/27/22 10:30** **Matrix: Solid**
**Date Received: 01/28/22 10:03**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:56 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:56 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *74* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 17:56* | *1* |
| *o-Terphenyl (Surr)* | *85* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 17:56* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 02/03/22 02:35 | 1 |

## Client Sample ID: PB 10 5' Lab Sample ID: 880-10694-39
**Date Collected: 01/27/22 10:31** **Matrix: Solid**
**Date Received: 01/28/22 10:03**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:51 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:51 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:51 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:51 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:51 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *127* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 10:51* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 10:51* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 18:15 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 18:15 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 10 5'

**Lab Sample ID: 880-10694-39**
**Matrix: Solid**
**Date Collected: 01/27/22 10:31**
**Date Received: 01/28/22 10:03**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 18:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *78* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 18:15* | *1* |
| *o-Terphenyl (Surr)* | *89* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 18:15* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **244** | **F1** | 5.00 | | mg/Kg | | | 02/03/22 11:30 | 1 |

## Client Sample ID: PB 10 10'

**Lab Sample ID: 880-10694-40**
**Matrix: Solid**
**Date Collected: 01/27/22 10:32**
**Date Received: 01/28/22 10:03**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 11:11 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 11:11 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 11:11 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 11:11 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 11:11 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 11:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *124* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 11:11* | *1* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 11:11* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 18:36 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 18:36 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 18:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *79* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 18:36* | *1* |
| *o-Terphenyl (Surr)* | *91* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 18:36* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **76.7** | | 4.98 | | mg/Kg | | | 02/03/22 11:53 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S1 1'

**Date Collected: 01/24/22 14:15**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-45**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:11 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:11 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:11 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:11 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:11 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *128* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 16:11* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 16:11* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 17:30 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 17:30 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 17:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *99* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 17:30* | *1* |
| *o-Terphenyl (Surr)* | *98* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 17:30* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1940** | | 25.0 | | mg/Kg | | | 02/03/22 12:46 | 5 |

## Client Sample ID: S1 3'

**Date Collected: 01/24/22 14:16**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-46**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:31 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:31 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:31 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:31 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:31 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *128* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 16:31* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 16:31* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S1 3'

**Date Collected: 01/24/22 14:16**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-46**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 17:51 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 17:51 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 17:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *88* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 17:51* | *1* |
| *o-Terphenyl (Surr)* | *83* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 17:51* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3260** | | 25.0 | | mg/Kg | | | 02/03/22 12:54 | 5 |

## Client Sample ID: S1 5'

**Date Collected: 01/24/22 14:17**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-47**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:52 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:52 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:52 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:52 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:52 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *128* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 16:52* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 16:52* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:12 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:12 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S1 5'

**Lab Sample ID: 880-10694-47**
**Matrix: Solid**
**Date Collected: 01/24/22 14:17**
**Date Received: 01/28/22 10:03**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *88* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 18:12* | *1* |
| *o-Terphenyl (Surr)* | *85* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 18:12* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1180** | | 49.5 | | mg/Kg | | | 02/03/22 13:01 | 10 |

## Client Sample ID: S1 9'

**Lab Sample ID: 880-10694-48**
**Matrix: Solid**
**Date Collected: 01/24/22 14:18**
**Date Received: 01/28/22 10:03**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:12 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:12 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:12 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:12 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:12 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *131* | *S1+* | *70 - 130* | *01/28/22 11:09* | *01/29/22 17:12* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 17:12* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:34 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:34 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *79* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 18:34* | *1* |
| *o-Terphenyl (Surr)* | *78* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 18:34* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **2530** | | 50.1 | | mg/Kg | | | 02/03/22 13:09 | 10 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S1 12'

**Date Collected: 01/24/22 14:19**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-49

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:33 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:33 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:33 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:33 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:33 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *120* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 17:33* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 17:33* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:55 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *93* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 18:55* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 18:55* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1010** | **F1** | 50.5 | | mg/Kg | | | 02/03/22 13:17 | 10 |

## Client Sample ID: S2 1'

**Date Collected: 01/26/22 08:08**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-50

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:53 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:53 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:53 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:53 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:53 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 17:53* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 17:53* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S2 1'

**Date Collected: 01/26/22 08:08**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-50**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:17 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:17 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *86* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 19:17* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 19:17* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 3190 | | 24.9 | | mg/Kg | | | 02/03/22 13:39 | 5 |

## Client Sample ID: S2 3'

**Date Collected: 01/26/22 08:09**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-51**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:14 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:14 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:14 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:14 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:14 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *147* | *S1+* | *70 - 130* | *01/31/22 07:27* | *01/31/22 11:14* | *1* |
| *1,4-Difluorobenzene (Surr)* | *116* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 11:14* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:38 | 1 |

Eurofins Midland

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S2 3'

**Date Collected: 01/26/22 08:09**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-51**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *93* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 19:38* | *1* |
| *o-Terphenyl (Surr)* | *94* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 19:38* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **2100** | | 24.8 | | mg/Kg | | | 02/03/22 13:47 | 5 |

## Client Sample ID: S2 5'

**Date Collected: 01/26/22 08:10**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-52**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:35 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:35 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:35 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:35 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:35 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *129* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 11:35* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 11:35* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:59 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:59 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *85* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 19:59* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 19:59* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **2550** | | 24.9 | | mg/Kg | | | 02/03/22 14:09 | 5 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S2 9'

**Date Collected: 01/26/22 08:11**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-53**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:55 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:55 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:55 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:55 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:55 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *120* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 11:55* | *1* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 11:55* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 20:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 20:21 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 20:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *89* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 20:21* | *1* |
| *o-Terphenyl (Surr)* | *88* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 20:21* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **10200** | | 50.0 | | mg/Kg | | | 02/03/22 14:24 | 10 |

## Client Sample ID: S7 1'

**Date Collected: 01/26/22 12:35**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-54**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:16 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:16 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:16 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:16 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:16 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *126* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 12:16* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 12:16* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S7 1'

**Date Collected: 01/26/22 12:35**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-54**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 20:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 20:42 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 20:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *90* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 20:42* | *1* |
| *o-Terphenyl (Surr)* | *90* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 20:42* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **390** | | 5.00 | | mg/Kg | | | 02/03/22 14:17 | 1 |

## Client Sample ID: S7 3'

**Date Collected: 01/26/22 12:36**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-55**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:36 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:36 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:36 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:36 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:36 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *131* | *S1+* | *70 - 130* | *01/31/22 07:27* | *01/31/22 12:36* | *1* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 12:36* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 04:19 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 04:19 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S7 3'

**Lab Sample ID: 880-10694-55**
**Matrix: Solid**
**Date Collected: 01/26/22 12:36**
**Date Received: 01/28/22 10:03**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 04:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *82* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 04:19* | *1* |
| *o-Terphenyl (Surr)* | *80* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 04:19* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **520** | | 5.03 | | mg/Kg | | | 02/03/22 14:32 | 1 |

## Client Sample ID: S7 5'

**Lab Sample ID: 880-10694-56**
**Matrix: Solid**
**Date Collected: 01/26/22 12:37**
**Date Received: 01/28/22 10:03**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:56 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:56 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:56 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:56 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:56 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *130* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 12:56* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 12:56* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 04:40 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 04:40 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 04:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *83* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 04:40* | *1* |
| *o-Terphenyl (Surr)* | *81* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 04:40* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **37.5** | | 4.99 | | mg/Kg | | | 02/03/22 14:40 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S7 10'

**Date Collected: 01/26/22 12:38**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-57**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:17 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:17 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:17 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:17 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:17 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *118* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 13:17* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 13:17* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:00 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *86* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 05:00* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 05:00* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **12.5** | | 5.00 | | mg/Kg | | | 02/03/22 14:47 | 1 |

## Client Sample ID: S8 1'

**Date Collected: 01/27/22 11:34**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-58**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:37 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:37 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:37 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:37 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:37 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *135* | *S1+* | *70 - 130* | *01/31/22 07:27* | *01/31/22 13:37* | *1* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 13:37* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S8 1'

**Date Collected: 01/27/22 11:34**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-58**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:22 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:22 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *98* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 05:22* | *1* |
| *o-Terphenyl (Surr)* | *96* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 05:22* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **48.8** | | 4.99 | | mg/Kg | | | 02/03/22 00:35 | 1 |

## Client Sample ID: S8 3'

**Date Collected: 01/27/22 11:35**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-59**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:58 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:58 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:58 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:58 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:58 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *131* | *S1+* | *70 - 130* | *01/31/22 07:27* | *01/31/22 13:58* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 13:58* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:43 | 1 |

Eurofins Midland

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S8 3'

**Date Collected: 01/27/22 11:35**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-59

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *84* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 05:43* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 05:43* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **28.1** | | 5.04 | | mg/Kg | | | 02/03/22 00:54 | 1 |

## Client Sample ID: S8 5'

**Date Collected: 01/27/22 11:36**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-60

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 14:18 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 14:18 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 14:18 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 14:18 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 14:18 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 14:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 14:18* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 14:18* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00397 | U | 0.00397 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 06:03 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 06:03 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 06:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *95* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 06:03* | *1* |
| *o-Terphenyl (Surr)* | *94* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 06:03* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **23.6** | | 5.00 | | mg/Kg | | | 02/03/22 01:00 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S8 10'

**Date Collected: 01/27/22 11:37**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-61**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 11:44 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 11:44 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 11:44 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 11:44 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 11:44 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 11:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *148* | *S1+* | *70 - 130* | *01/28/22 13:19* | *01/29/22 11:44* | *1* |
| *1,4-Difluorobenzene (Surr)* | *105* | | *70 - 130* | *01/28/22 13:19* | *01/29/22 11:44* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 17:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 17:38 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 17:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *81* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 17:38* | *1* |
| *o-Terphenyl (Surr)* | *88* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 17:38* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **21.4** | | 4.95 | | mg/Kg | | | 02/03/22 01:06 | 1 |

## Client Sample ID: S9 1'

**Date Collected: 01/27/22 08:50**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-62**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:12 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:12 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:12 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:12 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:12 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *163* | *S1+* | *70 - 130* | *01/28/22 13:19* | *01/29/22 12:12* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | *01/28/22 13:19* | *01/29/22 12:12* | *1* |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S9 1'

**Date Collected: 01/27/22 08:50**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-62**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:00 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *69* | *S1-* | *70 - 130* | *01/31/22 15:06* | *02/02/22 18:00* | *1* |
| *o-Terphenyl (Surr)* | *75* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 18:00* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **13500** | | 100 | | mg/Kg | | | 02/03/22 01:12 | 20 |

## Client Sample ID: S9 3'

**Date Collected: 01/27/22 08:51**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-63**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:40 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:40 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:40 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:40 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:40 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *155* | *S1+* | *70 - 130* | *01/28/22 13:19* | *01/29/22 12:40* | *1* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* | *01/28/22 13:19* | *01/29/22 12:40* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:22 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:22 | 1 |

Eurofins Midland

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S9 3'

**Date Collected: 01/27/22 08:51**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-63**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *77* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 18:22* | *1* |
| *o-Terphenyl (Surr)* | *89* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 18:22* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **281** | | 4.98 | | mg/Kg | | | 02/03/22 01:31 | 1 |

## Client Sample ID: S9 5'

**Date Collected: 01/27/22 08:52**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-64**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:08 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:08 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:08 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:08 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:08 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *156* | *S1+* | *70 - 130* | *01/28/22 13:19* | *01/29/22 13:08* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | *01/28/22 13:19* | *01/29/22 13:08* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:43 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *72* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 18:43* | *1* |
| *o-Terphenyl (Surr)* | *82* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 18:43* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **128** | | 4.99 | | mg/Kg | | | 02/03/22 01:37 | 1 |

# Client Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S9 10'

**Date Collected: 01/27/22 08:53**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-65

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:36 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:36 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:36 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:36 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:36 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *147* | *S1+* | *70 - 130* | *01/28/22 13:19* | *01/29/22 13:36* | *1* |
| *1,4-Difluorobenzene (Surr)* | *10* | *S1-* | *70 - 130* | *01/28/22 13:19* | *01/29/22 13:36* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 02/03/22 13:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 19:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 19:06 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 19:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *91* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 19:06* | *1* |
| *o-Terphenyl (Surr)* | *101* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 19:06* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **26.2** | | 5.00 | | mg/Kg | | | 02/03/22 01:43 | 1 |

# Surrogate Summary

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

Job ID: 880-10694-1
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) |
| 880-10665-A-1-A MS | Matrix Spike | 113 | 102 |
| 880-10665-A-1-B MSD | Matrix Spike Duplicate | 139 S1+ | 110 |
| 880-10694-1 | PB 1 1' | 131 S1+ | 87 |
| 880-10694-1 MS | PB 1 1' | 93 | 73 |
| 880-10694-1 MSD | PB 1 1' | 110 | 112 |
| 880-10694-2 | PB 1 3' | 122 | 100 |
| 880-10694-3 | PB 1 5' | 136 S1+ | 91 |
| 880-10694-4 | PB 1 9' | 181 S1+ | 128 |
| 880-10694-5 | PB 2 1' | 114 | 137 S1+ |
| 880-10694-6 | PB 2 3' | 116 | 102 |
| 880-10694-7 | PB 2 5' | 131 S1+ | 102 |
| 880-10694-8 | PB 2 8' | 124 | 78 |
| 880-10694-9 | PB 3 1' | 123 | 125 |
| 880-10694-10 | PB 3 3' | 123 | 88 |
| 880-10694-11 | PB 3 5' | 130 | 113 |
| 880-10694-12 | PB 3 9' | 109 | 79 |
| 880-10694-13 | PB 4 1' | 80 | 75 |
| 880-10694-14 | PB 4 3' | 114 | 107 |
| 880-10694-15 | PB 4 5' | 138 S1+ | 98 |
| 880-10694-16 | PB 4 10' | 134 S1+ | 103 |
| 880-10694-17 | PB 5 1' | 124 | 100 |
| 880-10694-18 | PB 5 3' | 129 | 106 |
| 880-10694-19 | PB 5 5' | 123 | 94 |
| 880-10694-20 | PB 5 10' | 130 | 112 |
| 880-10694-21 | PB 6 1' | 119 | 97 |
| 880-10694-21 MS | PB 6 1' | 158 S1+ | 125 |
| 880-10694-21 MSD | PB 6 1' | 130 | 105 |
| 880-10694-22 | PB 6 3' | 126 | 108 |
| 880-10694-23 | PB 6 5' | 126 | 99 |
| 880-10694-24 | PB 6 10' | 122 | 108 |
| 880-10694-25 | PB 7 1' | 122 | 100 |
| 880-10694-26 | PB 7 3' | 132 S1+ | 102 |
| 880-10694-27 | PB 7 5' | 119 | 100 |
| 880-10694-28 | PB 7 10' | 123 | 94 |
| 880-10694-29 | PB 8 1' | 142 S1+ | 100 |
| 880-10694-30 | PB 8 3' | 113 | 89 |
| 880-10694-31 | PB 8 5' | 131 S1+ | 100 |
| 880-10694-32 | PB 8 10' | 127 | 111 |
| 880-10694-33 | PB 9 1' | 136 S1+ | 113 |
| 880-10694-34 | PB 9 3' | 115 | 98 |
| 880-10694-35 | PB 9 5' | 139 S1+ | 113 |
| 880-10694-36 | PB 9 10' | 132 S1+ | 108 |
| 880-10694-37 | PB 10 1' | 118 | 93 |
| 880-10694-38 | PB 10 3' | 130 | 107 |
| 880-10694-39 | PB 10 5' | 127 | 102 |
| 880-10694-40 | PB 10 10' | 124 | 104 |
| 880-10694-45 | S1 1' | 128 | 98 |
| 880-10694-46 | S1 3' | 128 | 107 |
| 880-10694-47 | S1 5' | 128 | 99 |

# Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-10694-1
Project/Site: Boo Radley SDG: 21-0105-08

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 880-10694-48 | S1 9' | 131 S1+ | 107 |
| 880-10694-49 | S1 12' | 120 | 90 |
| 880-10694-50 | S2 1' | 123 | 102 |
| 880-10694-51 | S2 3' | 147 S1+ | 116 |
| 880-10694-51 MS | S2 3' | 129 | 112 |
| 880-10694-51 MSD | S2 3' | 121 | 98 |
| 880-10694-52 | S2 5' | 129 | 99 |
| 880-10694-53 | S2 9' | 120 | 96 |
| 880-10694-54 | S7 1' | 126 | 99 |
| 880-10694-55 | S7 3' | 131 S1+ | 110 |
| 880-10694-56 | S7 5' | 130 | 102 |
| 880-10694-57 | S7 10' | 118 | 94 |
| 880-10694-58 | S8 1' | 135 S1+ | 104 |
| 880-10694-59 | S8 3' | 131 S1+ | 109 |
| 880-10694-60 | S8 5' | 122 | 107 |
| 880-10694-61 | S8 10' | 148 S1+ | 105 |
| 880-10694-62 | S9 1' | 163 S1+ | 99 |
| 880-10694-63 | S9 3' | 155 S1+ | 110 |
| 880-10694-64 | S9 5' | 156 S1+ | 109 |
| 880-10694-65 | S9 10' | 147 S1+ | 10 S1- |
| 880-10694-A-41-A MS | 880-10694-A-41-A MS | 130 | 95 |
| 880-10694-A-41-B MSD | 880-10694-A-41-B MSD | 133 S1+ | 99 |
| LCS 880-18031/1-A | Lab Control Sample | 102 | 92 |
| LCS 880-18038/1-A | Lab Control Sample | 123 | 110 |
| LCS 880-18039/1-A | Lab Control Sample | 127 | 100 |
| LCS 880-18045/1-A | Lab Control Sample | 132 S1+ | 111 |
| LCS 880-18099/1-A | Lab Control Sample | 119 | 101 |
| LCSD 880-18031/2-A | Lab Control Sample Dup | 115 | 104 |
| LCSD 880-18038/2-A | Lab Control Sample Dup | 122 | 98 |
| LCSD 880-18039/2-A | Lab Control Sample Dup | 118 | 103 |
| LCSD 880-18045/2-A | Lab Control Sample Dup | 139 S1+ | 113 |
| LCSD 880-18099/2-A | Lab Control Sample Dup | 120 | 98 |
| MB 880-17925/5-A | Method Blank | 88 | 96 |
| MB 880-18031/5-A | Method Blank | 122 | 98 |
| MB 880-18038/5-A | Method Blank | 122 | 105 |
| MB 880-18039/5-A | Method Blank | 115 | 95 |
| MB 880-18045/5-A | Method Blank | 92 | 100 |
| MB 880-18099/5-A | Method Blank | 128 | 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) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 880-10694-1 | PB 1 1' | 76 | 86 |
| 880-10694-1 MS | PB 1 1' | 60 S1- | 59 S1- |

# Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-10694-1
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) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) | | | | | | | | |
| 880-10694-1 MSD | PB 1 1' | 61 S1- | 61 S1- | | | | | | | | |
| 880-10694-2 | PB 1 3' | 75 | 87 | | | | | | | | |
| 880-10694-3 | PB 1 5' | 66 S1- | 74 | | | | | | | | |
| 880-10694-4 | PB 1 9' | 67 S1- | 74 | | | | | | | | |
| 880-10694-5 | PB 2 1' | 65 S1- | 74 | | | | | | | | |
| 880-10694-6 | PB 2 3' | 73 | 82 | | | | | | | | |
| 880-10694-7 | PB 2 5' | 67 S1- | 75 | | | | | | | | |
| 880-10694-8 | PB 2 8' | 73 | 81 | | | | | | | | |
| 880-10694-9 | PB 3 1' | 78 | 89 | | | | | | | | |
| 880-10694-10 | PB 3 3' | 72 | 81 | | | | | | | | |
| 880-10694-11 | PB 3 5' | 63 S1- | 70 | | | | | | | | |
| 880-10694-12 | PB 3 9' | 71 | 79 | | | | | | | | |
| 880-10694-13 | PB 4 1' | 86 | 97 | | | | | | | | |
| 880-10694-14 | PB 4 3' | 90 | 89 | | | | | | | | |
| 880-10694-15 | PB 4 5' | 103 | 101 | | | | | | | | |
| 880-10694-16 | PB 4 10' | 83 | 81 | | | | | | | | |
| 880-10694-17 | PB 5 1' | 88 | 86 | | | | | | | | |
| 880-10694-18 | PB 5 3' | 81 | 82 | | | | | | | | |
| 880-10694-19 | PB 5 5' | 83 | 83 | | | | | | | | |
| 880-10694-20 | PB 5 10' | 83 | 82 | | | | | | | | |
| 880-10694-21 | PB 6 1' | 78 | 87 | | | | | | | | |
| 880-10694-21 MS | PB 6 1' | 72 | 70 | | | | | | | | |
| 880-10694-21 MSD | PB 6 1' | 72 | 68 S1- | | | | | | | | |
| 880-10694-22 | PB 6 3' | 78 | 87 | | | | | | | | |
| 880-10694-23 | PB 6 5' | 89 | 98 | | | | | | | | |
| 880-10694-24 | PB 6 10' | 70 | 79 | | | | | | | | |
| 880-10694-25 | PB 7 1' | 77 | 86 | | | | | | | | |
| 880-10694-26 | PB 7 3' | 72 | 80 | | | | | | | | |
| 880-10694-27 | PB 7 5' | 81 | 95 | | | | | | | | |
| 880-10694-28 | PB 7 10' | 85 | 96 | | | | | | | | |
| 880-10694-29 | PB 8 1' | 77 | 87 | | | | | | | | |
| 880-10694-30 | PB 8 3' | 84 | 96 | | | | | | | | |
| 880-10694-31 | PB 8 5' | 92 | 107 | | | | | | | | |
| 880-10694-32 | PB 8 10' | 80 | 90 | | | | | | | | |
| 880-10694-33 | PB 9 1' | 67 S1- | 74 | | | | | | | | |
| 880-10694-34 | PB 9 3' | 68 S1- | 77 | | | | | | | | |
| 880-10694-35 | PB 9 5' | 69 S1- | 80 | | | | | | | | |
| 880-10694-36 | PB 9 10' | 83 | 97 | | | | | | | | |
| 880-10694-37 | PB 10 1' | 89 | 99 | | | | | | | | |
| 880-10694-38 | PB 10 3' | 74 | 85 | | | | | | | | |
| 880-10694-39 | PB 10 5' | 78 | 89 | | | | | | | | |
| 880-10694-40 | PB 10 10' | 79 | 91 | | | | | | | | |
| 880-10694-45 | S1 1' | 99 | 98 | | | | | | | | |
| 880-10694-46 | S1 3' | 88 | 83 | | | | | | | | |
| 880-10694-47 | S1 5' | 88 | 85 | | | | | | | | |
| 880-10694-48 | S1 9' | 79 | 78 | | | | | | | | |
| 880-10694-49 | S1 12' | 93 | 86 | | | | | | | | |
| 880-10694-50 | S2 1' | 86 | 87 | | | | | | | | |
| 880-10694-51 | S2 3' | 93 | 94 | | | | | | | | |
| 880-10694-52 | S2 5' | 85 | 86 | | | | | | | | |

# Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-10694-1
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) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 880-10694-53 | S2 9' | 89 | 88 |
| 880-10694-54 | S7 1' | 90 | 90 |
| 880-10694-55 | S7 3' | 82 | 80 |
| 880-10694-56 | S7 5' | 83 | 81 |
| 880-10694-57 | S7 10' | 86 | 87 |
| 880-10694-58 | S8 1' | 98 | 96 |
| 880-10694-59 | S8 3' | 84 | 87 |
| 880-10694-60 | S8 5' | 95 | 94 |
| 880-10694-61 | S8 10' | 81 | 88 |
| 880-10694-62 | S9 1' | 69 S1- | 75 |
| 880-10694-63 | S9 3' | 77 | 89 |
| 880-10694-64 | S9 5' | 72 | 82 |
| 880-10694-65 | S9 10' | 91 | 101 |
| 880-10694-A-41-E MS | 880-10694-A-41-E MS | 74 | 71 |
| 880-10694-A-41-F MSD | 880-10694-A-41-F MSD | 74 | 68 S1- |
| 880-10698-A-1-C MS | Matrix Spike | 66 S1- | 64 S1- |
| 880-10698-A-1-D MSD | Matrix Spike Duplicate | 66 S1- | 66 S1- |
| 880-10735-B-1-F MS | Matrix Spike | 82 | 79 |
| 880-10735-B-1-G MSD | Matrix Spike Duplicate | 78 | 81 |
| LCS 880-18188/2-A | Lab Control Sample | 79 | 84 |
| LCS 880-18189/2-A | Lab Control Sample | 96 | 98 |
| LCS 880-18190/2-A | Lab Control Sample | 94 | 96 |
| LCSD 880-18188/3-A | Lab Control Sample Dup | 90 | 90 |
| LCSD 880-18189/3-A | Lab Control Sample Dup | 100 | 103 |
| LCSD 880-18190/3-A | Lab Control Sample Dup | 92 | 92 |
| MB 880-18188/1-A | Method Blank | 63 S1- | 74 |
| MB 880-18189/1-A | Method Blank | 82 | 96 |
| MB 880-18190/1-A | Method Blank | 74 | 82 |

**Surrogate Legend**

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO2 (70-130) | OTPH2 (70-130) |
| LCS 880-18166/2-A | Lab Control Sample | 71 | 76 |
| LCS 880-18336/2-A | Lab Control Sample | 78 | 82 |
| LCSD 880-18166/3-A | Lab Control Sample Dup | 81 | 85 |
| LCSD 880-18336/3-A | Lab Control Sample Dup | 78 | 82 |
| MB 880-18166/1-A | Method Blank | 84 | 83 |
| MB 880-18336/1-A | Method Blank | 85 | 86 |

**Surrogate Legend**

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: MB 880-17925/5-A**
**Matrix: Solid**
**Analysis Batch: 17866**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 17925**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 07:30 | 01/28/22 20:16 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 07:30 | 01/28/22 20:16 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 07:30 | 01/28/22 20:16 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 07:30 | 01/28/22 20:16 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 07:30 | 01/28/22 20:16 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 07:30 | 01/28/22 20:16 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *88* | | *70 - 130* | *01/28/22 07:30* | *01/28/22 20:16* | *1* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* | *01/28/22 07:30* | *01/28/22 20:16* | *1* |

**Lab Sample ID: MB 880-18031/5-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18031**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:07 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:07 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:07 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:07 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:07 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:07 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 15:07* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 15:07* | *1* |

**Lab Sample ID: LCS 880-18031/1-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18031**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.07770 | | mg/Kg | | 78 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.08209 | | mg/Kg | | 82 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.08461 | | mg/Kg | | 85 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.1669 | | mg/Kg | | 83 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.08330 | | mg/Kg | | 83 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *102* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *92* | | *70 - 130* |

**Lab Sample ID: LCSD 880-18031/2-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18031**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09311 | | mg/Kg | | 93 | 70 - 130 | 18 | 35 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: LCSD 880-18031/2-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 18042** — **Prep Batch: 18031**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | | | 0.100 | 0.09680 | | mg/Kg | | 97 | 70 - 130 | 16 | 35 |
| Ethylbenzene | | | 0.100 | 0.09568 | | mg/Kg | | 96 | 70 - 130 | 12 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1920 | | mg/Kg | | 96 | 70 - 130 | 14 | 35 |
| o-Xylene | | | 0.100 | 0.09552 | | mg/Kg | | 96 | 70 - 130 | 14 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* |

**Lab Sample ID: 880-10694-1 MS** — **Client Sample ID: PB 1 1'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 18042** — **Prep Batch: 18031**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 | 0.0998 | 0.04748 | F1 | mg/Kg | | 48 | 70 - 130 |
| Toluene | <0.00200 | U F1 | 0.0998 | 0.06082 | F1 | mg/Kg | | 61 | 70 - 130 |
| Ethylbenzene | <0.00200 | U F1 F2 | 0.0998 | 0.05176 | F1 | mg/Kg | | 52 | 70 - 130 |
| m,p-Xylenes | <0.00401 | U F1 | 0.200 | 0.1156 | F1 | mg/Kg | | 58 | 70 - 130 |
| o-Xylene | <0.00200 | U F1 | 0.0998 | 0.05475 | F1 | mg/Kg | | 55 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *93* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *73* | | *70 - 130* |

**Lab Sample ID: 880-10694-1 MSD** — **Client Sample ID: PB 1 1'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 18042** — **Prep Batch: 18031**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 | 0.0994 | 0.06281 | F1 | mg/Kg | | 63 | 70 - 130 | 28 | 35 |
| Toluene | <0.00200 | U F1 | 0.0994 | 0.07169 | | mg/Kg | | 72 | 70 - 130 | 16 | 35 |
| Ethylbenzene | <0.00200 | U F1 F2 | 0.0994 | 0.07978 | F2 | mg/Kg | | 80 | 70 - 130 | 43 | 35 |
| m,p-Xylenes | <0.00401 | U F1 | 0.199 | 0.1369 | F1 | mg/Kg | | 69 | 70 - 130 | 17 | 35 |
| o-Xylene | <0.00200 | U F1 | 0.0994 | 0.06334 | F1 | mg/Kg | | 64 | 70 - 130 | 15 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *112* | | *70 - 130* |

**Lab Sample ID: MB 880-18038/5-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 18042** — **Prep Batch: 18038**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 02:44 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 02:44 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 02:44 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 02:44 | 1 |

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# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: MB 880-18038/5-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18038**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 02:44 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 02:44 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 02:44* | *1* |
| *1,4-Difluorobenzene (Surr)* | *105* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 02:44* | *1* |

**Lab Sample ID: LCS 880-18038/1-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18038**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09099 | | mg/Kg | | 91 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09104 | | mg/Kg | | 91 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.08841 | | mg/Kg | | 88 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.1786 | | mg/Kg | | 89 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.09691 | | mg/Kg | | 97 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* |

**Lab Sample ID: LCSD 880-18038/2-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18038**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09006 | | mg/Kg | | 90 | 70 - 130 | 1 | 35 |
| Toluene | | | 0.100 | 0.09110 | | mg/Kg | | 91 | 70 - 130 | 0 | 35 |
| Ethylbenzene | | | 0.100 | 0.09285 | | mg/Kg | | 93 | 70 - 130 | 5 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1802 | | mg/Kg | | 90 | 70 - 130 | 1 | 35 |
| o-Xylene | | | 0.100 | 0.09242 | | mg/Kg | | 92 | 70 - 130 | 5 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* |

**Lab Sample ID: 880-10694-21 MS**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: PB 6 1'**
**Prep Type: Total/NA**
**Prep Batch: 18038**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U F1 F2 | 0.0992 | 0.04795 | F1 | mg/Kg | | 48 | 70 - 130 | | |
| Toluene | <0.00202 | U F1 | 0.0992 | 0.06138 | F1 | mg/Kg | | 62 | 70 - 130 | | |
| Ethylbenzene | <0.00202 | U F1 | 0.0992 | 0.06660 | F1 | mg/Kg | | 67 | 70 - 130 | | |
| m,p-Xylenes | <0.00403 | U F1 | 0.198 | 0.1062 | F1 | mg/Kg | | 54 | 70 - 130 | | |
| o-Xylene | <0.00202 | U F1 | 0.0992 | 0.05284 | F1 | mg/Kg | | 53 | 70 - 130 | | |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: 880-10694-21 MS**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: PB 6 1'**
**Prep Type: Total/NA**
**Prep Batch: 18038**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 158 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 125 | | 70 - 130 |

**Lab Sample ID: 880-10694-21 MSD**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: PB 6 1'**
**Prep Type: Total/NA**
**Prep Batch: 18038**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U F1 F2 | 0.100 | 0.07778 | F2 | mg/Kg | | 77 | 70 - 130 | 47 | 35 |
| Toluene | <0.00202 | U F1 | 0.100 | 0.08429 | | mg/Kg | | 84 | 70 - 130 | 31 | 35 |
| Ethylbenzene | <0.00202 | U F1 | 0.100 | 0.07725 | | mg/Kg | | 77 | 70 - 130 | 15 | 35 |
| m,p-Xylenes | <0.00403 | U F1 | 0.201 | 0.1487 | | mg/Kg | | 74 | 70 - 130 | 33 | 35 |
| o-Xylene | <0.00202 | U F1 | 0.100 | 0.07500 | | mg/Kg | | 75 | 70 - 130 | 35 | 35 |

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

**Lab Sample ID: MB 880-18039/5-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18039**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 14:20 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 14:20 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 14:20 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 14:20 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 14:20 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 14:20 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 115 | | 70 - 130 | 01/28/22 11:09 | 01/29/22 14:20 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 01/28/22 11:09 | 01/29/22 14:20 | 1 |

**Lab Sample ID: LCS 880-18039/1-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18039**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.07396 | | mg/Kg | | 74 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.08273 | | mg/Kg | | 83 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.07885 | | mg/Kg | | 79 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.1535 | | mg/Kg | | 77 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.07933 | | mg/Kg | | 79 | 70 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 127 | | 70 - 130 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: LCS 880-18039/1-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18039**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

**Lab Sample ID: LCSD 880-18039/2-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18039**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.08547 | | mg/Kg | | 85 | 70 - 130 | 14 | 35 |
| Toluene | | | 0.100 | 0.08682 | | mg/Kg | | 87 | 70 - 130 | 5 | 35 |
| Ethylbenzene | | | 0.100 | 0.08669 | | mg/Kg | | 87 | 70 - 130 | 9 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1622 | | mg/Kg | | 81 | 70 - 130 | 6 | 35 |
| o-Xylene | | | 0.100 | 0.08385 | | mg/Kg | | 84 | 70 - 130 | 6 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 |

**Lab Sample ID: 880-10694-A-41-A MS**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: 880-10694-A-41-A MS**
**Prep Type: Total/NA**
**Prep Batch: 18039**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U F1 | 0.0998 | 0.05572 | F1 | mg/Kg | | 56 | 70 - 130 | | |
| Toluene | <0.00202 | U F1 | 0.0998 | 0.05425 | F1 | mg/Kg | | 54 | 70 - 130 | | |
| Ethylbenzene | <0.00202 | U F1 | 0.0998 | 0.05876 | F1 | mg/Kg | | 59 | 70 - 130 | | |
| m,p-Xylenes | <0.00403 | U F1 | 0.200 | 0.1144 | F1 | mg/Kg | | 57 | 70 - 130 | | |
| o-Xylene | <0.00202 | U F1 | 0.0998 | 0.05728 | F1 | mg/Kg | | 57 | 70 - 130 | | |

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

**Lab Sample ID: 880-10694-A-41-B MSD**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: 880-10694-A-41-B MSD**
**Prep Type: Total/NA**
**Prep Batch: 18039**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U F1 | 0.0994 | 0.05628 | F1 | mg/Kg | | 57 | 70 - 130 | 1 | 35 |
| Toluene | <0.00202 | U F1 | 0.0994 | 0.05496 | F1 | mg/Kg | | 55 | 70 - 130 | 1 | 35 |
| Ethylbenzene | <0.00202 | U F1 | 0.0994 | 0.05818 | F1 | mg/Kg | | 59 | 70 - 130 | 1 | 35 |
| m,p-Xylenes | <0.00403 | U F1 | 0.199 | 0.1134 | F1 | mg/Kg | | 57 | 70 - 130 | 1 | 35 |
| o-Xylene | <0.00202 | U F1 | 0.0994 | 0.05775 | F1 | mg/Kg | | 58 | 70 - 130 | 1 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 133 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: MB 880-18045/5-A**
**Matrix: Solid**
**Analysis Batch: 17866**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18045**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 10:47 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 10:47 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 10:47 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 10:47 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 10:47 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 10:47 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *92* | | *70 - 130* | *01/28/22 13:19* | *01/29/22 10:47* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 13:19* | *01/29/22 10:47* | *1* |

**Lab Sample ID: LCS 880-18045/1-A**
**Matrix: Solid**
**Analysis Batch: 17866**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18045**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1180 | | mg/Kg | | 118 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09779 | | mg/Kg | | 98 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.09356 | | mg/Kg | | 94 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.2052 | | mg/Kg | | 103 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.1106 | | mg/Kg | | 111 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *132* | *S1+* | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* |

**Lab Sample ID: LCSD 880-18045/2-A**
**Matrix: Solid**
**Analysis Batch: 17866**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18045**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1214 | | mg/Kg | | 121 | 70 - 130 | 3 | 35 |
| Toluene | | | 0.100 | 0.09969 | | mg/Kg | | 100 | 70 - 130 | 2 | 35 |
| Ethylbenzene | | | 0.100 | 0.09654 | | mg/Kg | | 97 | 70 - 130 | 3 | 35 |
| m,p-Xylenes | | | 0.200 | 0.2110 | | mg/Kg | | 106 | 70 - 130 | 3 | 35 |
| o-Xylene | | | 0.100 | 0.1131 | | mg/Kg | | 113 | 70 - 130 | 2 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *139* | *S1+* | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* |

**Lab Sample ID: 880-10665-A-1-A MS**
**Matrix: Solid**
**Analysis Batch: 17866**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 18045**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U F1 F2 | 0.100 | 0.03423 | F1 | mg/Kg | | 34 | 70 - 130 | | |
| Toluene | <0.00199 | U F1 F2 | 0.100 | 0.02935 | F1 | mg/Kg | | 29 | 70 - 130 | | |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: 880-10665-A-1-A MS**
**Matrix: Solid**
**Analysis Batch: 17866**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 18045**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00199 | U F1 F2 | 0.100 | 0.03014 | F1 | mg/Kg | | 30 | 70 - 130 |
| m,p-Xylenes | <0.00398 | U F1 F2 | 0.201 | 0.06491 | F1 | mg/Kg | | 32 | 70 - 130 |
| o-Xylene | <0.00199 | U F1 F2 | 0.100 | 0.03365 | F1 | mg/Kg | | 34 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* |

**Lab Sample ID: 880-10665-A-1-B MSD**
**Matrix: Solid**
**Analysis Batch: 17866**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 18045**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U F1 F2 | 0.0990 | 0.09259 | F2 | mg/Kg | | 94 | 70 - 130 | 92 | 35 |
| Toluene | <0.00199 | U F1 F2 | 0.0990 | 0.07678 | F2 | mg/Kg | | 78 | 70 - 130 | 89 | 35 |
| Ethylbenzene | <0.00199 | U F1 F2 | 0.0990 | 0.07044 | F2 | mg/Kg | | 71 | 70 - 130 | 80 | 35 |
| m,p-Xylenes | <0.00398 | U F1 F2 | 0.198 | 0.1532 | F2 | mg/Kg | | 77 | 70 - 130 | 81 | 35 |
| o-Xylene | <0.00199 | U F1 F2 | 0.0990 | 0.08203 | F2 | mg/Kg | | 83 | 70 - 130 | 84 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *139* | *S1+* | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* |

**Lab Sample ID: MB 880-18099/5-A**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 10:45 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 10:45 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 10:45 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 10:45 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 10:45 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 10:45 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *128* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 10:45* | *1* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 10:45* | *1* |

**Lab Sample ID: LCS 880-18099/1-A**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.1021 | | mg/Kg | | 102 | 70 - 130 |
| Toluene | 0.100 | 0.1028 | | mg/Kg | | 103 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1043 | | mg/Kg | | 104 | 70 - 130 |
| m,p-Xylenes | 0.200 | 0.2093 | | mg/Kg | | 105 | 70 - 130 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: LCS 880-18099/1-A**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | | | 0.100 | 0.1006 | | mg/Kg | | 101 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *119* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* |

**Lab Sample ID: LCSD 880-18099/2-A**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09158 | | mg/Kg | | 92 | 70 - 130 | 11 | 35 |
| Toluene | | | 0.100 | 0.09843 | | mg/Kg | | 98 | 70 - 130 | 4 | 35 |
| Ethylbenzene | | | 0.100 | 0.1031 | | mg/Kg | | 103 | 70 - 130 | 1 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1937 | | mg/Kg | | 97 | 70 - 130 | 8 | 35 |
| o-Xylene | | | 0.100 | 0.09376 | | mg/Kg | | 94 | 70 - 130 | 7 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *120* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* |

**Lab Sample ID: 880-10694-51 MS**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: S2 3'**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.0992 | 0.1027 | | mg/Kg | | 104 | 70 - 130 | | |
| Toluene | <0.00199 | U | 0.0992 | 0.1031 | | mg/Kg | | 104 | 70 - 130 | | |
| Ethylbenzene | <0.00199 | U | 0.0992 | 0.1033 | | mg/Kg | | 104 | 70 - 130 | | |
| m,p-Xylenes | <0.00398 | U | 0.198 | 0.1980 | | mg/Kg | | 100 | 70 - 130 | | |
| o-Xylene | <0.00199 | U | 0.0992 | 0.1037 | | mg/Kg | | 105 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *129* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *112* | | *70 - 130* |

**Lab Sample ID: 880-10694-51 MSD**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: S2 3'**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.0992 | 0.09491 | | mg/Kg | | 96 | 70 - 130 | 8 | 35 |
| Toluene | <0.00199 | U | 0.0992 | 0.09611 | | mg/Kg | | 97 | 70 - 130 | 7 | 35 |
| Ethylbenzene | <0.00199 | U | 0.0992 | 0.1006 | | mg/Kg | | 101 | 70 - 130 | 3 | 35 |
| m,p-Xylenes | <0.00398 | U | 0.198 | 0.1893 | | mg/Kg | | 95 | 70 - 130 | 4 | 35 |
| o-Xylene | <0.00199 | U | 0.0992 | 0.09620 | | mg/Kg | | 97 | 70 - 130 | 7 | 35 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: 880-10694-51 MSD**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: S2 3'**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 121 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 |

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

**Lab Sample ID: MB 880-18166/1-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18166**

| 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 | | 01/31/22 12:13 | 02/02/22 11:41 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 11:41 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 11:41 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane (Surr) | 84 | | 70 - 130 | 01/31/22 12:13 | 02/02/22 11:41 | 1 |
| o-Terphenyl (Surr) | 83 | | 70 - 130 | 01/31/22 12:13 | 02/02/22 11:41 | 1 |

**Lab Sample ID: LCS 880-18166/2-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18166**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 698.7 | | mg/Kg | | 70 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 887.6 | | mg/Kg | | 89 | 70 - 130 | | |

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

**Lab Sample ID: LCSD 880-18166/3-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18166**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 709.4 | | mg/Kg | | 71 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 929.6 | | mg/Kg | | 93 | 70 - 130 | 5 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 81 | | 70 - 130 |
| o-Terphenyl (Surr) | 85 | | 70 - 130 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: 880-10694-A-41-E MS**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: 880-10694-A-41-E MS**
**Prep Type: Total/NA**
**Prep Batch: 18166**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 761.6 | | mg/Kg | | 74 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 908.1 | | mg/Kg | | 91 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *74* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *71* | | *70 - 130* |

**Lab Sample ID: 880-10694-A-41-F MSD**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: 880-10694-A-41-F MSD**
**Prep Type: Total/NA**
**Prep Batch: 18166**

| 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 | 793.9 | | mg/Kg | | 78 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 984.5 | | mg/Kg | | 99 | 70 - 130 | 8 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *74* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *68* | *S1-* | *70 - 130* |

**Lab Sample ID: MB 880-18188/1-A**
**Matrix: Solid**
**Analysis Batch: 18337**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18188**

| 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 | | 01/31/22 14:58 | 02/02/22 11:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 11:37 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 11:37 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *63* | *S1-* | *70 - 130* | *01/31/22 14:58* | *02/02/22 11:37* | *1* |
| *o-Terphenyl (Surr)* | *74* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 11:37* | *1* |

**Lab Sample ID: LCS 880-18188/2-A**
**Matrix: Solid**
**Analysis Batch: 18337**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18188**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 738.9 | | mg/Kg | | 74 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 931.1 | | mg/Kg | | 93 | 70 - 130 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: LCS 880-18188/2-A**
**Matrix: Solid**
**Analysis Batch: 18337**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18188**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 79 | | 70 - 130 |
| o-Terphenyl (Surr) | 84 | | 70 - 130 |

**Lab Sample ID: LCSD 880-18188/3-A**
**Matrix: Solid**
**Analysis Batch: 18337**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18188**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 839.7 | | mg/Kg | | 84 | 70 - 130 | 13 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1042 | | mg/Kg | | 104 | 70 - 130 | 11 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 90 | | 70 - 130 |
| o-Terphenyl (Surr) | 90 | | 70 - 130 |

**Lab Sample ID: 880-10694-1 MS**
**Matrix: Solid**
**Analysis Batch: 18337**

**Client Sample ID: PB 1 1'**
**Prep Type: Total/NA**
**Prep Batch: 18188**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 834.7 | | mg/Kg | | 84 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 992.2 | | mg/Kg | | 97 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 60 | S1- | 70 - 130 |
| o-Terphenyl (Surr) | 59 | S1- | 70 - 130 |

**Lab Sample ID: 880-10694-1 MSD**
**Matrix: Solid**
**Analysis Batch: 18337**

**Client Sample ID: PB 1 1'**
**Prep Type: Total/NA**
**Prep Batch: 18188**

| 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 | 852.3 | | mg/Kg | | 85 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 1020 | | mg/Kg | | 100 | 70 - 130 | 3 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 61 | S1- | 70 - 130 |
| o-Terphenyl (Surr) | 61 | S1- | 70 - 130 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: MB 880-18189/1-A**
**Matrix: Solid**
**Analysis Batch: 18455**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18189**

| 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 | | 01/31/22 15:02 | 02/03/22 09:33 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 09:33 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 09:33 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *82* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 09:33* | *1* |
| *o-Terphenyl (Surr)* | *96* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 09:33* | *1* |

**Lab Sample ID: LCS 880-18189/2-A**
**Matrix: Solid**
**Analysis Batch: 18455**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18189**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 824.6 | | mg/Kg | | 82 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1114 | | mg/Kg | | 111 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *96* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *98* | | *70 - 130* |

**Lab Sample ID: LCSD 880-18189/3-A**
**Matrix: Solid**
**Analysis Batch: 18455**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18189**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 911.4 | | mg/Kg | | 91 | 70 - 130 | 10 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1212 | | mg/Kg | | 121 | 70 - 130 | 8 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *100* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *103* | | *70 - 130* |

**Lab Sample ID: 880-10694-21 MS**
**Matrix: Solid**
**Analysis Batch: 18455**

**Client Sample ID: PB 6 1'**
**Prep Type: Total/NA**
**Prep Batch: 18189**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 1024 | | mg/Kg | | 103 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 1242 | | mg/Kg | | 124 | 70 - 130 | | |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: 880-10694-21 MS**
**Matrix: Solid**
**Analysis Batch: 18455**

**Client Sample ID: PB 6 1'**
**Prep Type: Total/NA**
**Prep Batch: 18189**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 72 | | 70 - 130 |
| o-Terphenyl (Surr) | 70 | | 70 - 130 |

**Lab Sample ID: 880-10694-21 MSD**
**Matrix: Solid**
**Analysis Batch: 18455**

**Client Sample ID: PB 6 1'**
**Prep Type: Total/NA**
**Prep Batch: 18189**

| 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 | 1036 | | mg/Kg | | 104 | 70 - 130 | 1 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 1233 | | mg/Kg | | 123 | 70 - 130 | 1 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 72 | | 70 - 130 |
| o-Terphenyl (Surr) | 68 | S1- | 70 - 130 |

**Lab Sample ID: MB 880-18190/1-A**
**Matrix: Solid**
**Analysis Batch: 18339**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18190**

| 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 | | 01/31/22 15:06 | 02/02/22 11:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 11:37 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 11:37 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane (Surr) | 74 | | 70 - 130 | 01/31/22 15:06 | 02/02/22 11:37 | 1 |
| o-Terphenyl (Surr) | 82 | | 70 - 130 | 01/31/22 15:06 | 02/02/22 11:37 | 1 |

**Lab Sample ID: LCS 880-18190/2-A**
**Matrix: Solid**
**Analysis Batch: 18339**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18190**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 870.1 | | mg/Kg | | 87 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1097 | | mg/Kg | | 110 | 70 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 94 | | 70 - 130 |
| o-Terphenyl (Surr) | 96 | | 70 - 130 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: LCSD 880-18190/3-A**
**Matrix: Solid**
**Analysis Batch: 18339**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18190**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 842.4 | | mg/Kg | | 84 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1061 | | mg/Kg | | 106 | 70 - 130 | 3 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *92* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *92* | | *70 - 130* |

**Lab Sample ID: 880-10698-A-1-C MS**
**Matrix: Solid**
**Analysis Batch: 18339**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 18190**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 776.3 | | mg/Kg | | 78 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 887.8 | | mg/Kg | | 87 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *66* | *S1-* | *70 - 130* |
| *o-Terphenyl (Surr)* | *64* | *S1-* | *70 - 130* |

**Lab Sample ID: 880-10698-A-1-D MSD**
**Matrix: Solid**
**Analysis Batch: 18339**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 18190**

| 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 | 750.2 | | mg/Kg | | 75 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 924.5 | | mg/Kg | | 91 | 70 - 130 | 4 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *66* | *S1-* | *70 - 130* |
| *o-Terphenyl (Surr)* | *66* | *S1-* | *70 - 130* |

**Lab Sample ID: MB 880-18336/1-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18336**

| 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 | | 02/02/22 08:25 | 02/02/22 21:25 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/02/22 21:25 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/02/22 21:25 | 1 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: MB 880-18336/1-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18336**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane (Surr) | 85 | | 70 - 130 | 02/02/22 08:25 | 02/02/22 21:25 | 1 |
| o-Terphenyl (Surr) | 86 | | 70 - 130 | 02/02/22 08:25 | 02/02/22 21:25 | 1 |

**Lab Sample ID: LCS 880-18336/2-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18336**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 837.3 | | mg/Kg | | 84 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1106 | | mg/Kg | | 111 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 78 | | 70 - 130 |
| o-Terphenyl (Surr) | 82 | | 70 - 130 |

**Lab Sample ID: LCSD 880-18336/3-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18336**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 787.0 | | mg/Kg | | 79 | 70 - 130 | 6 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1036 | | mg/Kg | | 104 | 70 - 130 | 7 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 78 | | 70 - 130 |
| o-Terphenyl (Surr) | 82 | | 70 - 130 |

**Lab Sample ID: 880-10735-B-1-F MS**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 18336**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 822.9 | | mg/Kg | | 82 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 986.8 | | mg/Kg | | 99 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 82 | | 70 - 130 |
| o-Terphenyl (Surr) | 79 | | 70 - 130 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

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

**Lab Sample ID: 880-10735-B-1-G MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 18343** — **Prep Batch: 18336**

| 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 | 819.5 | | mg/Kg | | 82 | 70 - 130 | 0 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 1004 | | mg/Kg | | 101 | 70 - 130 | 2 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *78* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *81* | | *70 - 130* |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-18208/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 18287**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 02/03/22 00:17 | 1 |

**Lab Sample ID: LCS 880-18208/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 18287**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 266.4 | | mg/Kg | | 107 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-18208/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 18287**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 270.3 | | mg/Kg | | 108 | 90 - 110 | 1 | 20 |

**Lab Sample ID: 880-10694-58 MS** — **Client Sample ID: S8 1'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 18287**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 48.8 | | 250 | 323.6 | | mg/Kg | | 110 | 90 - 110 | | |

**Lab Sample ID: 880-10694-58 MSD** — **Client Sample ID: S8 1'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 18287**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 48.8 | | 250 | 281.5 | | mg/Kg | | 93 | 90 - 110 | 14 | 20 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: MB 880-18210/1-A**
**Matrix: Solid**
**Analysis Batch: 18408**

**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 | | | 02/02/22 18:23 | 1 |

**Lab Sample ID: LCS 880-18210/2-A**
**Matrix: Solid**
**Analysis Batch: 18408**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 269.7 | | mg/Kg | | 108 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-18210/3-A**
**Matrix: Solid**
**Analysis Batch: 18408**

**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 | 269.9 | | mg/Kg | | 108 | 90 - 110 | 0 | 20 |

**Lab Sample ID: 880-10694-10 MS**
**Matrix: Solid**
**Analysis Batch: 18408**

**Client Sample ID: PB 3 3'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 210 | | 250 | 473.7 | | mg/Kg | | 105 | 90 - 110 | | |

**Lab Sample ID: 880-10694-10 MSD**
**Matrix: Solid**
**Analysis Batch: 18408**

**Client Sample ID: PB 3 3'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 210 | | 250 | 471.2 | | mg/Kg | | 104 | 90 - 110 | 1 | 20 |

**Lab Sample ID: MB 880-18211/1-A**
**Matrix: Solid**
**Analysis Batch: 18409**

**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 | | | 02/02/22 22:48 | 1 |

**Lab Sample ID: LCS 880-18211/2-A**
**Matrix: Solid**
**Analysis Batch: 18409**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 258.5 | | mg/Kg | | 103 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-18211/3-A**
**Matrix: Solid**
**Analysis Batch: 18409**

**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 | 258.7 | | mg/Kg | | 103 | 90 - 110 | 0 | 20 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: 880-10694-19 MS**
**Matrix: Solid**
**Analysis Batch: 18409**

**Client Sample ID: PB 5 5'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 8.55 | | 248 | 270.2 | | mg/Kg | | 106 | 90 - 110 |

**Lab Sample ID: 880-10694-19 MSD**
**Matrix: Solid**
**Analysis Batch: 18409**

**Client Sample ID: PB 5 5'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 8.55 | | 248 | 266.6 | | mg/Kg | | 104 | 90 - 110 | 1 | 20 |

**Lab Sample ID: 880-10694-29 MS**
**Matrix: Solid**
**Analysis Batch: 18409**

**Client Sample ID: PB 8 1'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 16700 | | 5040 | 21590 | | mg/Kg | | 97 | 90 - 110 |

**Lab Sample ID: 880-10694-29 MSD**
**Matrix: Solid**
**Analysis Batch: 18409**

**Client Sample ID: PB 8 1'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 16700 | | 5040 | 21780 | | mg/Kg | | 101 | 90 - 110 | 1 | 20 |

**Lab Sample ID: MB 880-18212/1-A**
**Matrix: Solid**
**Analysis Batch: 18519**

**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 | | | 02/03/22 11:07 | 1 |

**Lab Sample ID: LCS 880-18212/2-A**
**Matrix: Solid**
**Analysis Batch: 18519**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 250 | 256.0 | | mg/Kg | | 102 | 90 - 110 |

**Lab Sample ID: LCSD 880-18212/3-A**
**Matrix: Solid**
**Analysis Batch: 18519**

**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: 880-10694-39 MS**
**Matrix: Solid**
**Analysis Batch: 18519**

**Client Sample ID: PB 10 5'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 244 | F1 | 250 | 531.5 | F1 | mg/Kg | | 115 | 90 - 110 |

# QC Sample Results

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: 880-10694-39 MSD**
**Matrix: Solid**
**Analysis Batch: 18519**

**Client Sample ID: PB 10 5'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 244 | F1 | 250 | 524.6 | F1 | mg/Kg | | 112 | 90 - 110 | 1 | 20 |

**Lab Sample ID: 880-10694-49 MS**
**Matrix: Solid**
**Analysis Batch: 18519**

**Client Sample ID: S1 12'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1010 | F1 | 2530 | 4007 | F1 | mg/Kg | | 119 | 90 - 110 |

**Lab Sample ID: 880-10694-49 MSD**
**Matrix: Solid**
**Analysis Batch: 18519**

**Client Sample ID: S1 12'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1010 | F1 | 2530 | 3955 | F1 | mg/Kg | | 117 | 90 - 110 | 1 | 20 |

**Lab Sample ID: MB 880-18214/1-A**
**Matrix: Solid**
**Analysis Batch: 18520**

**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 | | | 02/03/22 13:00 | 1 |

**Lab Sample ID: LCS 880-18214/2-A**
**Matrix: Solid**
**Analysis Batch: 18520**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 250 | 254.8 | | mg/Kg | | 102 | 90 - 110 |

**Lab Sample ID: LCSD 880-18214/3-A**
**Matrix: Solid**
**Analysis Batch: 18520**

**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 | 249.1 | | mg/Kg | | 100 | 90 - 110 | 2 | 20 |

**Lab Sample ID: 880-10694-1 MS**
**Matrix: Solid**
**Analysis Batch: 18520**

**Client Sample ID: PB 1 1'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 21.9 | | 252 | 282.3 | | mg/Kg | | 103 | 90 - 110 |

**Lab Sample ID: 880-10694-1 MSD**
**Matrix: Solid**
**Analysis Batch: 18520**

**Client Sample ID: PB 1 1'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 21.9 | | 252 | 277.2 | | mg/Kg | | 101 | 90 - 110 | 2 | 20 |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## GC VOA

### Analysis Batch: 17866

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-61 | S8 10' | Total/NA | Solid | 8021B | 18045 |
| 880-10694-62 | S9 1' | Total/NA | Solid | 8021B | 18045 |
| 880-10694-63 | S9 3' | Total/NA | Solid | 8021B | 18045 |
| 880-10694-64 | S9 5' | Total/NA | Solid | 8021B | 18045 |
| 880-10694-65 | S9 10' | Total/NA | Solid | 8021B | 18045 |
| MB 880-17925/5-A | Method Blank | Total/NA | Solid | 8021B | 17925 |
| MB 880-18045/5-A | Method Blank | Total/NA | Solid | 8021B | 18045 |
| LCS 880-18045/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 18045 |
| LCSD 880-18045/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 18045 |
| 880-10665-A-1-A MS | Matrix Spike | Total/NA | Solid | 8021B | 18045 |
| 880-10665-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 18045 |

### Prep Batch: 17925

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-17925/5-A | Method Blank | Total/NA | Solid | 5035 | |

### Prep Batch: 18031

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Total/NA | Solid | 5035 | |
| 880-10694-2 | PB 1 3' | Total/NA | Solid | 5035 | |
| 880-10694-3 | PB 1 5' | Total/NA | Solid | 5035 | |
| 880-10694-4 | PB 1 9' | Total/NA | Solid | 5035 | |
| 880-10694-5 | PB 2 1' | Total/NA | Solid | 5035 | |
| 880-10694-6 | PB 2 3' | Total/NA | Solid | 5035 | |
| 880-10694-7 | PB 2 5' | Total/NA | Solid | 5035 | |
| 880-10694-8 | PB 2 8' | Total/NA | Solid | 5035 | |
| 880-10694-9 | PB 3 1' | Total/NA | Solid | 5035 | |
| 880-10694-10 | PB 3 3' | Total/NA | Solid | 5035 | |
| 880-10694-11 | PB 3 5' | Total/NA | Solid | 5035 | |
| 880-10694-12 | PB 3 9' | Total/NA | Solid | 5035 | |
| 880-10694-13 | PB 4 1' | Total/NA | Solid | 5035 | |
| 880-10694-14 | PB 4 3' | Total/NA | Solid | 5035 | |
| 880-10694-15 | PB 4 5' | Total/NA | Solid | 5035 | |
| 880-10694-16 | PB 4 10' | Total/NA | Solid | 5035 | |
| 880-10694-17 | PB 5 1' | Total/NA | Solid | 5035 | |
| 880-10694-18 | PB 5 3' | Total/NA | Solid | 5035 | |
| 880-10694-19 | PB 5 5' | Total/NA | Solid | 5035 | |
| 880-10694-20 | PB 5 10' | Total/NA | Solid | 5035 | |
| MB 880-18031/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-18031/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-18031/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-10694-1 MS | PB 1 1' | Total/NA | Solid | 5035 | |
| 880-10694-1 MSD | PB 1 1' | Total/NA | Solid | 5035 | |

### Prep Batch: 18038

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-21 | PB 6 1' | Total/NA | Solid | 5035 | |
| 880-10694-22 | PB 6 3' | Total/NA | Solid | 5035 | |
| 880-10694-23 | PB 6 5' | Total/NA | Solid | 5035 | |
| 880-10694-24 | PB 6 10' | Total/NA | Solid | 5035 | |
| 880-10694-25 | PB 7 1' | Total/NA | Solid | 5035 | |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## GC VOA (Continued)

### Prep Batch: 18038 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-26 | PB 7 3' | Total/NA | Solid | 5035 | |
| 880-10694-27 | PB 7 5' | Total/NA | Solid | 5035 | |
| 880-10694-28 | PB 7 10' | Total/NA | Solid | 5035 | |
| 880-10694-29 | PB 8 1' | Total/NA | Solid | 5035 | |
| 880-10694-30 | PB 8 3' | Total/NA | Solid | 5035 | |
| 880-10694-31 | PB 8 5' | Total/NA | Solid | 5035 | |
| 880-10694-32 | PB 8 10' | Total/NA | Solid | 5035 | |
| 880-10694-33 | PB 9 1' | Total/NA | Solid | 5035 | |
| 880-10694-34 | PB 9 3' | Total/NA | Solid | 5035 | |
| 880-10694-35 | PB 9 5' | Total/NA | Solid | 5035 | |
| 880-10694-36 | PB 9 10' | Total/NA | Solid | 5035 | |
| 880-10694-37 | PB 10 1' | Total/NA | Solid | 5035 | |
| 880-10694-38 | PB 10 3' | Total/NA | Solid | 5035 | |
| 880-10694-39 | PB 10 5' | Total/NA | Solid | 5035 | |
| 880-10694-40 | PB 10 10' | Total/NA | Solid | 5035 | |
| MB 880-18038/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-18038/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-18038/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-10694-21 MS | PB 6 1' | Total/NA | Solid | 5035 | |
| 880-10694-21 MSD | PB 6 1' | Total/NA | Solid | 5035 | |

### Prep Batch: 18039

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-45 | S1 1' | Total/NA | Solid | 5035 | |
| 880-10694-46 | S1 3' | Total/NA | Solid | 5035 | |
| 880-10694-47 | S1 5' | Total/NA | Solid | 5035 | |
| 880-10694-48 | S1 9' | Total/NA | Solid | 5035 | |
| 880-10694-49 | S1 12' | Total/NA | Solid | 5035 | |
| 880-10694-50 | S2 1' | Total/NA | Solid | 5035 | |
| MB 880-18039/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-18039/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-18039/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-10694-A-41-A MS | 880-10694-A-41-A MS | Total/NA | Solid | 5035 | |
| 880-10694-A-41-B MSD | 880-10694-A-41-B MSD | Total/NA | Solid | 5035 | |

### Analysis Batch: 18042

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-2 | PB 1 3' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-3 | PB 1 5' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-4 | PB 1 9' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-5 | PB 2 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-6 | PB 2 3' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-7 | PB 2 5' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-8 | PB 2 8' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-9 | PB 3 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-10 | PB 3 3' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-11 | PB 3 5' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-12 | PB 3 9' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-13 | PB 4 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-14 | PB 4 3' | Total/NA | Solid | 8021B | 18031 |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## GC VOA (Continued)

### Analysis Batch: 18042 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-15 | PB 4 5' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-16 | PB 4 10' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-17 | PB 5 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-18 | PB 5 3' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-19 | PB 5 5' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-20 | PB 5 10' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-21 | PB 6 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-22 | PB 6 3' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-23 | PB 6 5' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-24 | PB 6 10' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-25 | PB 7 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-26 | PB 7 3' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-27 | PB 7 5' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-28 | PB 7 10' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-29 | PB 8 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-30 | PB 8 3' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-31 | PB 8 5' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-32 | PB 8 10' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-33 | PB 9 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-34 | PB 9 3' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-35 | PB 9 5' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-36 | PB 9 10' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-37 | PB 10 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-38 | PB 10 3' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-39 | PB 10 5' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-40 | PB 10 10' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-45 | S1 1' | Total/NA | Solid | 8021B | 18039 |
| 880-10694-46 | S1 3' | Total/NA | Solid | 8021B | 18039 |
| 880-10694-47 | S1 5' | Total/NA | Solid | 8021B | 18039 |
| 880-10694-48 | S1 9' | Total/NA | Solid | 8021B | 18039 |
| 880-10694-49 | S1 12' | Total/NA | Solid | 8021B | 18039 |
| 880-10694-50 | S2 1' | Total/NA | Solid | 8021B | 18039 |
| MB 880-18031/5-A | Method Blank | Total/NA | Solid | 8021B | 18031 |
| MB 880-18038/5-A | Method Blank | Total/NA | Solid | 8021B | 18038 |
| MB 880-18039/5-A | Method Blank | Total/NA | Solid | 8021B | 18039 |
| LCS 880-18031/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 18031 |
| LCS 880-18038/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 18038 |
| LCS 880-18039/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 18039 |
| LCSD 880-18031/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 18031 |
| LCSD 880-18038/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 18038 |
| LCSD 880-18039/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 18039 |
| 880-10694-1 MS | PB 1 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-1 MSD | PB 1 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-21 MS | PB 6 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-21 MSD | PB 6 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-A-41-A MS | 880-10694-A-41-A MS | Total/NA | Solid | 8021B | 18039 |
| 880-10694-A-41-B MSD | 880-10694-A-41-B MSD | Total/NA | Solid | 8021B | 18039 |

### Prep Batch: 18045

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-61 | S8 10' | Total/NA | Solid | 5035 | |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## GC VOA (Continued)

### Prep Batch: 18045 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-62 | S9 1' | Total/NA | Solid | 5035 | |
| 880-10694-63 | S9 3' | Total/NA | Solid | 5035 | |
| 880-10694-64 | S9 5' | Total/NA | Solid | 5035 | |
| 880-10694-65 | S9 10' | Total/NA | Solid | 5035 | |
| MB 880-18045/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-18045/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-18045/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-10665-A-1-A MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-10665-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

### Prep Batch: 18099

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-51 | S2 3' | Total/NA | Solid | 5035 | |
| 880-10694-52 | S2 5' | Total/NA | Solid | 5035 | |
| 880-10694-53 | S2 9' | Total/NA | Solid | 5035 | |
| 880-10694-54 | S7 1' | Total/NA | Solid | 5035 | |
| 880-10694-55 | S7 3' | Total/NA | Solid | 5035 | |
| 880-10694-56 | S7 5' | Total/NA | Solid | 5035 | |
| 880-10694-57 | S7 10' | Total/NA | Solid | 5035 | |
| 880-10694-58 | S8 1' | Total/NA | Solid | 5035 | |
| 880-10694-59 | S8 3' | Total/NA | Solid | 5035 | |
| 880-10694-60 | S8 5' | Total/NA | Solid | 5035 | |
| MB 880-18099/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-18099/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-18099/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-10694-51 MS | S2 3' | Total/NA | Solid | 5035 | |
| 880-10694-51 MSD | S2 3' | Total/NA | Solid | 5035 | |

### Analysis Batch: 18101

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-51 | S2 3' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-52 | S2 5' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-53 | S2 9' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-54 | S7 1' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-55 | S7 3' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-56 | S7 5' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-57 | S7 10' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-58 | S8 1' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-59 | S8 3' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-60 | S8 5' | Total/NA | Solid | 8021B | 18099 |
| MB 880-18099/5-A | Method Blank | Total/NA | Solid | 8021B | 18099 |
| LCS 880-18099/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 18099 |
| LCSD 880-18099/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 18099 |
| 880-10694-51 MS | S2 3' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-51 MSD | S2 3' | Total/NA | Solid | 8021B | 18099 |

### Analysis Batch: 18149

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-2 | PB 1 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-3 | PB 1 5' | Total/NA | Solid | Total BTEX | |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## GC VOA (Continued)

### Analysis Batch: 18149 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-4 | PB 1 9' | Total/NA | Solid | Total BTEX | |
| 880-10694-5 | PB 2 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-6 | PB 2 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-7 | PB 2 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-8 | PB 2 8' | Total/NA | Solid | Total BTEX | |
| 880-10694-9 | PB 3 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-10 | PB 3 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-11 | PB 3 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-12 | PB 3 9' | Total/NA | Solid | Total BTEX | |
| 880-10694-13 | PB 4 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-14 | PB 4 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-15 | PB 4 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-16 | PB 4 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-17 | PB 5 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-18 | PB 5 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-19 | PB 5 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-20 | PB 5 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-21 | PB 6 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-22 | PB 6 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-23 | PB 6 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-24 | PB 6 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-25 | PB 7 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-26 | PB 7 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-27 | PB 7 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-28 | PB 7 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-29 | PB 8 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-30 | PB 8 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-31 | PB 8 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-32 | PB 8 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-33 | PB 9 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-34 | PB 9 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-35 | PB 9 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-36 | PB 9 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-37 | PB 10 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-38 | PB 10 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-39 | PB 10 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-40 | PB 10 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-45 | S1 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-46 | S1 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-47 | S1 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-48 | S1 9' | Total/NA | Solid | Total BTEX | |
| 880-10694-49 | S1 12' | Total/NA | Solid | Total BTEX | |
| 880-10694-50 | S2 1' | Total/NA | Solid | Total BTEX | |

### Analysis Batch: 18428

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-51 | S2 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-52 | S2 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-53 | S2 9' | Total/NA | Solid | Total BTEX | |
| 880-10694-54 | S7 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-55 | S7 3' | Total/NA | Solid | Total BTEX | |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## GC VOA (Continued)

### Analysis Batch: 18428 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-56 | S7 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-57 | S7 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-58 | S8 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-59 | S8 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-60 | S8 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-61 | S8 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-62 | S9 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-63 | S9 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-64 | S9 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-65 | S9 10' | Total/NA | Solid | Total BTEX | |

## GC Semi VOA

### Prep Batch: 18166

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-45 | S1 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-46 | S1 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-47 | S1 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-48 | S1 9' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-49 | S1 12' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-50 | S2 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-51 | S2 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-52 | S2 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-53 | S2 9' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-54 | S7 1' | Total/NA | Solid | 8015NM Prep | |
| MB 880-18166/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-18166/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-18166/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-10694-A-41-E MS | 880-10694-A-41-E MS | Total/NA | Solid | 8015NM Prep | |
| 880-10694-A-41-F MSD | 880-10694-A-41-F MSD | Total/NA | Solid | 8015NM Prep | |

### Prep Batch: 18188

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-2 | PB 1 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-3 | PB 1 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-4 | PB 1 9' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-5 | PB 2 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-6 | PB 2 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-7 | PB 2 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-8 | PB 2 8' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-9 | PB 3 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-10 | PB 3 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-11 | PB 3 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-12 | PB 3 9' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-13 | PB 4 1' | Total/NA | Solid | 8015NM Prep | |
| MB 880-18188/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-18188/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-18188/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-10694-1 MS | PB 1 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-1 MSD | PB 1 1' | Total/NA | Solid | 8015NM Prep | |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## GC Semi VOA

### Prep Batch: 18189

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-21 | PB 6 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-22 | PB 6 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-23 | PB 6 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-24 | PB 6 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-25 | PB 7 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-26 | PB 7 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-27 | PB 7 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-28 | PB 7 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-29 | PB 8 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-30 | PB 8 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-31 | PB 8 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-32 | PB 8 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-33 | PB 9 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-34 | PB 9 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-35 | PB 9 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-36 | PB 9 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-37 | PB 10 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-38 | PB 10 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-39 | PB 10 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-40 | PB 10 10' | Total/NA | Solid | 8015NM Prep | |
| MB 880-18189/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-18189/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-18189/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-10694-21 MS | PB 6 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-21 MSD | PB 6 1' | Total/NA | Solid | 8015NM Prep | |

### Prep Batch: 18190

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-61 | S8 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-62 | S9 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-63 | S9 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-64 | S9 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-65 | S9 10' | Total/NA | Solid | 8015NM Prep | |
| MB 880-18190/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-18190/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-18190/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-10698-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-10698-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

### Prep Batch: 18336

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-14 | PB 4 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-15 | PB 4 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-16 | PB 4 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-17 | PB 5 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-18 | PB 5 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-19 | PB 5 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-20 | PB 5 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-55 | S7 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-56 | S7 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-57 | S7 10' | Total/NA | Solid | 8015NM Prep | |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## GC Semi VOA (Continued)

### Prep Batch: 18336 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-58 | S8 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-59 | S8 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-60 | S8 5' | Total/NA | Solid | 8015NM Prep | |
| MB 880-18336/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-18336/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-18336/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-10735-B-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-10735-B-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 18337

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-2 | PB 1 3' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-3 | PB 1 5' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-4 | PB 1 9' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-5 | PB 2 1' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-6 | PB 2 3' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-7 | PB 2 5' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-8 | PB 2 8' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-9 | PB 3 1' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-10 | PB 3 3' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-11 | PB 3 5' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-12 | PB 3 9' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-13 | PB 4 1' | Total/NA | Solid | 8015B NM | 18188 |
| MB 880-18188/1-A | Method Blank | Total/NA | Solid | 8015B NM | 18188 |
| LCS 880-18188/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 18188 |
| LCSD 880-18188/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-1 MS | PB 1 1' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-1 MSD | PB 1 1' | Total/NA | Solid | 8015B NM | 18188 |

### Analysis Batch: 18339

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-61 | S8 10' | Total/NA | Solid | 8015B NM | 18190 |
| 880-10694-62 | S9 1' | Total/NA | Solid | 8015B NM | 18190 |
| 880-10694-63 | S9 3' | Total/NA | Solid | 8015B NM | 18190 |
| 880-10694-64 | S9 5' | Total/NA | Solid | 8015B NM | 18190 |
| 880-10694-65 | S9 10' | Total/NA | Solid | 8015B NM | 18190 |
| MB 880-18190/1-A | Method Blank | Total/NA | Solid | 8015B NM | 18190 |
| LCS 880-18190/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 18190 |
| LCSD 880-18190/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 18190 |
| 880-10698-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 18190 |
| 880-10698-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 18190 |

### Analysis Batch: 18343

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-14 | PB 4 3' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-15 | PB 4 5' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-16 | PB 4 10' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-17 | PB 5 1' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-18 | PB 5 3' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-19 | PB 5 5' | Total/NA | Solid | 8015B NM | 18336 |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## GC Semi VOA (Continued)

### Analysis Batch: 18343 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-20 | PB 5 10' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-45 | S1 1' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-46 | S1 3' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-47 | S1 5' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-48 | S1 9' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-49 | S1 12' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-50 | S2 1' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-51 | S2 3' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-52 | S2 5' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-53 | S2 9' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-54 | S7 1' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-55 | S7 3' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-56 | S7 5' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-57 | S7 10' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-58 | S8 1' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-59 | S8 3' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-60 | S8 5' | Total/NA | Solid | 8015B NM | 18336 |
| MB 880-18166/1-A | Method Blank | Total/NA | Solid | 8015B NM | 18166 |
| MB 880-18336/1-A | Method Blank | Total/NA | Solid | 8015B NM | 18336 |
| LCS 880-18166/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 18166 |
| LCS 880-18336/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 18336 |
| LCSD 880-18166/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 18166 |
| LCSD 880-18336/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-A-41-E MS | 880-10694-A-41-E MS | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-A-41-F MSD | 880-10694-A-41-F MSD | Total/NA | Solid | 8015B NM | 18166 |
| 880-10735-B-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 18336 |
| 880-10735-B-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 18336 |

### Analysis Batch: 18413

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-2 | PB 1 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-3 | PB 1 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-4 | PB 1 9' | Total/NA | Solid | 8015 NM | |
| 880-10694-5 | PB 2 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-6 | PB 2 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-7 | PB 2 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-8 | PB 2 8' | Total/NA | Solid | 8015 NM | |
| 880-10694-9 | PB 3 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-10 | PB 3 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-11 | PB 3 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-12 | PB 3 9' | Total/NA | Solid | 8015 NM | |
| 880-10694-13 | PB 4 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-14 | PB 4 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-15 | PB 4 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-16 | PB 4 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-17 | PB 5 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-18 | PB 5 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-19 | PB 5 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-20 | PB 5 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-21 | PB 6 1' | Total/NA | Solid | 8015 NM | |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## GC Semi VOA (Continued)

### Analysis Batch: 18413 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-22 | PB 6 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-23 | PB 6 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-24 | PB 6 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-25 | PB 7 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-26 | PB 7 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-27 | PB 7 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-28 | PB 7 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-29 | PB 8 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-30 | PB 8 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-31 | PB 8 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-32 | PB 8 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-33 | PB 9 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-34 | PB 9 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-35 | PB 9 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-36 | PB 9 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-37 | PB 10 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-38 | PB 10 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-39 | PB 10 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-40 | PB 10 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-45 | S1 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-46 | S1 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-47 | S1 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-48 | S1 9' | Total/NA | Solid | 8015 NM | |
| 880-10694-49 | S1 12' | Total/NA | Solid | 8015 NM | |
| 880-10694-50 | S2 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-51 | S2 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-52 | S2 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-53 | S2 9' | Total/NA | Solid | 8015 NM | |
| 880-10694-54 | S7 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-55 | S7 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-56 | S7 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-57 | S7 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-58 | S8 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-59 | S8 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-60 | S8 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-61 | S8 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-62 | S9 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-63 | S9 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-64 | S9 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-65 | S9 10' | Total/NA | Solid | 8015 NM | |

### Analysis Batch: 18455

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-21 | PB 6 1' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-22 | PB 6 3' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-23 | PB 6 5' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-24 | PB 6 10' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-25 | PB 7 1' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-26 | PB 7 3' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-27 | PB 7 5' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-28 | PB 7 10' | Total/NA | Solid | 8015B NM | 18189 |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## GC Semi VOA (Continued)

### Analysis Batch: 18455 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-29 | PB 8 1' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-30 | PB 8 3' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-31 | PB 8 5' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-32 | PB 8 10' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-33 | PB 9 1' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-34 | PB 9 3' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-35 | PB 9 5' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-36 | PB 9 10' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-37 | PB 10 1' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-38 | PB 10 3' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-39 | PB 10 5' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-40 | PB 10 10' | Total/NA | Solid | 8015B NM | 18189 |
| MB 880-18189/1-A | Method Blank | Total/NA | Solid | 8015B NM | 18189 |
| LCS 880-18189/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 18189 |
| LCSD 880-18189/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-21 MS | PB 6 1' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-21 MSD | PB 6 1' | Total/NA | Solid | 8015B NM | 18189 |

## HPLC/IC

### Leach Batch: 18208

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-58 | S8 1' | Soluble | Solid | DI Leach | |
| 880-10694-59 | S8 3' | Soluble | Solid | DI Leach | |
| 880-10694-60 | S8 5' | Soluble | Solid | DI Leach | |
| 880-10694-61 | S8 10' | Soluble | Solid | DI Leach | |
| 880-10694-62 | S9 1' | Soluble | Solid | DI Leach | |
| 880-10694-63 | S9 3' | Soluble | Solid | DI Leach | |
| 880-10694-64 | S9 5' | Soluble | Solid | DI Leach | |
| 880-10694-65 | S9 10' | Soluble | Solid | DI Leach | |
| MB 880-18208/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-18208/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-18208/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-10694-58 MS | S8 1' | Soluble | Solid | DI Leach | |
| 880-10694-58 MSD | S8 1' | Soluble | Solid | DI Leach | |

### Leach Batch: 18210

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-10 | PB 3 3' | Soluble | Solid | DI Leach | |
| 880-10694-11 | PB 3 5' | Soluble | Solid | DI Leach | |
| 880-10694-12 | PB 3 9' | Soluble | Solid | DI Leach | |
| 880-10694-13 | PB 4 1' | Soluble | Solid | DI Leach | |
| 880-10694-14 | PB 4 3' | Soluble | Solid | DI Leach | |
| 880-10694-15 | PB 4 5' | Soluble | Solid | DI Leach | |
| 880-10694-16 | PB 4 10' | Soluble | Solid | DI Leach | |
| 880-10694-17 | PB 5 1' | Soluble | Solid | DI Leach | |
| 880-10694-18 | PB 5 3' | Soluble | Solid | DI Leach | |
| MB 880-18210/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-18210/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-18210/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-10694-10 MS | PB 3 3' | Soluble | Solid | DI Leach | |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Leach Batch: 18210 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-10 MSD | PB 3 3' | Soluble | Solid | DI Leach | |

### Leach Batch: 18211

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-19 | PB 5 5' | Soluble | Solid | DI Leach | |
| 880-10694-20 | PB 5 10' | Soluble | Solid | DI Leach | |
| 880-10694-21 | PB 6 1' | Soluble | Solid | DI Leach | |
| 880-10694-22 | PB 6 3' | Soluble | Solid | DI Leach | |
| 880-10694-23 | PB 6 5' | Soluble | Solid | DI Leach | |
| 880-10694-24 | PB 6 10' | Soluble | Solid | DI Leach | |
| 880-10694-25 | PB 7 1' | Soluble | Solid | DI Leach | |
| 880-10694-26 | PB 7 3' | Soluble | Solid | DI Leach | |
| 880-10694-27 | PB 7 5' | Soluble | Solid | DI Leach | |
| 880-10694-28 | PB 7 10' | Soluble | Solid | DI Leach | |
| 880-10694-29 | PB 8 1' | Soluble | Solid | DI Leach | |
| 880-10694-30 | PB 8 3' | Soluble | Solid | DI Leach | |
| 880-10694-31 | PB 8 5' | Soluble | Solid | DI Leach | |
| 880-10694-32 | PB 8 10' | Soluble | Solid | DI Leach | |
| 880-10694-33 | PB 9 1' | Soluble | Solid | DI Leach | |
| 880-10694-34 | PB 9 3' | Soluble | Solid | DI Leach | |
| 880-10694-35 | PB 9 5' | Soluble | Solid | DI Leach | |
| 880-10694-36 | PB 9 10' | Soluble | Solid | DI Leach | |
| 880-10694-37 | PB 10 1' | Soluble | Solid | DI Leach | |
| 880-10694-38 | PB 10 3' | Soluble | Solid | DI Leach | |
| MB 880-18211/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-18211/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-18211/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-10694-19 MS | PB 5 5' | Soluble | Solid | DI Leach | |
| 880-10694-19 MSD | PB 5 5' | Soluble | Solid | DI Leach | |
| 880-10694-29 MS | PB 8 1' | Soluble | Solid | DI Leach | |
| 880-10694-29 MSD | PB 8 1' | Soluble | Solid | DI Leach | |

### Leach Batch: 18212

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-39 | PB 10 5' | Soluble | Solid | DI Leach | |
| 880-10694-40 | PB 10 10' | Soluble | Solid | DI Leach | |
| 880-10694-45 | S1 1' | Soluble | Solid | DI Leach | |
| 880-10694-46 | S1 3' | Soluble | Solid | DI Leach | |
| 880-10694-47 | S1 5' | Soluble | Solid | DI Leach | |
| 880-10694-48 | S1 9' | Soluble | Solid | DI Leach | |
| 880-10694-49 | S1 12' | Soluble | Solid | DI Leach | |
| 880-10694-50 | S2 1' | Soluble | Solid | DI Leach | |
| 880-10694-51 | S2 3' | Soluble | Solid | DI Leach | |
| 880-10694-52 | S2 5' | Soluble | Solid | DI Leach | |
| 880-10694-53 | S2 9' | Soluble | Solid | DI Leach | |
| 880-10694-54 | S7 1' | Soluble | Solid | DI Leach | |
| 880-10694-55 | S7 3' | Soluble | Solid | DI Leach | |
| 880-10694-56 | S7 5' | Soluble | Solid | DI Leach | |
| 880-10694-57 | S7 10' | Soluble | Solid | DI Leach | |
| MB 880-18212/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-18212/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Leach Batch: 18212 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCSD 880-18212/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-10694-39 MS | PB 10 5' | Soluble | Solid | DI Leach | |
| 880-10694-39 MSD | PB 10 5' | Soluble | Solid | DI Leach | |
| 880-10694-49 MS | S1 12' | Soluble | Solid | DI Leach | |
| 880-10694-49 MSD | S1 12' | Soluble | Solid | DI Leach | |

### Leach Batch: 18214

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Soluble | Solid | DI Leach | |
| 880-10694-2 | PB 1 3' | Soluble | Solid | DI Leach | |
| 880-10694-3 | PB 1 5' | Soluble | Solid | DI Leach | |
| 880-10694-4 | PB 1 9' | Soluble | Solid | DI Leach | |
| 880-10694-5 | PB 2 1' | Soluble | Solid | DI Leach | |
| 880-10694-6 | PB 2 3' | Soluble | Solid | DI Leach | |
| 880-10694-7 | PB 2 5' | Soluble | Solid | DI Leach | |
| 880-10694-8 | PB 2 8' | Soluble | Solid | DI Leach | |
| 880-10694-9 | PB 3 1' | Soluble | Solid | DI Leach | |
| MB 880-18214/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-18214/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-18214/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-10694-1 MS | PB 1 1' | Soluble | Solid | DI Leach | |
| 880-10694-1 MSD | PB 1 1' | Soluble | Solid | DI Leach | |

### Analysis Batch: 18287

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-58 | S8 1' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-59 | S8 3' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-60 | S8 5' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-61 | S8 10' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-62 | S9 1' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-63 | S9 3' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-64 | S9 5' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-65 | S9 10' | Soluble | Solid | 300.0 | 18208 |
| MB 880-18208/1-A | Method Blank | Soluble | Solid | 300.0 | 18208 |
| LCS 880-18208/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 18208 |
| LCSD 880-18208/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 18208 |
| 880-10694-58 MS | S8 1' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-58 MSD | S8 1' | Soluble | Solid | 300.0 | 18208 |

### Analysis Batch: 18408

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-10 | PB 3 3' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-11 | PB 3 5' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-12 | PB 3 9' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-13 | PB 4 1' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-14 | PB 4 3' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-15 | PB 4 5' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-16 | PB 4 10' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-17 | PB 5 1' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-18 | PB 5 3' | Soluble | Solid | 300.0 | 18210 |
| MB 880-18210/1-A | Method Blank | Soluble | Solid | 300.0 | 18210 |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Analysis Batch: 18408 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 880-18210/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 18210 |
| LCSD 880-18210/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 18210 |
| 880-10694-10 MS | PB 3 3' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-10 MSD | PB 3 3' | Soluble | Solid | 300.0 | 18210 |

### Analysis Batch: 18409

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-19 | PB 5 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-20 | PB 5 10' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-21 | PB 6 1' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-22 | PB 6 3' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-23 | PB 6 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-24 | PB 6 10' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-25 | PB 7 1' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-26 | PB 7 3' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-27 | PB 7 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-28 | PB 7 10' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-29 | PB 8 1' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-30 | PB 8 3' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-31 | PB 8 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-32 | PB 8 10' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-33 | PB 9 1' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-34 | PB 9 3' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-35 | PB 9 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-36 | PB 9 10' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-37 | PB 10 1' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-38 | PB 10 3' | Soluble | Solid | 300.0 | 18211 |
| MB 880-18211/1-A | Method Blank | Soluble | Solid | 300.0 | 18211 |
| LCS 880-18211/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 18211 |
| LCSD 880-18211/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 18211 |
| 880-10694-19 MS | PB 5 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-19 MSD | PB 5 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-29 MS | PB 8 1' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-29 MSD | PB 8 1' | Soluble | Solid | 300.0 | 18211 |

### Analysis Batch: 18519

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-39 | PB 10 5' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-40 | PB 10 10' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-45 | S1 1' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-46 | S1 3' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-47 | S1 5' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-48 | S1 9' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-49 | S1 12' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-50 | S2 1' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-51 | S2 3' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-52 | S2 5' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-53 | S2 9' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-54 | S7 1' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-55 | S7 3' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-56 | S7 5' | Soluble | Solid | 300.0 | 18212 |

# QC Association Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Analysis Batch: 18519 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-57 | S7 10' | Soluble | Solid | 300.0 | 18212 |
| MB 880-18212/1-A | Method Blank | Soluble | Solid | 300.0 | 18212 |
| LCS 880-18212/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 18212 |
| LCSD 880-18212/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 18212 |
| 880-10694-39 MS | PB 10 5' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-39 MSD | PB 10 5' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-49 MS | S1 12' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-49 MSD | S1 12' | Soluble | Solid | 300.0 | 18212 |

### Analysis Batch: 18520

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-2 | PB 1 3' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-3 | PB 1 5' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-4 | PB 1 9' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-5 | PB 2 1' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-6 | PB 2 3' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-7 | PB 2 5' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-8 | PB 2 8' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-9 | PB 3 1' | Soluble | Solid | 300.0 | 18214 |
| MB 880-18214/1-A | Method Blank | Soluble | Solid | 300.0 | 18214 |
| LCS 880-18214/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 18214 |
| LCSD 880-18214/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 18214 |
| 880-10694-1 MS | PB 1 1' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-1 MSD | PB 1 1' | Soluble | Solid | 300.0 | 18214 |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 1 1'

**Date Collected: 01/24/22 12:12**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-1

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 15:36 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 12:44 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18520 | 02/03/22 13:35 | CH | XEN MID |

## Client Sample ID: PB 1 3'

**Date Collected: 01/24/22 12:13**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-2

**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 | | | 4.98 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 15:56 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 16:33 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18520 | 02/03/22 15:12 | CH | XEN MID |

## Client Sample ID: PB 1 5'

**Date Collected: 01/24/22 12:14**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-3

**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 16:17 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 16:55 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18520 | 02/04/22 12:16 | CH | XEN MID |

## Client Sample ID: PB 1 9'

**Date Collected: 01/24/22 12:15**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-4

**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 | | | 5.03 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 16:37 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 1 9'

**Date Collected: 01/24/22 12:15**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-4**
**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 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 17:38 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18520 | 02/04/22 12:28 | CH | XEN MID |

## Client Sample ID: PB 2 1'

**Date Collected: 01/24/22 13:15**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-5**
**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 | | | 5.04 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 16:58 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 18:00 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18520 | 02/04/22 12:40 | CH | XEN MID |

## Client Sample ID: PB 2 3'

**Date Collected: 01/24/22 13:16**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-6**
**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 17:18 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 18:22 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18520 | 02/03/22 16:23 | CH | XEN MID |

## Client Sample ID: PB 2 5'

**Date Collected: 01/24/22 13:17**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-7**
**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 17:38 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 18:43 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 2 5'
**Date Collected: 01/24/22 13:17**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-7**
**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 | | | 4.95 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18520 | 02/04/22 12:52 | CH | XEN MID |

## Client Sample ID: PB 2 8'
**Date Collected: 01/24/22 13:18**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-8**
**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 | | | 4.99 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 17:59 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 19:06 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18520 | 02/03/22 16:46 | CH | XEN MID |

## Client Sample ID: PB 3 1'
**Date Collected: 01/24/22 13:45**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-9**
**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 18:19 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 19:27 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18520 | 02/03/22 16:58 | CH | XEN MID |

## Client Sample ID: PB 3 3'
**Date Collected: 01/24/22 13:46**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-10**
**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 18:40 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 19:49 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 18:46 | SMC | XEN MID |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 3 5'
**Date Collected: 01/24/22 13:47**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-11
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 20:30 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 20:11 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 19:09 | SMC | XEN MID |

## Client Sample ID: PB 3 9'
**Date Collected: 01/24/22 13:48**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-12
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 20:50 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 20:33 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 19:16 | SMC | XEN MID |

## Client Sample ID: PB 4 1'
**Date Collected: 01/26/22 09:00**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-13
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 21:11 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 20:54 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 19:24 | SMC | XEN MID |

## Client Sample ID: PB 4 3'
**Date Collected: 01/26/22 09:01**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-14
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 21:31 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |

Eurofins Midland

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 4 3'
**Date Collected: 01/26/22 09:01**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-14**
**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 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 01:34 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 19:31 | SMC | XEN MID |

## Client Sample ID: PB 4 5'
**Date Collected: 01/26/22 09:02**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-15**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 21:52 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 01:55 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18408 | 02/02/22 19:54 | SMC | XEN MID |

## Client Sample ID: PB 4 10'
**Date Collected: 01/26/22 09:02**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-16**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 22:12 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 02:16 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18408 | 02/02/22 20:02 | SMC | XEN MID |

## Client Sample ID: PB 5 1'
**Date Collected: 01/26/22 09:38**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-17**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 22:33 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 02:57 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 5 1'
**Date Collected: 01/26/22 09:38**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-17
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 20:09 | SMC | XEN MID |

## Client Sample ID: PB 5 3'
**Date Collected: 01/26/22 09:39**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-18
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 22:53 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 03:18 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 20:17 | SMC | XEN MID |

## Client Sample ID: PB 5 5'
**Date Collected: 01/26/22 09:40**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-19
**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 23:14 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 03:38 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/02/22 23:10 | SMC | XEN MID |

## Client Sample ID: PB 5 10'
**Date Collected: 01/26/22 09:44**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-20
**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 23:34 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 03:58 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/02/22 23:33 | SMC | XEN MID |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 6 1'

**Lab Sample ID: 880-10694-21**
**Matrix: Solid**
**Date Collected: 01/26/22 11:24**
**Date Received: 01/28/22 10:03**

| 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 03:13 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 10:39 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18409 | 02/02/22 23:41 | SMC | XEN MID |

## Client Sample ID: PB 6 3'

**Lab Sample ID: 880-10694-22**
**Matrix: Solid**
**Date Collected: 01/26/22 11:25**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 03:33 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 11:45 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/02/22 23:48 | SMC | XEN MID |

## Client Sample ID: PB 6 5'

**Lab Sample ID: 880-10694-23**
**Matrix: Solid**
**Date Collected: 01/26/22 11:26**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 03:54 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 12:07 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/02/22 23:56 | SMC | XEN MID |

## Client Sample ID: PB 6 10'

**Lab Sample ID: 880-10694-24**
**Matrix: Solid**
**Date Collected: 01/26/22 11:27**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 04:14 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |

Eurofins Midland

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 6 10'

**Lab Sample ID: 880-10694-24**
**Matrix: Solid**
**Date Collected: 01/26/22 11:27**
**Date Received: 01/28/22 10:03**

| 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 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 12:28 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 00:18 | SMC | XEN MID |

## Client Sample ID: PB 7 1'

**Lab Sample ID: 880-10694-25**
**Matrix: Solid**
**Date Collected: 01/26/22 10:21**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 04:35 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 12:50 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18409 | 02/03/22 00:26 | SMC | XEN MID |

## Client Sample ID: PB 7 3'

**Lab Sample ID: 880-10694-26**
**Matrix: Solid**
**Date Collected: 01/26/22 10:22**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 04:55 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 13:12 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 00:33 | SMC | XEN MID |

## Client Sample ID: PB 7 5'

**Lab Sample ID: 880-10694-27**
**Matrix: Solid**
**Date Collected: 01/26/22 10:23**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 05:16 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 13:34 | AJ | XEN MID |

Eurofins Midland

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 7 5'
**Date Collected: 01/26/22 10:23**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-27**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 00:41 | SMC | XEN MID |

## Client Sample ID: PB 7 10'
**Date Collected: 01/26/22 10:24**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-28**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 05:36 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 13:56 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 00:49 | SMC | XEN MID |

## Client Sample ID: PB 8 1'
**Date Collected: 01/26/22 13:53**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-29**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 05:56 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 14:16 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 20 | | | 18409 | 02/03/22 00:56 | SMC | XEN MID |

## Client Sample ID: PB 8 3'
**Date Collected: 01/26/22 13:56**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-30**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 06:17 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 14:39 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 01:19 | SMC | XEN MID |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 8 5'

**Lab Sample ID: 880-10694-31**
**Matrix: Solid**
**Date Collected: 01/26/22 13:55**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 08:07 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 15:36 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 01:27 | SMC | XEN MID |

## Client Sample ID: PB 8 10'

**Lab Sample ID: 880-10694-32**
**Matrix: Solid**
**Date Collected: 01/26/22 13:56**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 08:27 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 15:55 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 01:49 | SMC | XEN MID |

## Client Sample ID: PB 9 1'

**Lab Sample ID: 880-10694-33**
**Matrix: Solid**
**Date Collected: 01/27/22 09:56**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 08:48 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 16:15 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 01:57 | SMC | XEN MID |

## Client Sample ID: PB 9 3'

**Lab Sample ID: 880-10694-34**
**Matrix: Solid**
**Date Collected: 01/27/22 09:57**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 09:08 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 9 3'

**Date Collected: 01/27/22 09:57**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-34**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 16:35 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 02:04 | SMC | XEN MID |

## Client Sample ID: PB 9 5'

**Date Collected: 01/27/22 09:58**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-35**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 09:29 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 16:55 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 02:12 | SMC | XEN MID |

## Client Sample ID: PB 9 10'

**Date Collected: 01/27/22 09:59**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-36**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 09:49 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 17:16 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 02:20 | SMC | XEN MID |

## Client Sample ID: PB 10 1'

**Date Collected: 01/27/22 10:29**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-37**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 10:10 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 17:36 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 10 1'

**Date Collected: 01/27/22 10:29**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-37**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 02:27 | SMC | XEN MID |

## Client Sample ID: PB 10 3'

**Date Collected: 01/27/22 10:30**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-38**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 10:30 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 17:56 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 02:35 | SMC | XEN MID |

## Client Sample ID: PB 10 5'

**Date Collected: 01/27/22 10:31**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-39**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 10:51 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 18:15 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18519 | 02/03/22 11:30 | CH | XEN MID |

## Client Sample ID: PB 10 10'

**Date Collected: 01/27/22 10:32**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-40**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 11:11 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 18:36 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18519 | 02/03/22 11:53 | CH | XEN MID |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S1 1'

**Lab Sample ID: 880-10694-45**
**Matrix: Solid**
**Date Collected: 01/24/22 14:15**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18039 | 01/28/22 11:09 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 16:11 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 17:30 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18519 | 02/03/22 12:46 | CH | XEN MID |

## Client Sample ID: S1 3'

**Lab Sample ID: 880-10694-46**
**Matrix: Solid**
**Date Collected: 01/24/22 14:16**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18039 | 01/28/22 11:09 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 16:31 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 17:51 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18519 | 02/03/22 12:54 | CH | XEN MID |

## Client Sample ID: S1 5'

**Lab Sample ID: 880-10694-47**
**Matrix: Solid**
**Date Collected: 01/24/22 14:17**
**Date Received: 01/28/22 10:03**

| 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 | 18039 | 01/28/22 11:09 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 16:52 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 18:12 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18519 | 02/03/22 13:01 | CH | XEN MID |

## Client Sample ID: S1 9'

**Lab Sample ID: 880-10694-48**
**Matrix: Solid**
**Date Collected: 01/24/22 14:18**
**Date Received: 01/28/22 10:03**

| 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 | 18039 | 01/28/22 11:09 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 17:12 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |

Eurofins Midland

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S1 9'
**Date Collected: 01/24/22 14:18**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-48**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 18:34 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18519 | 02/03/22 13:09 | CH | XEN MID |

## Client Sample ID: S1 12'
**Date Collected: 01/24/22 14:19**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-49**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 18039 | 01/28/22 11:09 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 17:33 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 18:55 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18519 | 02/03/22 13:17 | CH | XEN MID |

## Client Sample ID: S2 1'
**Date Collected: 01/26/22 08:08**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-50**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 18039 | 01/28/22 11:09 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 17:53 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 19:17 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18519 | 02/03/22 13:39 | CH | XEN MID |

## Client Sample ID: S2 3'
**Date Collected: 01/26/22 08:09**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-51**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 11:14 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 19:38 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S2 3'
**Date Collected: 01/26/22 08:09**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-51**
**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 | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18519 | 02/03/22 13:47 | CH | XEN MID |

## Client Sample ID: S2 5'
**Date Collected: 01/26/22 08:10**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-52**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 11:35 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 19:59 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18519 | 02/03/22 14:09 | CH | XEN MID |

## Client Sample ID: S2 9'
**Date Collected: 01/26/22 08:11**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-53**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 11:55 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 20:21 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18519 | 02/03/22 14:24 | CH | XEN MID |

## Client Sample ID: S7 1'
**Date Collected: 01/26/22 12:35**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-54**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 12:16 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 20:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18519 | 02/03/22 14:17 | CH | XEN MID |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S7 3'

**Lab Sample ID: 880-10694-55**
**Matrix: Solid**
**Date Collected: 01/26/22 12:36**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 12:36 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 04:19 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18519 | 02/03/22 14:32 | CH | XEN MID |

## Client Sample ID: S7 5'

**Lab Sample ID: 880-10694-56**
**Matrix: Solid**
**Date Collected: 01/26/22 12:37**
**Date Received: 01/28/22 10:03**

| 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 | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 12:56 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 04:40 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18519 | 02/03/22 14:40 | CH | XEN MID |

## Client Sample ID: S7 10'

**Lab Sample ID: 880-10694-57**
**Matrix: Solid**
**Date Collected: 01/26/22 12:38**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 13:17 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 05:00 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18519 | 02/03/22 14:47 | CH | XEN MID |

## Client Sample ID: S8 1'

**Lab Sample ID: 880-10694-58**
**Matrix: Solid**
**Date Collected: 01/27/22 11:34**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 13:37 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S8 1'
**Date Collected: 01/27/22 11:34**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-58**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 05:22 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 00:35 | SMC | XEN MID |

## Client Sample ID: S8 3'
**Date Collected: 01/27/22 11:35**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-59**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 13:58 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 05:43 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 00:54 | SMC | XEN MID |

## Client Sample ID: S8 5'
**Date Collected: 01/27/22 11:36**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-60**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 14:18 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 06:03 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 01:00 | SMC | XEN MID |

## Client Sample ID: S8 10'
**Date Collected: 01/27/22 11:37**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-61**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 18045 | 01/28/22 13:19 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17866 | 01/29/22 11:44 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18190 | 01/31/22 15:06 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18339 | 02/02/22 17:38 | AJ | XEN MID |

Eurofins Midland

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S8 10'

**Lab Sample ID: 880-10694-61**
**Matrix: Solid**
**Date Collected: 01/27/22 11:37**
**Date Received: 01/28/22 10:03**

| 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 | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 01:06 | SMC | XEN MID |

## Client Sample ID: S9 1'

**Lab Sample ID: 880-10694-62**
**Matrix: Solid**
**Date Collected: 01/27/22 08:50**
**Date Received: 01/28/22 10:03**

| 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 | 18045 | 01/28/22 13:19 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17866 | 01/29/22 12:12 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18190 | 01/31/22 15:06 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18339 | 02/02/22 18:00 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 20 | | | 18287 | 02/03/22 01:12 | SMC | XEN MID |

## Client Sample ID: S9 3'

**Lab Sample ID: 880-10694-63**
**Matrix: Solid**
**Date Collected: 01/27/22 08:51**
**Date Received: 01/28/22 10:03**

| 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 | 18045 | 01/28/22 13:19 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17866 | 01/29/22 12:40 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18190 | 01/31/22 15:06 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18339 | 02/02/22 18:22 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 01:31 | SMC | XEN MID |

## Client Sample ID: S9 5'

**Lab Sample ID: 880-10694-64**
**Matrix: Solid**
**Date Collected: 01/27/22 08:52**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18045 | 01/28/22 13:19 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17866 | 01/29/22 13:08 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18190 | 01/31/22 15:06 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18339 | 02/02/22 18:43 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 01:37 | SMC | XEN MID |

# Lab Chronicle

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

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S9 10'

**Date Collected: 01/27/22 08:53**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-65

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 18045 | 01/28/22 13:19 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17866 | 01/29/22 13:36 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18190 | 01/31/22 15:06 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18339 | 02/02/22 19:06 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 01:43 | SMC | XEN MID |

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-10694-1
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 | T104704400-22-23 | 06-30-22 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

# Method Summary

Client: Larson & Associates, Inc. Job ID: 880-10694-1
Project/Site: Boo Radley SDG: 21-0105-08

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

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

# Sample Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Solid | 01/24/22 12:12 | 01/28/22 10:03 |
| 880-10694-2 | PB 1 3' | Solid | 01/24/22 12:13 | 01/28/22 10:03 |
| 880-10694-3 | PB 1 5' | Solid | 01/24/22 12:14 | 01/28/22 10:03 |
| 880-10694-4 | PB 1 9' | Solid | 01/24/22 12:15 | 01/28/22 10:03 |
| 880-10694-5 | PB 2 1' | Solid | 01/24/22 13:15 | 01/28/22 10:03 |
| 880-10694-6 | PB 2 3' | Solid | 01/24/22 13:16 | 01/28/22 10:03 |
| 880-10694-7 | PB 2 5' | Solid | 01/24/22 13:17 | 01/28/22 10:03 |
| 880-10694-8 | PB 2 8' | Solid | 01/24/22 13:18 | 01/28/22 10:03 |
| 880-10694-9 | PB 3 1' | Solid | 01/24/22 13:45 | 01/28/22 10:03 |
| 880-10694-10 | PB 3 3' | Solid | 01/24/22 13:46 | 01/28/22 10:03 |
| 880-10694-11 | PB 3 5' | Solid | 01/24/22 13:47 | 01/28/22 10:03 |
| 880-10694-12 | PB 3 9' | Solid | 01/24/22 13:48 | 01/28/22 10:03 |
| 880-10694-13 | PB 4 1' | Solid | 01/26/22 09:00 | 01/28/22 10:03 |
| 880-10694-14 | PB 4 3' | Solid | 01/26/22 09:01 | 01/28/22 10:03 |
| 880-10694-15 | PB 4 5' | Solid | 01/26/22 09:02 | 01/28/22 10:03 |
| 880-10694-16 | PB 4 10' | Solid | 01/26/22 09:02 | 01/28/22 10:03 |
| 880-10694-17 | PB 5 1' | Solid | 01/26/22 09:38 | 01/28/22 10:03 |
| 880-10694-18 | PB 5 3' | Solid | 01/26/22 09:39 | 01/28/22 10:03 |
| 880-10694-19 | PB 5 5' | Solid | 01/26/22 09:40 | 01/28/22 10:03 |
| 880-10694-20 | PB 5 10' | Solid | 01/26/22 09:44 | 01/28/22 10:03 |
| 880-10694-21 | PB 6 1' | Solid | 01/26/22 11:24 | 01/28/22 10:03 |
| 880-10694-22 | PB 6 3' | Solid | 01/26/22 11:25 | 01/28/22 10:03 |
| 880-10694-23 | PB 6 5' | Solid | 01/26/22 11:26 | 01/28/22 10:03 |
| 880-10694-24 | PB 6 10' | Solid | 01/26/22 11:27 | 01/28/22 10:03 |
| 880-10694-25 | PB 7 1' | Solid | 01/26/22 10:21 | 01/28/22 10:03 |
| 880-10694-26 | PB 7 3' | Solid | 01/26/22 10:22 | 01/28/22 10:03 |
| 880-10694-27 | PB 7 5' | Solid | 01/26/22 10:23 | 01/28/22 10:03 |
| 880-10694-28 | PB 7 10' | Solid | 01/26/22 10:24 | 01/28/22 10:03 |
| 880-10694-29 | PB 8 1' | Solid | 01/26/22 13:53 | 01/28/22 10:03 |
| 880-10694-30 | PB 8 3' | Solid | 01/26/22 13:56 | 01/28/22 10:03 |
| 880-10694-31 | PB 8 5' | Solid | 01/26/22 13:55 | 01/28/22 10:03 |
| 880-10694-32 | PB 8 10' | Solid | 01/26/22 13:56 | 01/28/22 10:03 |
| 880-10694-33 | PB 9 1' | Solid | 01/27/22 09:56 | 01/28/22 10:03 |
| 880-10694-34 | PB 9 3' | Solid | 01/27/22 09:57 | 01/28/22 10:03 |
| 880-10694-35 | PB 9 5' | Solid | 01/27/22 09:58 | 01/28/22 10:03 |
| 880-10694-36 | PB 9 10' | Solid | 01/27/22 09:59 | 01/28/22 10:03 |
| 880-10694-37 | PB 10 1' | Solid | 01/27/22 10:29 | 01/28/22 10:03 |
| 880-10694-38 | PB 10 3' | Solid | 01/27/22 10:30 | 01/28/22 10:03 |
| 880-10694-39 | PB 10 5' | Solid | 01/27/22 10:31 | 01/28/22 10:03 |
| 880-10694-40 | PB 10 10' | Solid | 01/27/22 10:32 | 01/28/22 10:03 |
| 880-10694-45 | S1 1' | Solid | 01/24/22 14:15 | 01/28/22 10:03 |
| 880-10694-46 | S1 3' | Solid | 01/24/22 14:16 | 01/28/22 10:03 |
| 880-10694-47 | S1 5' | Solid | 01/24/22 14:17 | 01/28/22 10:03 |
| 880-10694-48 | S1 9' | Solid | 01/24/22 14:18 | 01/28/22 10:03 |
| 880-10694-49 | S1 12' | Solid | 01/24/22 14:19 | 01/28/22 10:03 |
| 880-10694-50 | S2 1' | Solid | 01/26/22 08:08 | 01/28/22 10:03 |
| 880-10694-51 | S2 3' | Solid | 01/26/22 08:09 | 01/28/22 10:03 |
| 880-10694-52 | S2 5' | Solid | 01/26/22 08:10 | 01/28/22 10:03 |
| 880-10694-53 | S2 9' | Solid | 01/26/22 08:11 | 01/28/22 10:03 |
| 880-10694-54 | S7 1' | Solid | 01/26/22 12:35 | 01/28/22 10:03 |
| 880-10694-55 | S7 3' | Solid | 01/26/22 12:36 | 01/28/22 10:03 |
| 880-10694-56 | S7 5' | Solid | 01/26/22 12:37 | 01/28/22 10:03 |
| 880-10694-57 | S7 10' | Solid | 01/26/22 12:38 | 01/28/22 10:03 |
| 880-10694-58 | S8 1' | Solid | 01/27/22 11:34 | 01/28/22 10:03 |
| 880-10694-59 | S8 3' | Solid | 01/27/22 11:35 | 01/28/22 10:03 |

# Sample Summary

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

Job ID: 880-10694-1
SDG: 21-0105-08

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-10694-60 | S8 5' | Solid | 01/27/22 11:36 | 01/28/22 10:03 |
| 880-10694-61 | S8 10' | Solid | 01/27/22 11:37 | 01/28/22 10:03 |
| 880-10694-62 | S9 1' | Solid | 01/27/22 08:50 | 01/28/22 10:03 |
| 880-10694-63 | S9 3' | Solid | 01/27/22 08:51 | 01/28/22 10:03 |
| 880-10694-64 | S9 5' | Solid | 01/27/22 08:52 | 01/28/22 10:03 |
| 880-10694-65 | S9 10' | Solid | 01/27/22 08:53 | 01/28/22 10:03 |

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No. 2390

10694

# CHAIN-OF-CUSTODY

7/7/2022 (Rev. 1)

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

DATE 1/28/22 PAGE 1 OF 5

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR JR & TP

Data Reported to

TRRP report? ☐ Yes ☐ No

TIME ZONE Time zone/State

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 ☐ 8021B | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PB 1 1' | | 1/24 | 12:12 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB 1 3' | | 1/24 | 12:13 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB 1 5' | | 1/24 | 12:14 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB 1 9' | | 1/24 | 12:15 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB 2 1' | | 1/24 | 13:15 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB 2 3' | | 1/24 | 13:16 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB 2 5' | | 1/24 | 13:17 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB 2 8' | | 1/24 | 13:18 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB 3 1' | | 1/24 | 13:45 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB 3 3' | | 1/24 | 13:46 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB 3 5' | | 1/24 | 13:47 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB 3 9' | | 1/24 | 13:48 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB4 1' | | 1/26 | 9:00 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB4 3 | | 1/26 | 9:01 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| PB4 5' | | 1/26 | 9:02 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | X | |
| TOTAL 15 | | | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | |

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

John Schubert 01/28/22 10:03 [illegible]

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 1.2 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

880-10694 Chain of Custody

Page 113 of 118

Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

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No. 2391

10694 CHAIN-OF-CUSTODY

7/7/2022 (Rev. 1)

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

Data Reported to

DATE 1/28/22 PAGE 2 OF 5

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR JR & TP

TRRP report? ☐ Yes ☐ No

TIME ZONE Time zone/State

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

PRESERVATION: HCl, $HNO_3$, $H_2SO_4$, NaOH, ICE, UNPRESERVED

ANALYSES: BTEX + MTBE, BY 8021B, TRPH 418.1, TPH 1005, TPH 1006, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, SVOC 8270, PAH 8270, HOLDPAH, 8081 PESTICIDES, 8151 HERBICIDES, 8082 PCBS, TCLP - METALS (RCRA), TCLP VOC, TCLP - PEST, HERB, Semi-VOC, TOTAL METALS (RCRA), OTHER LIST, LEAD - TOTAL, DW 200.8, TCLP, RCI, TOX, FLASHPOINT, TDS, TSS, % MOISTURE, 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 | UNPRESERVED | BTEX+MTBE | BY 8021B | TRPH 418.1 | TPH 1005 | TPH 1006 | GASOLINE MOD 8015 | DIESEL - MOD 8015 | OIL - MOD 8015 | VOC 8260 | SVOC 8270 | PAH 8270 | HOLDPAH | 8081 PESTICIDES | 8151 HERBICIDES | 8082 PCBS | TCLP - METALS (RCRA) | TCLP VOC | TCLP - PEST | HERB | Semi-VOC | TOTAL METALS (RCRA) | OTHER LIST | LEAD - TOTAL | DW 200.8 | TCLP | RCI | TOX | FLASHPOINT | TDS | TSS | % MOISTURE | CYANIDE | pH | HEXAVALENT CHROMIUM | EXPLOSIVES | PECHLORATE | CHLORIDE | ANIONS | ALKALINITY | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PB 4 10' | | 1/26 | 9 02 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 5 1' | | 1/26 | 9 38 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 5 3' | | 1/26 | 9 39 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 5 5' | | 1/26 | 9 40 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 5 10' | | 1/26 | 9 41 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 6 1' | | 1/26 | 11.24 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 6 3' | | 1/26 | 11.25 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 6 5' | | 1/26 | 11:26 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 6 10' | | 1/26 | 1127 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 7 1' | | 1/26 | 10:21 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 7 3' | | 1/26 | 1022 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 7 5 | | 1/26 | 10.23 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 7 10 | | 1/26 | 10 24 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PBB 1' | | 1/26 | 13 53 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 8 3' | | 1/26 | 13:56 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL 15 | | | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) John White DATE/TIME 01/28/22 10:05 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 X
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 1/2 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

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Received by OCD: 7/11/2022 1:07:29 PM

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No. 2392

101694

# CHAIN-OF-CUSTODY

7/7/2022 (Rev. 1)

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

Data Reported to

DATE 1/28/22 PAGE 3 OF 5

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0165-08 COLLECTOR JR & TP

TRRP report? ☐ Yes ☐ No

TIME ZONE Time zone/State

(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 | UNPRESERVED | ANALYSES: BTEX MTBE 8021B | 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 | TCLP HERB | TOTAL METALS (RCRA) | Semi-VOC | LEAD - TOTAL | DW 200.8 | OTHER LIST | RCI | TOX | TDS | TSS | FLASHPOINT | TCLP | pH | % MOISTURE | EXPLOSIVES | CYANIDE | HEXAVALENT CHROMIUM | CHLORIDE | PECHLORATE | ANIONS | ALKALINITY | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PB 8 5' | | 1/26 | 13:55 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| PB 8 10' | | 1/26 | 13:56 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| PB 9 1' | | 1/27 | 9:56 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| PB 9 3' | | 1/27 | 9:57 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| PB 9 5' | | 1/27 | 9:58 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| PB 9 10' | | 1/27 | 9:59 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| PB 10 1' | | 1/27 | 10:29 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| PB 10 3' | | 1/27 | 10:30 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| PB 10 5' | | 1/27 | 10:31 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| PB 10 10' | | 1/27 | 10:32 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| PB 11 1' | | 1/24 | 10:51 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| PB 11 3' | | 1/24 | 10:52 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| PB 11 5' | | 1/24 | 10:53 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| PB 11 10' | | 1/24 | 10:54 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| S1 1' | | 1/24 | 14:15 | S | 1 | | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| TOTAL 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) John White DATE/TIME 01/28/22 10:03 RECEIVED BY (Signature) Rebecca R

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 1.2 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

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Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

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No. 2393

10694

# CHAIN-OF-CUSTODY

7/7/2022 (Rev. 1)

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

Data Reported to

DATE 1/28/22 PAGE 4 OF 5

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR JR & TP

TRRP report? ☐ Yes ☐ No

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

TIME ZONE Time zone/State

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ NaOH | ICE | UNPRESSERVED | ANALYSES: BTEX 8021B 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 | TDS | TSS | FLASHPOINT | pH | % MOISTURE | CYANIDE | EXPLOSIVES | HEXAVALENT CHROMIUM | CHLORIDE | PECHLORATE | ANIONS | ALKALINITY | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1 3' | | 1/24 | 14 16 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S1 5' | | 1/24 | 14:17 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S1 9' | | 1/24 | 14 18 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S1 12' | | 1/24 | 14 19 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S2 1' | | 1/26 | 8:08 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S2 3' | | 1/26 | 8 09 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S2 5' | | 1/26 | 8 10 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S2 9' | | 1/26 | 8 11 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S7 1' | | 1/26 | 12:35 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S7 3' | | 1/26 | 12:36 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S7 5' | | 1/26 | 12:37 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S7 10' | | 1/26 | 12:38 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S8 1' | | 1/27 | 11:34 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S8 3' | | 1/27 | 11:35 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S8 5 | | 1/27 | 11 36 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) John White DATE/TIME 01/28/22 1003 RECEIVED BY (Signature) Littrell R

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 1.2 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

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Received by OCD: 7/11/2022 1:07:29 PM

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No. 2394

10694

# CHAIN-OF-CUSTODY

7/7/2022 (Rev. 1)

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

Data Reported to

DATE 1/28/22 PAGE 5 OF 5

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Box Radley

LAI PROJECT # 21-0105-08 COLLECTOR JR/TP

TRRP report? ☐ Yes ☐ No

TIME ZONE
Time zone/State

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

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

ANALYSES: BTEX ☒ MTBE ☐ BY 8021B | TRPH 418.1 ☐ | TPH 1005 ☐ | TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ | HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8082 PCBS ☐ | 8151 HERBICIDES ☐ | TCLP - METALS (RCRA) ☐ | TCLP VOC ☐ | TCLP - PEST ☐ | HERB ☐ | Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ | OTHER LIST ☐ | LEAD - TOTAL ☐ | D W 200.8 ☐ | TCLP ☐ | RCI ☐ | TOX ☐ | FLASHPOINT ☐ | TDS ☐ | TSS ☐ | % MOISTURE ☐ | CYANIDE ☐ | pH ☐ | HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ | PECHLORATE ☐ | 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 | GASOLINE MOD 8015 | DIESEL - MOD 8015 | OIL - MOD 8015 | CHLORIDE | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S8 10 | | 1/27 | 11 37 | S | 1 | | | | | ✓ | | X | | X | X | X | | X | |
| S9 1' | | 1/27 | 8.50 | S | 1 | | | | | ✓ | | X | | X | X | X | | X | |
| S9 3 | | 1/27 | 8.51 | S | 1 | | | | | ✓ | | X | | X | X | X | | X | |
| S9 5' | | 1/27 | 8 52 | S | 1 | | | | | ✓ | | X | | X | X | X | | X | |
| S9 10' | | 1/27 | 8 53 | S | 1 | | | | | ✓ | | X | | X | X | X | | X | |
| TOTAL 5 | | | | | 5 | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) John White DATE/TIME 01/28/22 10:03 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 0/1.2 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

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Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

# Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-10694-1
SDG Number: 21-0105-08

**Login Number: 10694**
**List Number: 1**
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

eurofins | Environment Testing America



# ANALYTICAL REPORT

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

Laboratory Job ID: 880-14917-1
Laboratory Sample Delivery Group: 21-0105-08
Client Project/Site: Boo Raddley
Revision: 1

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

Attn: Mr. Mark J Larson

Holly Taylor

*Authorized for release by:*
*7/7/2022 5:47:20 PM*

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

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-14917-1
SDG: 21-0105-08

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# Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-14917-1
Project/Site: Boo Raddley SDG: 21-0105-08

## Qualifiers

### 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 Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

## Job ID: 880-14917-1

### Laboratory: Eurofins Midland

**Narrative**

**Job Narrative**
**880-14917-1**

**Comments**
No additional comments.

**Revision**
The report being provided is a revision of the original report sent on 5/24/2022. The report (revision 1) is being revised to remove all sample results for PB-11 at all depths per Robert Nelson (email).

**Receipt**
The samples were received on 5/18/2022 8:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.1° C.

**General Chemistry**
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 Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

## Client Sample ID: S-1, 15'
**Lab Sample ID: 880-14917-11**
**Date Collected: 05/16/22 14:00**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 720 | | 24.9 | | mg/Kg | | | 05/21/22 00:39 | 5 |

## Client Sample ID: S-1, 20'
**Lab Sample ID: 880-14917-12**
**Date Collected: 05/16/22 14:02**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1290 | | 49.5 | | mg/Kg | | | 05/21/22 00:47 | 10 |

## Client Sample ID: S-1, 25'
**Lab Sample ID: 880-14917-13**
**Date Collected: 05/16/22 14:15**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1920 | | 25.0 | | mg/Kg | | | 05/21/22 00:54 | 5 |

## Client Sample ID: S-1, 30'
**Lab Sample ID: 880-14917-14**
**Date Collected: 05/16/22 14:21**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1610 | | 25.0 | | mg/Kg | | | 05/23/22 23:16 | 5 |

## Client Sample ID: S-1, 35'
**Lab Sample ID: 880-14917-15**
**Date Collected: 05/16/22 14:30**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 597 | | 4.98 | | mg/Kg | | | 05/23/22 23:43 | 1 |

## Client Sample ID: S-1, 40'
**Lab Sample ID: 880-14917-16**
**Date Collected: 05/16/22 14:32**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 498 | | 4.95 | | mg/Kg | | | 05/23/22 23:53 | 1 |

## Client Sample ID: S-2, 10'
**Lab Sample ID: 880-14917-17**
**Date Collected: 05/17/22 09:50**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 219 | | 25.2 | | mg/Kg | | | 05/24/22 00:02 | 5 |

# Client Sample Results

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

Job ID: 880-14917-1
SDG: 21-0105-08

## Client Sample ID: S-2, 15'
**Lab Sample ID: 880-14917-18**
**Date Collected: 05/17/22 09:52**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 908 | | 25.0 | | mg/Kg | | | 05/24/22 00:11 | 5 |

## Client Sample ID: S-2, 20'
**Lab Sample ID: 880-14917-19**
**Date Collected: 05/17/22 09:54**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 650 | | 25.3 | | mg/Kg | | | 05/24/22 00:39 | 5 |

## Client Sample ID: S-2, 25'
**Lab Sample ID: 880-14917-20**
**Date Collected: 05/17/22 10:24**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 500 | | 4.98 | | mg/Kg | | | 05/24/22 00:48 | 1 |

## Client Sample ID: S-2, 30'
**Lab Sample ID: 880-14917-21**
**Date Collected: 05/17/22 10:26**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 389 | | 24.8 | | mg/Kg | | | 05/24/22 00:57 | 5 |

## Client Sample ID: PB-4, 15'
**Lab Sample ID: 880-14917-22**
**Date Collected: 05/17/22 10:58**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 421 | | 24.8 | | mg/Kg | | | 05/24/22 01:07 | 5 |

## Client Sample ID: PB-4, 20'
**Lab Sample ID: 880-14917-23**
**Date Collected: 05/17/22 11:00**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 356 | | 5.01 | | mg/Kg | | | 05/24/22 01:16 | 1 |

# QC Sample Results

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

Job ID: 880-14917-1
SDG: 21-0105-08

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-25821/1-A**
**Matrix: Solid**
**Analysis Batch: 25999**

**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 | | | 05/20/22 21:11 | 1 |

**Lab Sample ID: LCS 880-25821/2-A**
**Matrix: Solid**
**Analysis Batch: 25999**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 257.7 | | mg/Kg | | 103 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-25821/3-A**
**Matrix: Solid**
**Analysis Batch: 25999**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 256.7 | | mg/Kg | | 103 | 90 - 110 | 0 | 20 |

**Lab Sample ID: 880-14917-A-4-B MS**
**Matrix: Solid**
**Analysis Batch: 25999**

**Client Sample ID: 880-14917-A-4-B MS**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1720 | | 1250 | 3047 | | mg/Kg | | 107 | 90 - 110 | | |

**Lab Sample ID: 880-14917-A-4-C MSD**
**Matrix: Solid**
**Analysis Batch: 25999**

**Client Sample ID: 880-14917-A-4-C MSD**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1720 | | 1250 | 3037 | | mg/Kg | | 106 | 90 - 110 | 0 | 20 |

**Lab Sample ID: MB 880-25822/1-A**
**Matrix: Solid**
**Analysis Batch: 26073**

**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 | | | 05/23/22 22:48 | 1 |

**Lab Sample ID: LCS 880-25822/2-A**
**Matrix: Solid**
**Analysis Batch: 26073**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 241.8 | | mg/Kg | | 97 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-25822/3-A**
**Matrix: Solid**
**Analysis Batch: 26073**

**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 | 241.5 | | mg/Kg | | 97 | 90 - 110 | 0 | 20 |

# QC Sample Results

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

Job ID: 880-14917-1
SDG: 21-0105-08

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: 880-14917-14 MS**
**Matrix: Solid**
**Analysis Batch: 26073**

**Client Sample ID: S-1, 30'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1610 | | 1250 | 2917 | | mg/Kg | | 105 | 90 - 110 | | |

**Lab Sample ID: 880-14917-14 MSD**
**Matrix: Solid**
**Analysis Batch: 26073**

**Client Sample ID: S-1, 30'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1610 | | 1250 | 2962 | | mg/Kg | | 108 | 90 - 110 | 2 | 20 |

# QC Association Summary

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

Job ID: 880-14917-1
SDG: 21-0105-08

## HPLC/IC

### Leach Batch: 25821

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-14917-11 | S-1, 15' | Soluble | Solid | DI Leach | |
| 880-14917-12 | S-1, 20' | Soluble | Solid | DI Leach | |
| 880-14917-13 | S-1, 25' | Soluble | Solid | DI Leach | |
| MB 880-25821/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-25821/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-25821/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-14917-A-4-B MS | 880-14917-A-4-B MS | Soluble | Solid | DI Leach | |
| 880-14917-A-4-C MSD | 880-14917-A-4-C MSD | Soluble | Solid | DI Leach | |

### Leach Batch: 25822

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-14917-14 | S-1, 30' | Soluble | Solid | DI Leach | |
| 880-14917-15 | S-1, 35' | Soluble | Solid | DI Leach | |
| 880-14917-16 | S-1, 40' | Soluble | Solid | DI Leach | |
| 880-14917-17 | S-2, 10' | Soluble | Solid | DI Leach | |
| 880-14917-18 | S-2, 15' | Soluble | Solid | DI Leach | |
| 880-14917-19 | S-2, 20' | Soluble | Solid | DI Leach | |
| 880-14917-20 | S-2, 25' | Soluble | Solid | DI Leach | |
| 880-14917-21 | S-2, 30' | Soluble | Solid | DI Leach | |
| 880-14917-22 | PB-4, 15' | Soluble | Solid | DI Leach | |
| 880-14917-23 | PB-4, 20' | Soluble | Solid | DI Leach | |
| MB 880-25822/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-25822/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-25822/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-14917-14 MS | S-1, 30' | Soluble | Solid | DI Leach | |
| 880-14917-14 MSD | S-1, 30' | Soluble | Solid | DI Leach | |

### Analysis Batch: 25999

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-14917-11 | S-1, 15' | Soluble | Solid | 300.0 | 25821 |
| 880-14917-12 | S-1, 20' | Soluble | Solid | 300.0 | 25821 |
| 880-14917-13 | S-1, 25' | Soluble | Solid | 300.0 | 25821 |
| MB 880-25821/1-A | Method Blank | Soluble | Solid | 300.0 | 25821 |
| LCS 880-25821/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 25821 |
| LCSD 880-25821/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 25821 |
| 880-14917-A-4-B MS | 880-14917-A-4-B MS | Soluble | Solid | 300.0 | 25821 |
| 880-14917-A-4-C MSD | 880-14917-A-4-C MSD | Soluble | Solid | 300.0 | 25821 |

### Analysis Batch: 26073

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-14917-14 | S-1, 30' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-15 | S-1, 35' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-16 | S-1, 40' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-17 | S-2, 10' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-18 | S-2, 15' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-19 | S-2, 20' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-20 | S-2, 25' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-21 | S-2, 30' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-22 | PB-4, 15' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-23 | PB-4, 20' | Soluble | Solid | 300.0 | 25822 |
| MB 880-25822/1-A | Method Blank | Soluble | Solid | 300.0 | 25822 |

# QC Association Summary

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

Job ID: 880-14917-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Analysis Batch: 26073 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 880-25822/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 25822 |
| LCSD 880-25822/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 25822 |
| 880-14917-14 MS | S-1, 30' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-14 MSD | S-1, 30' | Soluble | Solid | 300.0 | 25822 |

# Lab Chronicle

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

Job ID: 880-14917-1
SDG: 21-0105-08

## Client Sample ID: S-1, 15'
**Date Collected: 05/16/22 14:00**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-11**
**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 | 25821 | 05/18/22 14:10 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 25999 | 05/21/22 00:39 | CH | XEN MID |

## Client Sample ID: S-1, 20'
**Date Collected: 05/16/22 14:02**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-12**
**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 | 25821 | 05/18/22 14:10 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 25999 | 05/21/22 00:47 | CH | XEN MID |

## Client Sample ID: S-1, 25'
**Date Collected: 05/16/22 14:15**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-13**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 25821 | 05/18/22 14:10 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 25999 | 05/21/22 00:54 | CH | XEN MID |

## Client Sample ID: S-1, 30'
**Date Collected: 05/16/22 14:21**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-14**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 26073 | 05/23/22 23:16 | CH | XEN MID |

## Client Sample ID: S-1, 35'
**Date Collected: 05/16/22 14:30**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-15**
**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 26073 | 05/23/22 23:43 | CH | XEN MID |

## Client Sample ID: S-1, 40'
**Date Collected: 05/16/22 14:32**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-16**
**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 26073 | 05/23/22 23:53 | CH | XEN MID |

# Lab Chronicle

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

Job ID: 880-14917-1
SDG: 21-0105-08

## Client Sample ID: S-2, 10'
**Date Collected: 05/17/22 09:50**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-17**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 26073 | 05/24/22 00:02 | CH | XEN MID |

## Client Sample ID: S-2, 15'
**Date Collected: 05/17/22 09:52**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-18**
**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 26073 | 05/24/22 00:11 | CH | XEN MID |

## Client Sample ID: S-2, 20'
**Date Collected: 05/17/22 09:54**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-19**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 26073 | 05/24/22 00:39 | CH | XEN MID |

## Client Sample ID: S-2, 25'
**Date Collected: 05/17/22 10:24**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-20**
**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 26073 | 05/24/22 00:48 | CH | XEN MID |

## Client Sample ID: S-2, 30'
**Date Collected: 05/17/22 10:26**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-21**
**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 26073 | 05/24/22 00:57 | CH | XEN MID |

## Client Sample ID: PB-4, 15'
**Date Collected: 05/17/22 10:58**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-22**
**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 26073 | 05/24/22 01:07 | CH | XEN MID |

# Lab Chronicle

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

Job ID: 880-14917-1
SDG: 21-0105-08

## Client Sample ID: PB-4, 20'

**Date Collected: 05/17/22 11:00**
**Date Received: 05/18/22 08:40**

## Lab Sample ID: 880-14917-23

**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 26073 | 05/24/22 01:16 | CH | XEN MID |

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 880-14917-1
SDG: 21-0105-08

## Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Texas | NELAP | T104704400-22-23 | 06-30-22 |

# Method Summary

Client: Larson & Associates, Inc. Job ID: 880-14917-1
Project/Site: Boo Raddley SDG: 21-0105-08

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 300.0 | Anions, Ion Chromatography | MCAWW | XEN MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | XEN MID |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

**Laboratory References:**

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

# Sample Summary

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

Job ID: 880-14917-1
SDG: 21-0105-08

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-14917-11 | S-1, 15' | Solid | 05/16/22 14:00 | 05/18/22 08:40 |
| 880-14917-12 | S-1, 20' | Solid | 05/16/22 14:02 | 05/18/22 08:40 |
| 880-14917-13 | S-1, 25' | Solid | 05/16/22 14:15 | 05/18/22 08:40 |
| 880-14917-14 | S-1, 30' | Solid | 05/16/22 14:21 | 05/18/22 08:40 |
| 880-14917-15 | S-1, 35' | Solid | 05/16/22 14:30 | 05/18/22 08:40 |
| 880-14917-16 | S-1, 40' | Solid | 05/16/22 14:32 | 05/18/22 08:40 |
| 880-14917-17 | S-2, 10' | Solid | 05/17/22 09:50 | 05/18/22 08:40 |
| 880-14917-18 | S-2, 15' | Solid | 05/17/22 09:52 | 05/18/22 08:40 |
| 880-14917-19 | S-2, 20' | Solid | 05/17/22 09:54 | 05/18/22 08:40 |
| 880-14917-20 | S-2, 25' | Solid | 05/17/22 10:24 | 05/18/22 08:40 |
| 880-14917-21 | S-2, 30' | Solid | 05/17/22 10:26 | 05/18/22 08:40 |
| 880-14917-22 | PB-4, 15' | Solid | 05/17/22 10:58 | 05/18/22 08:40 |
| 880-14917-23 | PB-4, 20' | Solid | 05/17/22 11:00 | 05/18/22 08:40 |

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No. 2471

14917 CHAIN-OF-CUSTODY

7/7/2022 (Rev1)

Larson & Associates, Inc.
Environmental Consultants

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

Data Reported to

DATE. 5/18/2022 PAGE 1 OF 2

PO#. _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Boo Radley

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

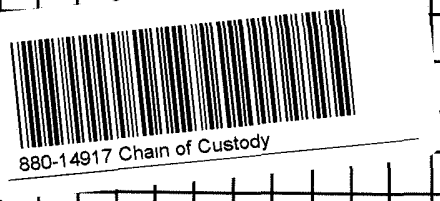
TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MST/NM

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ ☐ NaOH ☐ | ICE | UNPRESERVED | ANALYSES | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PB-11, 15' | | 5/16/22 | 1150 | S | 1 | | | | X | | | |
| PB-11, 20' | | | 1152 | | | | | | | | | |
| PB-11, 25' | | | 1215 | | | | | | | | | |
| PB-11, 30' | | | 1217 | | | | | | | | | |
| PB-11, 35' | | | 1230 | | | | | | | | | |
| PB-11, 40' | | | 1232 | | | | | | | | | |
| PB-11, 45' | | | 1300 | | | | | | | | | |
| PB-11, 50 | | | 1302 | | | | | | | | | |
| PB-11, 55' | | | 1320 | | | | | | | | | |
| PB-11, 60' | | | 1322 | | | | | | | | | |
| S-1, 15' | | | 1400 | | | | | | | | | |
| S-1, 20' | | | 1402 | | | | | | | | | |
| S-1, 25' | | | 1415 | | | | | | | | | |
| S-1, 30' | | | 1421 | | | | | | | | | |
| S-1, 35' | | | 1430 | | | | | | | | | |
| TOTAL | | | | | | | | | | | | |

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 ☐




| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) |
|---|---|---|
| | 5/18/22 0840 | |
| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) |
| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) |

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP .3/1 THERM# IR8-2
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

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Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

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No. 2472

14917 CHAIN-OF-CUSTODY

7/7/2022 (Rev. 1)

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

DATE 5/18/2022 PAGE 2 OF 2

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME: Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR: DSG

Data Reported to

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MST/NM

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION HCl | $HNO_3$ | $H_2SO_4$ ☐ NaOH ☐ | ICE | UNPRESSERVED | ANALYSES | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1, 40' | | 5/16/22 | 1432 | S | 1 | | | | X | | | |
| S-2, 10' | | 5/17/22 | 0950 | | | | | | | | X | |
| S-2, 15' | | | 0952 | | | | | | | | | |
| S-2, 20' | | | 0954 | | | | | | | | | |
| S-2, 25' | | | 1024 | | | | | | | | | |
| S-2, 30' | | | 1026 | | | | | | | | | |
| PB-4, 15' | | | 1058 | | | | | | | | | |
| PB-4, 20' | | | 1100 | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | |

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 ☐

Loc: 880
14917

RELINQUISHED BY (Signature) DATE/TIME 5/18/22 0840 RECEIVED BY (Signature)

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

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

LABORATORY Xenco

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

**LABORATORY USE ONLY:**
RECEIVING TEMP 3/1.1 THERM# -2 IR6
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Page 18 of 19

Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

# Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-14917-1
SDG Number: 21-0105-08

**Login Number: 14917**
**List Number: 1**
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

# Appendix E

# Photographs




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.




Impacted area in pasture, viewing to the south.




Impacted area in pasture, viewing to the southeast.




Impacted area in pasture, viewing to the southwest.




Impacted area in pasture, viewing to the southeast.




Impacted area in drainage, viewing to the northeast.



Impacted area in drainage, viewing to the south.



Impacted area in drainage, viewing to the south.

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

| | |
|---|---|
| Incident ID | nAPP2135052895 |
| District RP | |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party Select Energy Services | OGRID 289068 |
| Contact Name Halie Butler | Contact Telephone 281-467-3153 |
| Contact email hbutler@selectenergy.com | Incident # *(assigned by OCD)* nAPP2135052895 |
| Contact mailing address P.O. Box 1715 Gainesville, TX 76241 | |

## Location of Release Source

Latitude 32.03643 Longitude -104.08854
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Boo Radley Com 701H, 702H, 703H | Site Type off-site |
| Date Release Discovered 12/8/2021 | API# *(if applicable)* |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| P | 16 | 26 S | 28 E | Eddy |

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

## Nature and Volume of Release

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

| | | |
|---|---|---|
| ☐ Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| ☑ Produced Water | Volume Released (bbls) Unknown | Volume Recovered (bbls) 0 bbls |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☑ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

Water tranfer line rupture

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nAPP2135052895 |
| District RP | |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☑ Yes ☐ No | If YES, for what reason(s) does the responsible party consider this a major release?<br><br>Unauthorized release, excluding gases, of 25 barrels or more |

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

NMOCD recieved notice of release on 12/9/2021

## Initial Response

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

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

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

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

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

Printed Name: Halie Butler
Title: Sr. Corporate Compliance and Enviromental Manager

Signature: HButler
Date: 6/30/2022

email: hbutler@selectenergy.com
Telephone: 281-467-3153

**OCD Only**

Received by:
Date:

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? | <50 (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 |
| District RP | |
| Facility ID | |
| Application ID | |

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

Printed Name: Halie Butler Title: Sr. Corporate Compliance and Enviromental Manager

Signature: HButler Date: 6/30/2022

Email: hbutler@selectenergy.com Telephone: 281-467-3153

**OCD Only**

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nAPP2135052895 |
| District RP | |
| Facility ID | |
| Application ID | |

# 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: Halie Butler  Title: Sr. Corporate Compliance and Enviromental Manager

Signature: HButler  Date: 6/30/2022

Email: hbutler@selectenergy.com  Telephone: 281-467-3153

**OCD Only**

Received by: _____  Date: _____

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

Signature: _____  Date: _____

# Tracking Number: nAPP2135052895
# Delineation Report and Remediation Plan
# Boo Radley Com. 701H, 702H, 703H
# Produced Water Release
Eddy County, New Mexico

Latitude: N 32.03643°
Longitude: W -104.08854°

LAI Project No. 21-105-08

June 29, 2022

Prepared for:
Select Energy Services, 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
Mark Larson
Certified Professional Geologist #10490

Daniel St. Germain
Daniel St. Germain
Staff Geologist

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# 1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Select Energy Services, 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) 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 rupture 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 acre. The initial C-141 was submitted to NMOCD District II on December 9, 2021, and was assigned incident number nAPP2135052895. Appendix A presents the 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.
- The capillary fringe was encountered at about 40 feet below ground surface (bgs) at sample location S-1 on May 18, 2021, indicating that groundwater is less than 50 feet bgs.

Appendix B presents a karst potential map. Appendix C presents the S-1 boring log.

## *1.3 Remediation Standards*

The following delineation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC for groundwater less than 50 feet bgs:

- 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 Re-Vegetation) requires the operator to restore the impacted surface area that existed prior to the release or their final land use.

## 2.0 DELINEATION

On December 20, 2021, LAI personnel used a stainless-steel hand auger to collect soil samples from nine (9) locations inside the spill area (S-1 through S-9) and at seven (7) locations outside the spill area (S-10 through S-16). The samples were collected from about 0.5 and 1-foot bgs at each sample location. The soil samples were delivered under chain of custody and preservation to Eurofins-Xenco Laboratories (Xenco) in Midland, Texas. Xenco analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW-846 Method 8021B, total petroleum hydrocarbons (TPH), including gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) by Method 8015M, and chloride by EPA Method 300.

Benzene, BTEX, and TPH were below the NMOCD delineation standards in Table 1 (19.15.29 NMAC) of 10 milligrams per kilogram (mg/Kg), 50 mg/Kg, and 100 mg/Kg, respectively. Chloride exceeded the NMOCD delineation limit of 600 mg/Kg in the following twelve (12) samples:

| Sample ID | Depth (ft) | Chloride (mg/Kg) |
|---|---|---|
| S-1 | 0.5 | 4,990 |
| S-1 | 1 | 2,230 |
| S-2 | 0.5 | 4,830 |
| S-2 | 1 | 966 |
| S-3 | 0.5 | 3,460 |
| S-5 | 0.5 | 5,220 |
| S-7 | 0.5 | 3,900 |
| S-7 | 1 | 3,440 |
| S-8 | 0.5 | 3,770 |
| S-8 | 1 | 2,570 |
| S-9 | 0.5 | 5,930 |
| S-9 | 1 | 3,580 |

Between January 24 and 27, 2022, LAI personnel used a Geoprobe® 7822DT direct push rig to further delineate chloride at sample locations S-1, S-2, S-7, S-8, and S-9. Soil samples were collected at an additional eleven (11) samples locations (PB-1 through PB-10) to assess the extent of the release and delineate the spill. The samples were collected from about one (1), three (3), five (5), and ten (10) feet bgs. A sample was collected from about 12 feet bgs at sample location S-1. The samples were delivered under chain of custody and preservation to Xenco and analyzed for BTEX, TPH, and chloride. Xenco reported that all samples were the delineation limits for BTEX and TPH. Chloride was reported above the delineation limit of 600 mg/Kg in the following samples:

| Sample ID | Depth (ft) | Chloride (mg/Kg) |
|---|---|---|
| S-1 | 1 | 1,940 |
| S-1 | 3 | 3,260 |
| S-1 | 5 | 1,180 |
| S-1 | 9 | 2,530 |
| S-1 | 12 | 1,010 |
| S-2 | 1 | 3,190 |
| S-2 | 3 | 2,100 |
| S-2 | 5 | 2,550 |
| S-2 | 9 | 10,200 |
| S-9 | 1 | 13,500 |
| PB-3 | 1 | 1,920 |
| PB-4 | 5 | 747 |
| PB-4 | 10 | 5,570 |
| PB-5 | 1 | 801 |
| PB-6 | 1 | 6,640 |
| PB-7 | 1 | 4,480 |
| PB-8 | 1 | 16,700 |

On May 17 and 18, 2022, Scarbrough Drilling, Inc. (SDI), under the supervision of LAI personnel, further delineated chloride at sample locations S-1, S-2, and PB-4 with an air rotary drilling rig. Samples were collected at five (5) foot intervals between approximately 15 and 40 feet bgs at S-1, 10 and 30 feet bgs at S-2, and 15 and 20 feet bgs at PB-4. Xenco analyzed the samples for chloride and reported concentrations in the deepest samples from sample locations S-1, S-2, and PB-4 below 600 mg/Kg, demonstrating that chloride was fully delineated for groundwater less than 50 feet bgs. Figure 2 presents a map showing the sample locations. Table 2 presents the delineation soil sample analytical data. Appendix D presents the laboratory reports.

## 3.0 REMEDIATION PLAN

Select proposes 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 10 feet bgs.

- Collect about 332 -5- point composite confirmation soil samples from the bottom and sidewalls of the excavation, or approximately 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 submitted to the NMOCD.

## 3.1 Variance Request

In accordance with 19.29.14(A) NMAC, Select requests a variance to install 20-mil thickness polyethylene liners in the bottom of the excavations encompassing locations S-1 (995 square feet) and S-2 (2,543 square feet). Following 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. Figure 3 presents the proposed excavation areas.

A closure report will be submitted to the NMOCD upon completion of the remediation. Select respectfully requests your approval of the remediation plan.

# 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**
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**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***

# Figures

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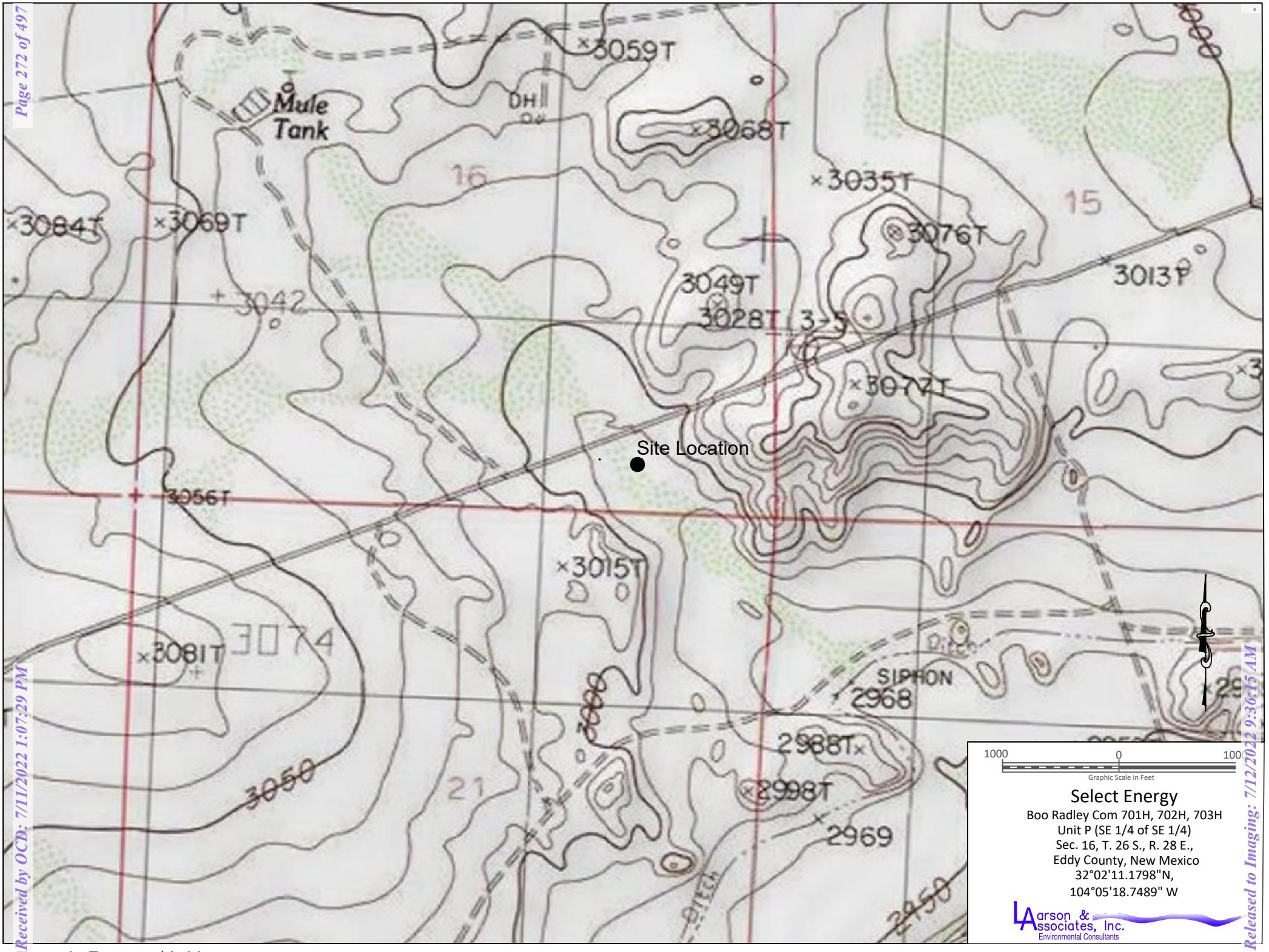



Figure 1 - Topographic Map

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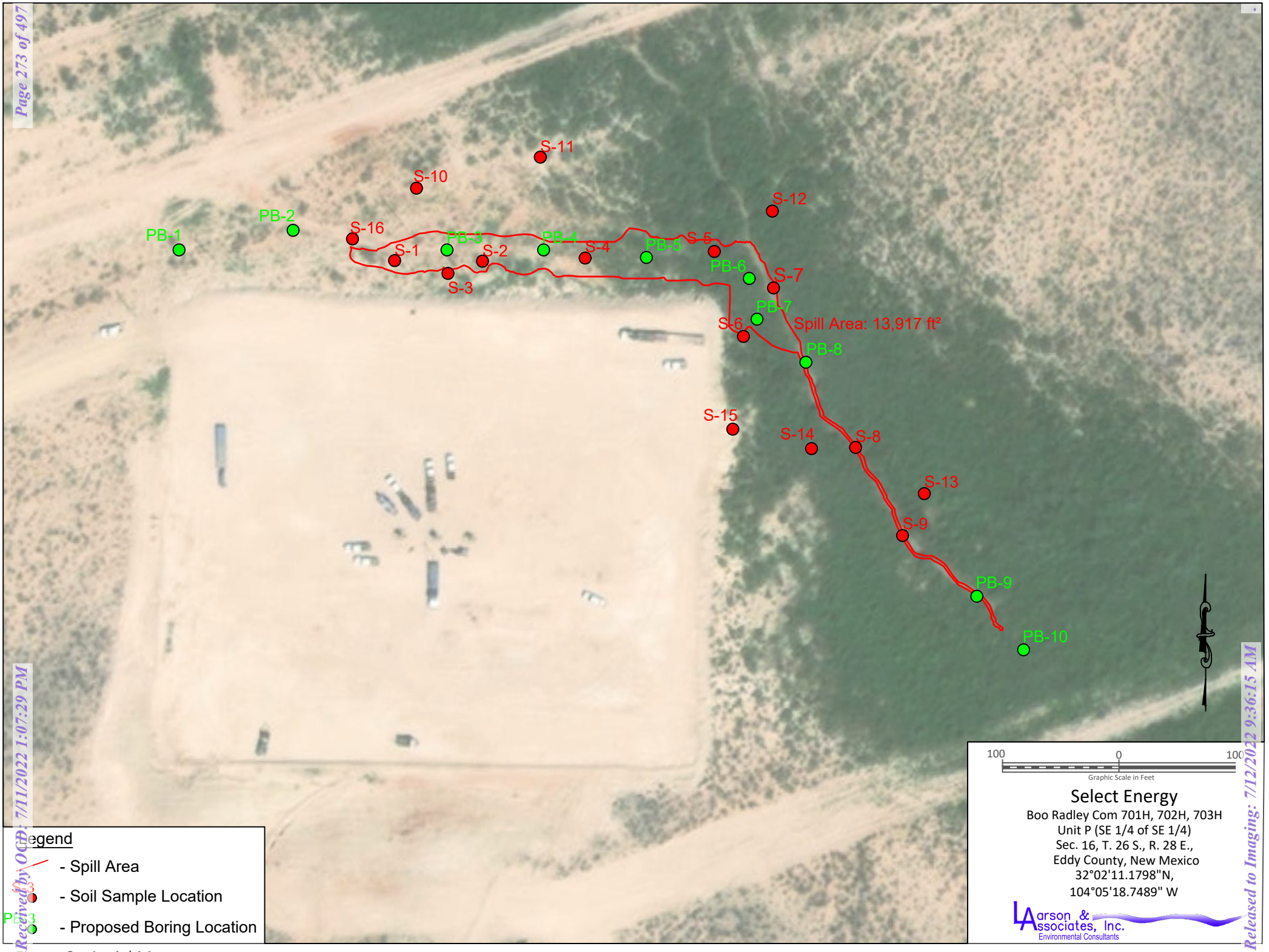



Figure 2 - Aerial Map

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Released to Imaging: 7/12/2022 9:36:15 AM

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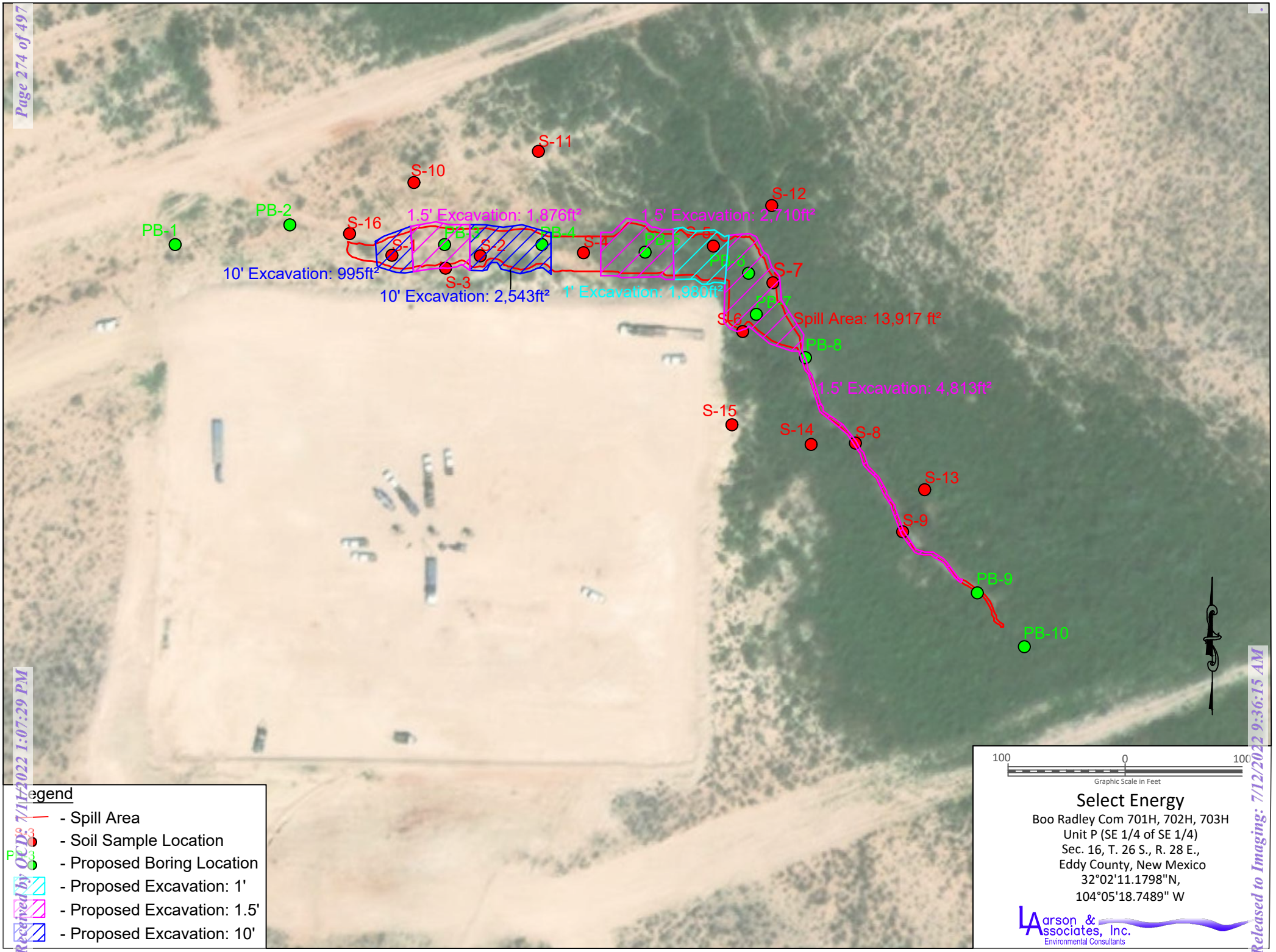



Figure 3 - Aerial Map Showing Proposed Excavation Areas

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Released to Imaging: 7/12/2022 9:36:15 AM

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

**QUESTIONS**

| **Location of Release Source**<br>*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**<br>*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**<br>*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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# State of New Mexico
# Energy, Minerals and Natural Resources
# Oil Conservation Division
# 1220 S. St Francis Dr.
# Santa Fe, NM 87505



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>SELECT ENERGY SERVICES, LLC<br>201 California Street<br>Gainesville, TX 76240 | OGRID:<br>289068 |
| | Action Number:<br>67556 |
| | Action Type:<br>[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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# State of New Mexico
# Energy, Minerals and Natural Resources
# Oil Conservation Division
# 1220 S. St Francis Dr.
# Santa Fe, NM 87505



## ACKNOWLEDGMENTS

| | |
|---|---|
| Operator:<br>SELECT ENERGY SERVICES, LLC<br>201 California Street<br>Gainesville, TX 76240 | OGRID:<br>289068 |
| | Action Number:<br>67556 |
| | Action Type:<br>[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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# State of New Mexico
# Energy, Minerals and Natural Resources
# Oil Conservation Division
# 1220 S. St Francis Dr.
# Santa Fe, NM 87505



## CONDITIONS

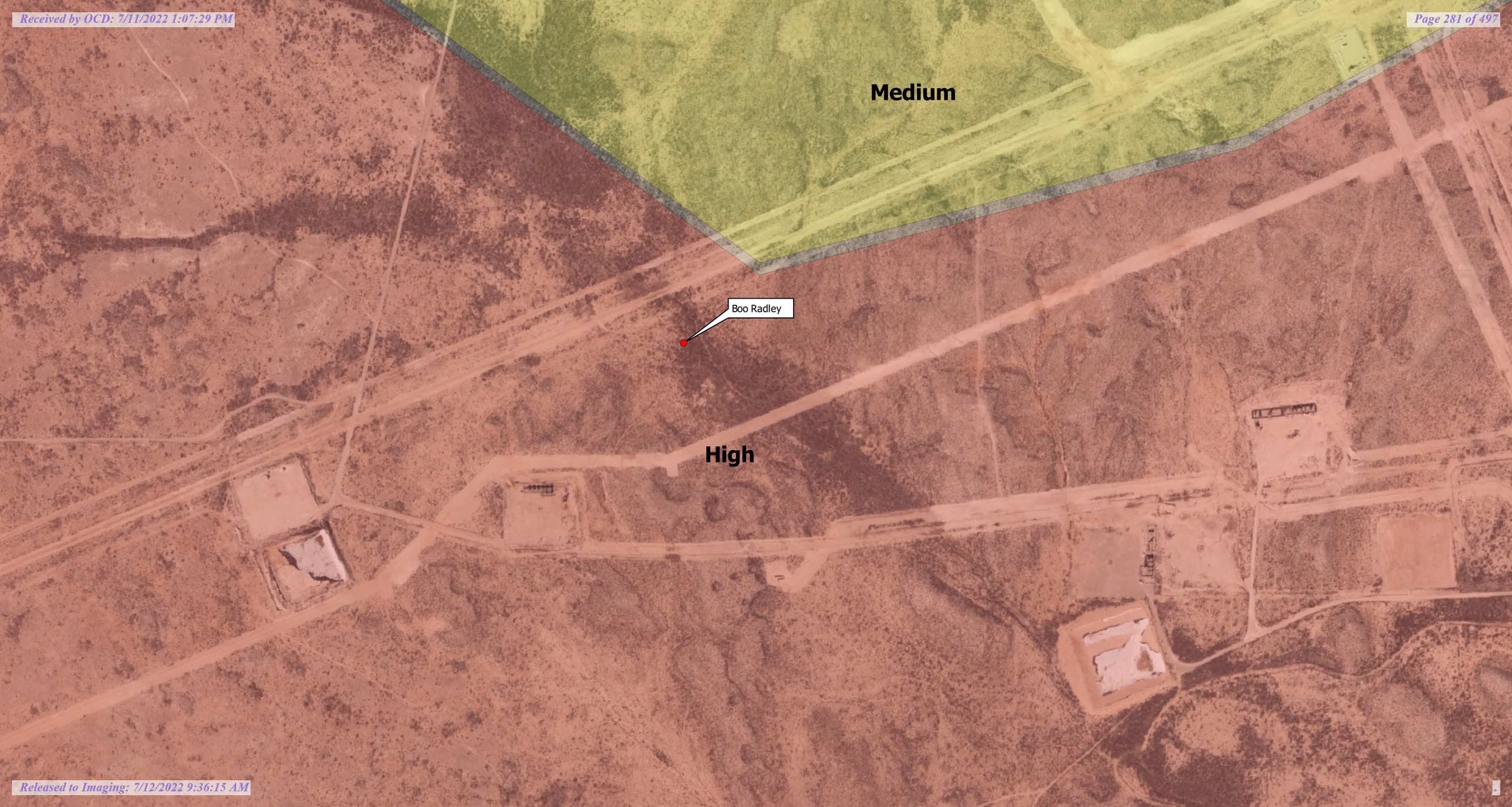
| | |
|---|---|
| Operator:<br>SELECT ENERGY SERVICES, LLC<br>201 California Street<br>Gainesville, TX 76240 | OGRID:<br>289068 |
| | Action Number:<br>67556 |
| | Action Type:<br>[NOTIFY] Notification Of Release (NOR) |

**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

# Karst Risk Potential


Medium
Boo Radley
High

# Appendix C

# Soil Boring Log

# BORING RECORD

Start: 13:50
Finish: 14:32

| GEOLOGIC UNIT | DEPTH | DESCRIPTION LITHOLOGIC | DESCRIPTION USCS | GRAPHIC LOG |
|---|---|---|---|---|
| | 15 | Caliche, 2.5YR 8/3, Pale Brown, With Small Amount of Gypsum | | |
| | 20 | 2.5YR 8/1, White, Well Indurated, With Small Amounts of Gypsum | Caliche | |
| | 25 | Silty Sand, 2.5YR 5/6, Red, Very Fine Grained Sand, Rounded, Sub Rounded, Well Sorted, With Very Small Amounts of Gypsum | | |
| | 30 | | SM | |
| | 35 | | | |
| | 40 | 10YR 6/4, Light Yellowish Brown, Very Fine Grained Sand, Rounded, Well Sorted, No Observable Gypsum | | |
| | | TD: 40' | | |
| | 45 | | | |
| | 50 | | | |
| | 55 | | | |

PID READING
PPM X _____
2 4 6 8 10 12 14 16 18

SAMPLE
NUMBER | PID READING | RECOVERY | DEPTH

REMARKS
BACKGROUND PID READING
SOIL : _____ PPM
SOIL : _____ PPM

ONE CONTINUOUS AUGER SAMPLER
STANDARD PENETRATION TEST
UNDISTURBED SAMPLE
WATER TABLE ( 24 HRS )
WATER TABLE ( TIME OF BORING )
LABORATORY TEST LOCATION
PENETROMETER (TONS/ SQ. FT )
NR NO RECOVERY

Larson & Associates, Inc.
Environmental Consultants

DRILL DATE : 5/16/2022
BORING NUMBER : S-1

JOB NUMBER : Select Energy/ 21-0105-08
HOLE DIAMETER : 5"
LOCATION : Boo Radley Com 701H, 702H, 703H
LAI GEOLOGIST : D. St. Germain
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

# Appendix D

# Laboratory Reports

eurofins | Environment Testing America



# ANALYTICAL REPORT

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

Laboratory Job ID: 880-9573-1
Laboratory Sample Delivery Group: 21-0105-08
Client Project/Site: Boo Radley

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

Attn: Mr. Mark J Larson

Holly Taylor

*Authorized for release by:*
*12/29/2021 2:28:39 PM*

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-9573-1
SDG: 21-0105-08

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# Definitions/Glossary

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

Job ID: 880-9573-1
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, 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, high biased. |
| *1 | LCS/LCSD RPD exceeds control limits. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

### HPLC/IC

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

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

# Definitions/Glossary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Glossary (Continued)

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

# Case Narrative

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Job ID: 880-9573-1

### Laboratory: Eurofins Xenco, Midland

**Narrative**

**Job Narrative**
**880-9573-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 12/21/2021 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -4.5º C.

**GC VOA**
Method 8021B: Surrogate recovery for the following samples were outside control limits: S-11,0.5' (880-9573-21), S-14,0.5' (880-9573-27) and S-16,1' (880-9573-32). 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: S-1,0.5' (880-9573-1), S-7,1' (880-9573-14) and S-8,0.5' (880-9573-15). 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 880-15272 and analytical batch 880-15228 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**
Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-15389 and analytical batch 880-15413 was outside the upper control limits.

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-15385 and analytical batch 880-15413 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

Method 8015B NM: The laboratory control sample (LCS) associated with preparation batch 880-15549 and analytical batch 880-15541 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.

**General Chemistry**
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-15261 and 880-15261 and analytical batch 880-15645 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

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

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-1,0.5'

**Date Collected: 12/20/21 12:50**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-1

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:42 | 1 |
| Toluene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:42 | 1 |
| Ethylbenzene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:42 | 1 |
| m,p-Xylenes | <0.00399 | U F1 | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:42 | 1 |
| o-Xylene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:42 | 1 |
| Xylenes, Total | <0.00399 | U F1 | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *137* | *S1+* | *70 - 130* | *12/21/21 14:20* | *12/22/21 00:42* | *1* |
| *1,4-Difluorobenzene (Surr)* | *122* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 00:42* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F1 F2 | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 12:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 12:06 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 12:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 12:06* | *1* |
| *o-Terphenyl (Surr)* | *114* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 12:06* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **4990** | | 24.9 | | mg/Kg | | | 12/28/21 11:23 | 5 |

## Client Sample ID: S-1,1'

**Date Collected: 12/20/21 12:52**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-2

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:02 | 1 |
| **Toluene** | **0.00208** | | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:02 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:02 | 1 |
| **m,p-Xylenes** | **0.00635** | | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:02 | 1 |
| **o-Xylene** | **0.00685** | | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:02 | 1 |
| **Xylenes, Total** | **0.0132** | | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *120* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 01:02* | *1* |
| *1,4-Difluorobenzene (Surr)* | *80* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 01:02* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-1,1'

**Date Collected: 12/20/21 12:52**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-2**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0153** | | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 13:23 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 13:23 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 13:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *108* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 13:23* | *1* |
| *o-Terphenyl (Surr)* | *120* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 13:23* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **2230** | | 24.8 | | mg/Kg | | | 12/28/21 11:33 | 5 |

## Client Sample ID: S-2,0.5'

**Date Collected: 12/20/21 13:04**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-3**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:23 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:23 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:23 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:23 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:23 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 01:23* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 01:23* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 13:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 13:42 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-2,0.5'
**Date Collected: 12/20/21 13:04**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-3
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 13:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 13:42* | *1* |
| *o-Terphenyl (Surr)* | *115* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 13:42* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **4830** | | 25.2 | | mg/Kg | | | 12/28/21 11:43 | 5 |

## Client Sample ID: S-2,1'
**Date Collected: 12/20/21 13:06**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-4
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:43 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:43 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:43 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:43 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:43 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 01:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 01:43* | *1* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 01:43* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *1 | 50.0 | | mg/Kg | | 12/22/21 14:29 | 12/24/21 02:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 14:29 | 12/24/21 02:38 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 14:29 | 12/24/21 02:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* | *12/22/21 14:29* | *12/24/21 02:38* | *1* |
| *o-Terphenyl (Surr)* | *121* | | *70 - 130* | *12/22/21 14:29* | *12/24/21 02:38* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **966** | | 4.99 | | mg/Kg | | | 12/28/21 12:12 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-3,0.5'

**Date Collected: 12/20/21 13:12**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-5

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:04 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:04 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:04 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:04 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:04 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 02:04* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 02:04* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 01:24 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 01:24 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 01:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *103* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 01:24* | *1* |
| *o-Terphenyl (Surr)* | *94* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 01:24* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3460** | | 24.9 | | mg/Kg | | | 12/28/21 12:22 | 5 |

## Client Sample ID: S-3,1'

**Date Collected: 12/20/21 13:14**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-6

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:24 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:24 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:24 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:24 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:24 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 02:24* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 02:24* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-3,1'
**Date Collected: 12/20/21 13:14**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-6
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **85.9** | | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 14:42 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **85.9** | | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 14:42 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 14:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *105* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 14:42* | *1* |
| *o-Terphenyl (Surr)* | *122* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 14:42* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **232** | | 4.95 | | mg/Kg | | | 12/28/21 12:32 | 1 |

## Client Sample ID: S-4,0.5'
**Date Collected: 12/20/21 13:25**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-7
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:45 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:45 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:45 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:45 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:45 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 02:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 02:45* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 02:45* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:02 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:02 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-4,0.5'
**Date Collected: 12/20/21 13:25**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-7
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *101* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 15:02* | *1* |
| *o-Terphenyl (Surr)* | *119* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 15:02* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **317** | | 5.01 | | mg/Kg | | | 12/28/21 12:42 | 1 |

## Client Sample ID: S-4,1'
**Date Collected: 12/20/21 13:27**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-8
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:05 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:05 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:05 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:05 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:05 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *118* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 03:05* | *1* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 03:05* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:22 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:22 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *96* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 15:22* | *1* |
| *o-Terphenyl (Surr)* | *114* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 15:22* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **281** | | 4.98 | | mg/Kg | | | 12/28/21 12:52 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-5,0.5'

**Date Collected: 12/20/21 13:35**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-9

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:26 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:26 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:26 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:26 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:26 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 03:26* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 03:26* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:42 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 15:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *116* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 15:42* | *1* |
| *o-Terphenyl (Surr)* | *139* | *S1+* | *70 - 130* | *12/22/21 15:41* | *12/23/21 15:42* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **5220** | | 25.0 | | mg/Kg | | | 12/28/21 13:01 | 5 |

## Client Sample ID: S-5,1'

**Date Collected: 12/20/21 13:37**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-10

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:46 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:46 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:46 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:46 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:46 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 03:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 03:46* | *1* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 03:46* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-5,1'

**Date Collected: 12/20/21 13:37**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-10**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 16:02 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 16:02 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 16:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *92* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 16:02* | *1* |
| *o-Terphenyl (Surr)* | *109* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 16:02* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **204** | | 5.02 | | mg/Kg | | | 12/28/21 13:31 | 1 |

## Client Sample ID: S-6,0.5'

**Date Collected: 12/20/21 13:45**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-11**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:10 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:10 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:10 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:10 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:10 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *119* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 05:10* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 05:10* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 16:41 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 16:41 | 1 |

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# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-6,0.5'
**Date Collected: 12/20/21 13:45**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-11
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 16:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *115* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 16:41* | *1* |
| *o-Terphenyl (Surr)* | *132* | *S1+* | *70 - 130* | *12/22/21 15:41* | *12/23/21 16:41* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **33.5** | | 4.98 | | mg/Kg | | | 12/28/21 13:41 | 1 |

## Client Sample ID: S-6,1'
**Date Collected: 12/20/21 13:47**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-12
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:30 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:30 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:30 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:30 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:30 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *124* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 05:30* | *1* |
| *1,4-Difluorobenzene (Surr)* | *79* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 05:30* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:01 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:01 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *101* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 17:01* | *1* |
| *o-Terphenyl (Surr)* | *120* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 17:01* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **17.2** | | 4.97 | | mg/Kg | | | 12/28/21 14:11 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-7,0.5'

**Date Collected: 12/20/21 13:55**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-13

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:51 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:51 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:51 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:51 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:51 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 05:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *133* | *S1+* | *70 - 130* | *12/21/21 14:20* | *12/22/21 05:51* | *1* |
| *1,4-Difluorobenzene (Surr)* | *80* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 05:51* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:21 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *115* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 17:21* | *1* |
| *o-Terphenyl (Surr)* | *138* | *S1+* | *70 - 130* | *12/22/21 15:41* | *12/23/21 17:21* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3900** | | 24.8 | | mg/Kg | | | 12/28/21 14:20 | 5 |

## Client Sample ID: S-7,1'

**Date Collected: 12/20/21 13:57**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-14

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:11 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:11 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:11 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:11 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:11 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *153* | *S1+* | *70 - 130* | *12/21/21 14:20* | *12/22/21 06:11* | *1* |
| *1,4-Difluorobenzene (Surr)* | *116* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 06:11* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-7,1'

**Date Collected: 12/20/21 13:57**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-14**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:41 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:41 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 17:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *118* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 17:41* | *1* |
| *o-Terphenyl (Surr)* | *137* | *S1+* | *70 - 130* | *12/22/21 15:41* | *12/23/21 17:41* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3440** | | 24.8 | | mg/Kg | | | 12/28/21 14:30 | 5 |

## Client Sample ID: S-8,0.5'

**Date Collected: 12/20/21 14:10**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-15**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:32 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:32 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:32 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:32 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:32 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *134* | *S1+* | *70 - 130* | *12/21/21 14:20* | *12/22/21 06:32* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 06:32* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:00 | 1 |

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# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-8,0.5'
**Date Collected: 12/20/21 14:10**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-15
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *128* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 18:00* | *1* |
| *o-Terphenyl (Surr)* | *148* | *S1+* | *70 - 130* | *12/22/21 15:41* | *12/23/21 18:00* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3770** | | 25.0 | | mg/Kg | | | 12/28/21 14:40 | 5 |

## Client Sample ID: S-8,1'
**Date Collected: 12/20/21 14:12**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-16
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:52 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:52 | 1 |
| **Ethylbenzene** | **0.00272** | | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:52 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:52 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:52 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 06:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 06:52* | *1* |
| *1,4-Difluorobenzene (Surr)* | *85* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 06:52* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:20 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:20 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *121* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 18:20* | *1* |
| *o-Terphenyl (Surr)* | *141* | *S1+* | *70 - 130* | *12/22/21 15:41* | *12/23/21 18:20* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **2570** | | 25.0 | | mg/Kg | | | 12/28/21 14:50 | 5 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-9,0.5'

**Date Collected: 12/20/21 14:22**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-17

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:13 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:13 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:13 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:13 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:13 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 07:13* | *1* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 07:13* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:40 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:40 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 18:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *104* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 18:40* | *1* |
| *o-Terphenyl (Surr)* | *122* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 18:40* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **5930** | | 49.9 | | mg/Kg | | | 12/28/21 15:00 | 10 |

## Client Sample ID: S-9,1'

**Date Collected: 12/20/21 14:24**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-18

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:33 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:33 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:33 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:33 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:33 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *116* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 07:33* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 07:33* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-9,1'
**Date Collected: 12/20/21 14:24**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-18
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:00 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *107* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 19:00* | *1* |
| *o-Terphenyl (Surr)* | *124* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 19:00* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3580** | | 24.9 | | mg/Kg | | | 12/28/21 15:10 | 5 |

## Client Sample ID: S-10,0.5'
**Date Collected: 12/20/21 14:30**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-19
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:53 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:53 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:53 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:53 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:53 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 07:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *125* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 07:53* | *1* |
| *1,4-Difluorobenzene (Surr)* | *86* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 07:53* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:19 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:19 | 1 |

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# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-10,0.5'
**Date Collected: 12/20/21 14:30**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-19
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *97* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 19:19* | *1* |
| *o-Terphenyl (Surr)* | *107* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 19:19* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **25.5** | **F1** | 5.02 | | mg/Kg | | | 12/28/21 15:28 | 1 |

## Client Sample ID: S-10,1'
**Date Collected: 12/20/21 14:32**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-20
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 08:14 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 08:14 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 08:14 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 08:14 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 08:14 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 08:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 08:14* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 08:14* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:39 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:39 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 19:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *121* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 19:39* | *1* |
| *o-Terphenyl (Surr)* | *130* | | *70 - 130* | *12/22/21 15:41* | *12/23/21 19:39* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **29.3** | | 5.05 | | mg/Kg | | | 12/28/21 17:08 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-11,0.5'

**Date Collected: 12/20/21 14:45**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-21

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:16 | 1 |
| **Toluene** | **0.00381** | | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:16 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:16 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:16 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:16 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *145* | *S1+* | *70 - 130* | *12/21/21 14:23* | *12/22/21 00:16* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 00:16* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 12/22/21 12:58 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 17:26 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 17:26 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 17:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *104* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 17:26* | *1* |
| *o-Terphenyl (Surr)* | *90* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 17:26* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **21.3** | | 4.97 | | mg/Kg | | | 12/28/21 17:20 | 1 |

## Client Sample ID: S-11,1'

**Date Collected: 12/20/21 14:47**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-22

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.00443** | | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:37 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:37 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:37 | 1 |
| **m,p-Xylenes** | **0.00416** | | 0.00399 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:37 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:37 | 1 |
| **Xylenes, Total** | **0.00416** | | 0.00399 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *121* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 00:37* | *1* |
| *1,4-Difluorobenzene (Surr)* | *84* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 00:37* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-11,1'
**Date Collected: 12/20/21 14:47**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-22
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00859** | | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 17:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 17:47 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 17:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *103* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 17:47* | *1* |
| *o-Terphenyl (Surr)* | *89* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 17:47* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.95 | U | 4.95 | | mg/Kg | | | 12/28/21 17:32 | 1 |

## Client Sample ID: S-12,0.5'
**Date Collected: 12/20/21 14:55**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-23
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.00199** | | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:57 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:57 | 1 |
| **Ethylbenzene** | **0.00734** | | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:57 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:57 | 1 |
| **o-Xylene** | **0.00341** | | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:57 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 00:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 00:57* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 00:57* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0127** | | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:08 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:08 | 1 |

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# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-12,0.5'
**Date Collected: 12/20/21 14:55**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-23
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *97* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 18:08* | *1* |
| *o-Terphenyl (Surr)* | *83* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 18:08* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.04 | U | 5.04 | | mg/Kg | | | 12/28/21 17:44 | 1 |

## Client Sample ID: S-12,1'
**Date Collected: 12/20/21 14:57**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-24
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:17 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:17 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:17 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:17 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:17 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *121* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 01:17* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 01:17* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:29 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:29 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *100* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 18:29* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 18:29* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.99 | U | 4.99 | | mg/Kg | | | 12/28/21 18:30 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-13,0.5'

**Date Collected: 12/20/21 15:05**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-25

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:38 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:38 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:38 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:38 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:38 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *127* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 01:38* | *1* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 01:38* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:50 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:50 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 18:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 18:50* | *1* |
| *o-Terphenyl (Surr)* | *90* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 18:50* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **15.0** | | 4.98 | | mg/Kg | | | 12/29/21 11:55 | 1 |

## Client Sample ID: S-13,1'

**Date Collected: 12/20/21 15:07**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-26

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:58 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:58 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:58 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:58 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:58 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 01:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *116* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 01:58* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 01:58* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-13,1'
**Date Collected: 12/20/21 15:07**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-26
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:11 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:11 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *103* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 19:11* | *1* |
| *o-Terphenyl (Surr)* | *91* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 19:11* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **6.35** | | 4.95 | | mg/Kg | | | 12/28/21 20:22 | 1 |

## Client Sample ID: S-14,0.5'
**Date Collected: 12/20/21 15:15**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-27
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:19 | 1 |
| **Toluene** | **0.00441** | | 0.00201 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:19 | 1 |
| **Ethylbenzene** | **0.00304** | | 0.00201 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:19 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:19 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:19 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *134* | *S1+* | *70 - 130* | *12/21/21 14:23* | *12/22/21 02:19* | *1* |
| *1,4-Difluorobenzene (Surr)* | *105* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 02:19* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00745** | | 0.00402 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:31 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *+ | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:31 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-14,0.5'
**Date Collected: 12/20/21 15:15**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-27
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 19:31* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 19:31* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **9.26** | | 5.01 | | mg/Kg | | | 12/28/21 20:34 | 1 |

## Client Sample ID: S-14,1'
**Date Collected: 12/20/21 15:17**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-28
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:39 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:39 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:39 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:39 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:39 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 02:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 02:39* | *1* |
| *1,4-Difluorobenzene (Surr)* | *86* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 02:39* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:52 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *+ | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:52 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 19:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 19:52* | *1* |
| *o-Terphenyl (Surr)* | *88* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 19:52* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **7.15** | | 4.98 | | mg/Kg | | | 12/28/21 20:46 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-15,0.5'
**Date Collected: 12/20/21 15:30**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-29
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:00 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:00 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:00 | 1 |
| **m,p-Xylenes** | **0.00403** | | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:00 | 1 |
| **o-Xylene** | **0.00786** | | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:00 | 1 |
| **Xylenes, Total** | **0.0119** | | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 03:00* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 03:00* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0119** | | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:00 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *95* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 00:00* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 00:00* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **78.2** | **F1** | 4.99 | | mg/Kg | | | 12/28/21 20:58 | 1 |

## Client Sample ID: S-15,1'
**Date Collected: 12/20/21 15:32**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-30
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:20 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:20 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:20 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:20 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:20 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 03:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *87* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 03:20* | *1* |
| *1,4-Difluorobenzene (Surr)* | *81* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 03:20* | *1* |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-15,1'
**Date Collected: 12/20/21 15:32**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-30
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:21 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *107* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 00:21* | *1* |
| *o-Terphenyl (Surr)* | *95* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 00:21* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **43.9** | | 5.02 | | mg/Kg | | | 12/28/21 21:33 | 1 |

## Client Sample ID: S-16,0.5'
**Date Collected: 12/20/21 15:40**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-31
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.00278** | | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:10 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:10 | 1 |
| **Ethylbenzene** | **0.00312** | | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:10 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:10 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:10 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 05:10* | *1* |
| *1,4-Difluorobenzene (Surr)* | *89* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 05:10* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00590** | | 0.00398 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:42 | 1 |

# Client Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-16,0.5'
**Date Collected: 12/20/21 15:40**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-31
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 00:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *96* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 00:42* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 00:42* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.98 | U | 4.98 | | mg/Kg | | | 12/28/21 21:45 | 1 |

## Client Sample ID: S-16,1'
**Date Collected: 12/20/21 15:42**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-32
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:31 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:31 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:31 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:31 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:31 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 12/21/21 14:23 | 12/22/21 05:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *138* | *S1+* | *70 - 130* | *12/21/21 14:23* | *12/22/21 05:31* | *1* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* | *12/21/21 14:23* | *12/22/21 05:31* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 12/29/21 09:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/29/21 09:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 01:03 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 01:03 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/23/21 14:53 | 12/25/21 01:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *98* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 01:03* | *1* |
| *o-Terphenyl (Surr)* | *88* | | *70 - 130* | *12/23/21 14:53* | *12/25/21 01:03* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.97 | U | 4.97 | | mg/Kg | | | 12/28/21 22:26 | 1 |

# Surrogate Summary

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

Job ID: 880-9573-1
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) |
| 880-9573-1 | S-1,0.5' | 137 S1+ | 122 |
| 880-9573-1 MS | S-1,0.5' | 110 | 107 |
| 880-9573-1 MSD | S-1,0.5' | 109 | 105 |
| 880-9573-2 | S-1,1' | 120 | 80 |
| 880-9573-3 | S-2,0.5' | 115 | 102 |
| 880-9573-4 | S-2,1' | 113 | 106 |
| 880-9573-5 | S-3,0.5' | 108 | 109 |
| 880-9573-6 | S-3,1' | 109 | 103 |
| 880-9573-7 | S-4,0.5' | 103 | 100 |
| 880-9573-8 | S-4,1' | 118 | 111 |
| 880-9573-9 | S-5,0.5' | 109 | 108 |
| 880-9573-10 | S-5,1' | 111 | 101 |
| 880-9573-11 | S-6,0.5' | 119 | 108 |
| 880-9573-12 | S-6,1' | 124 | 79 |
| 880-9573-13 | S-7,0.5' | 133 S1+ | 80 |
| 880-9573-14 | S-7,1' | 153 S1+ | 116 |
| 880-9573-15 | S-8,0.5' | 134 S1+ | 103 |
| 880-9573-16 | S-8,1' | 110 | 85 |
| 880-9573-17 | S-9,0.5' | 111 | 97 |
| 880-9573-18 | S-9,1' | 116 | 109 |
| 880-9573-19 | S-10,0.5' | 125 | 86 |
| 880-9573-20 | S-10,1' | 109 | 107 |
| 880-9573-21 | S-11,0.5' | 145 S1+ | 102 |
| 880-9573-21 MS | S-11,0.5' | 125 | 101 |
| 880-9573-21 MSD | S-11,0.5' | 112 | 98 |
| 880-9573-22 | S-11,1' | 121 | 84 |
| 880-9573-23 | S-12,0.5' | 123 | 99 |
| 880-9573-24 | S-12,1' | 121 | 109 |
| 880-9573-25 | S-13,0.5' | 127 | 111 |
| 880-9573-26 | S-13,1' | 116 | 93 |
| 880-9573-27 | S-14,0.5' | 134 S1+ | 105 |
| 880-9573-28 | S-14,1' | 111 | 86 |
| 880-9573-29 | S-15,0.5' | 115 | 103 |
| 880-9573-30 | S-15,1' | 87 | 81 |
| 880-9573-31 | S-16,0.5' | 115 | 89 |
| 880-9573-32 | S-16,1' | 138 S1+ | 96 |
| LCS 880-15272/1-A | Lab Control Sample | 97 | 106 |
| LCS 880-15273/1-A | Lab Control Sample | 113 | 103 |
| LCSD 880-15272/2-A | Lab Control Sample Dup | 104 | 85 |
| LCSD 880-15273/2-A | Lab Control Sample Dup | 110 | 96 |
| MB 880-15225/5-A | Method Blank | 125 | 105 |
| MB 880-15225/5-A | Method Blank | 115 | 104 |
| MB 880-15272/5-A | Method Blank | 100 | 104 |
| MB 880-15273/5-A | Method Blank | 121 | 93 |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

# Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-9573-1
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) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) | | | | | | | | |
| 880-9573-1 | S-1,0.5' | 102 | 114 | | | | | | | | |
| 880-9573-1 MS | S-1,0.5' | 102 | 100 | | | | | | | | |
| 880-9573-1 MSD | S-1,0.5' | 99 | 99 | | | | | | | | |
| 880-9573-2 | S-1,1' | 108 | 120 | | | | | | | | |
| 880-9573-3 | S-2,0.5' | 102 | 115 | | | | | | | | |
| 880-9573-4 | S-2,1' | 102 | 121 | | | | | | | | |
| 880-9573-5 | S-3,0.5' | 103 | 94 | | | | | | | | |
| 880-9573-6 | S-3,1' | 105 | 122 | | | | | | | | |
| 880-9573-7 | S-4,0.5' | 101 | 119 | | | | | | | | |
| 880-9573-8 | S-4,1' | 96 | 114 | | | | | | | | |
| 880-9573-9 | S-5,0.5' | 116 | 139 S1+ | | | | | | | | |
| 880-9573-10 | S-5,1' | 92 | 109 | | | | | | | | |
| 880-9573-11 | S-6,0.5' | 115 | 132 S1+ | | | | | | | | |
| 880-9573-12 | S-6,1' | 101 | 120 | | | | | | | | |
| 880-9573-13 | S-7,0.5' | 115 | 138 S1+ | | | | | | | | |
| 880-9573-14 | S-7,1' | 118 | 137 S1+ | | | | | | | | |
| 880-9573-15 | S-8,0.5' | 128 | 148 S1+ | | | | | | | | |
| 880-9573-16 | S-8,1' | 121 | 141 S1+ | | | | | | | | |
| 880-9573-17 | S-9,0.5' | 104 | 122 | | | | | | | | |
| 880-9573-18 | S-9,1' | 107 | 124 | | | | | | | | |
| 880-9573-19 | S-10,0.5' | 97 | 107 | | | | | | | | |
| 880-9573-20 | S-10,1' | 121 | 130 | | | | | | | | |
| 880-9573-21 | S-11,0.5' | 104 | 90 | | | | | | | | |
| 880-9573-22 | S-11,1' | 103 | 89 | | | | | | | | |
| 880-9573-23 | S-12,0.5' | 97 | 83 | | | | | | | | |
| 880-9573-24 | S-12,1' | 100 | 86 | | | | | | | | |
| 880-9573-25 | S-13,0.5' | 102 | 90 | | | | | | | | |
| 880-9573-26 | S-13,1' | 103 | 91 | | | | | | | | |
| 880-9573-27 | S-14,0.5' | 102 | 87 | | | | | | | | |
| 880-9573-28 | S-14,1' | 102 | 88 | | | | | | | | |
| 880-9573-29 | S-15,0.5' | 95 | 86 | | | | | | | | |
| 880-9573-30 | S-15,1' | 107 | 95 | | | | | | | | |
| 880-9573-31 | S-16,0.5' | 96 | 87 | | | | | | | | |
| 880-9573-32 | S-16,1' | 98 | 88 | | | | | | | | |
| 880-9652-A-1-F MS | Matrix Spike | 92 | 86 | | | | | | | | |
| 880-9652-A-1-G MSD | Matrix Spike Duplicate | 92 | 87 | | | | | | | | |
| 880-9681-A-1-D MS | Matrix Spike | 95 | 76 | | | | | | | | |
| 880-9681-A-1-E MSD | Matrix Spike Duplicate | 99 | 73 | | | | | | | | |
| 890-1740-A-1-D MS | Matrix Spike | 96 | 97 | | | | | | | | |
| 890-1740-A-1-E MSD | Matrix Spike Duplicate | 94 | 96 | | | | | | | | |
| LCS 880-15385/2-A | Lab Control Sample | 116 | 125 | | | | | | | | |
| LCS 880-15389/2-A | Lab Control Sample | 115 | 125 | | | | | | | | |
| LCSD 880-15385/3-A | Lab Control Sample Dup | 98 | 109 | | | | | | | | |
| LCSD 880-15389/3-A | Lab Control Sample Dup | 100 | 112 | | | | | | | | |
| MB 880-15385/1-A | Method Blank | 152 S1+ | 177 S1+ | | | | | | | | |
| MB 880-15389/1-A | Method Blank | 147 S1+ | 174 S1+ | | | | | | | | |

**Surrogate Legend**

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

# Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-9573-1
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) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO2 (70-130) | OTPH2 (70-130) | | | | | | | | |
| LCS 880-15481/2-A | Lab Control Sample | 112 | 110 | | | | | | | | |
| LCS 880-15549/2-A | Lab Control Sample | 112 | 87 | | | | | | | | |
| LCSD 880-15481/3-A | Lab Control Sample Dup | 130 | 129 | | | | | | | | |
| LCSD 880-15549/3-A | Lab Control Sample Dup | 113 | 100 | | | | | | | | |
| MB 880-15481/1-A | Method Blank | 122 | 119 | | | | | | | | |
| MB 880-15549/1-A | Method Blank | 98 | 89 | | | | | | | | |

**Surrogate Legend**

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

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: MB 880-15225/5-A**
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15225**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:28 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:28 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:28 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:28 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:28 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:28 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *12/21/21 07:13* | *12/21/21 10:28* | *1* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* | *12/21/21 07:13* | *12/21/21 10:28* | *1* |

**Lab Sample ID: MB 880-15225/5-A**
**Matrix: Solid**
**Analysis Batch: 15227**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15225**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:35 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:35 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:35 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:35 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:35 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 07:13 | 12/21/21 10:35 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *125* | | *70 - 130* | *12/21/21 07:13* | *12/21/21 10:35* | *1* |
| *1,4-Difluorobenzene (Surr)* | *105* | | *70 - 130* | *12/21/21 07:13* | *12/21/21 10:35* | *1* |

**Lab Sample ID: MB 880-15272/5-A**
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15272**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:20 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:20 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:20 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:20 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:20 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 14:20 | 12/22/21 00:20 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 00:20* | *1* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* | *12/21/21 14:20* | *12/22/21 00:20* | *1* |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: LCS 880-15272/1-A**
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15272**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1076 | | mg/Kg | | 108 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09544 | | mg/Kg | | 95 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.08871 | | mg/Kg | | 89 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.1786 | | mg/Kg | | 89 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.09641 | | mg/Kg | | 96 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* |

**Lab Sample ID: LCSD 880-15272/2-A**
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 15272**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1009 | | mg/Kg | | 101 | 70 - 130 | 6 | 35 |
| Toluene | | | 0.100 | 0.09505 | | mg/Kg | | 95 | 70 - 130 | 0 | 35 |
| Ethylbenzene | | | 0.100 | 0.08889 | | mg/Kg | | 89 | 70 - 130 | 0 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1842 | | mg/Kg | | 92 | 70 - 130 | 3 | 35 |
| o-Xylene | | | 0.100 | 0.09257 | | mg/Kg | | 93 | 70 - 130 | 4 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *85* | | *70 - 130* |

**Lab Sample ID: 880-9573-1 MS**
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: S-1,0.5'**
**Prep Type: Total/NA**
**Prep Batch: 15272**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 | 0.0998 | 0.05600 | F1 | mg/Kg | | 56 | 70 - 130 | | |
| Toluene | <0.00200 | U F1 | 0.0998 | 0.05119 | F1 | mg/Kg | | 50 | 70 - 130 | | |
| Ethylbenzene | <0.00200 | U F1 | 0.0998 | 0.05120 | F1 | mg/Kg | | 51 | 70 - 130 | | |
| m,p-Xylenes | <0.00399 | U F1 | 0.200 | 0.1078 | F1 | mg/Kg | | 54 | 70 - 130 | | |
| o-Xylene | <0.00200 | U F1 | 0.0998 | 0.05958 | F1 | mg/Kg | | 60 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* |

**Lab Sample ID: 880-9573-1 MSD**
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: S-1,0.5'**
**Prep Type: Total/NA**
**Prep Batch: 15272**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 | 0.0994 | 0.05780 | F1 | mg/Kg | | 58 | 70 - 130 | 3 | 35 |
| Toluene | <0.00200 | U F1 | 0.0994 | 0.04825 | F1 | mg/Kg | | 48 | 70 - 130 | 6 | 35 |
| Ethylbenzene | <0.00200 | U F1 | 0.0994 | 0.04899 | F1 | mg/Kg | | 49 | 70 - 130 | 4 | 35 |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: 880-9573-1 MSD**
**Matrix: Solid**
**Analysis Batch: 15228**

**Client Sample ID: S-1,0.5'**
**Prep Type: Total/NA**
**Prep Batch: 15272**

| 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 | 0.199 | 0.1006 | F1 | mg/Kg | | 51 | 70 - 130 | 7 | 35 |
| o-Xylene | <0.00200 | U F1 | 0.0994 | 0.05696 | F1 | mg/Kg | | 57 | 70 - 130 | 5 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *105* | | *70 - 130* |

**Lab Sample ID: MB 880-15273/5-A**
**Matrix: Solid**
**Analysis Batch: 15227**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15273**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/21/21 23:47 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/21/21 23:47 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/21/21 23:47 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 14:23 | 12/21/21 23:47 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/21/21 14:23 | 12/21/21 23:47 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 12/21/21 14:23 | 12/21/21 23:47 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *121* | | *70 - 130* | *12/21/21 14:23* | *12/21/21 23:47* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *12/21/21 14:23* | *12/21/21 23:47* | *1* |

**Lab Sample ID: LCS 880-15273/1-A**
**Matrix: Solid**
**Analysis Batch: 15227**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15273**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1036 | | mg/Kg | | 104 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.1036 | | mg/Kg | | 104 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1016 | | mg/Kg | | 102 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.1970 | | mg/Kg | | 99 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.09487 | | mg/Kg | | 95 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* |

**Lab Sample ID: LCSD 880-15273/2-A**
**Matrix: Solid**
**Analysis Batch: 15227**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 15273**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09550 | | mg/Kg | | 95 | 70 - 130 | 8 | 35 |
| Toluene | | | 0.100 | 0.1022 | | mg/Kg | | 102 | 70 - 130 | 1 | 35 |
| Ethylbenzene | | | 0.100 | 0.09699 | | mg/Kg | | 97 | 70 - 130 | 5 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1924 | | mg/Kg | | 96 | 70 - 130 | 2 | 35 |
| o-Xylene | | | 0.100 | 0.09144 | | mg/Kg | | 91 | 70 - 130 | 4 | 35 |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 |

**Lab Sample ID: 880-9573-21 MS** — **Client Sample ID: S-11,0.5'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 15227** — **Prep Batch: 15273**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.0998 | 0.08751 | | mg/Kg | | 86 | 70 - 130 |
| Toluene | 0.00381 | | 0.0998 | 0.08948 | | mg/Kg | | 86 | 70 - 130 |
| Ethylbenzene | <0.00202 | U | 0.0998 | 0.09245 | | mg/Kg | | 92 | 70 - 130 |
| m,p-Xylenes | <0.00403 | U | 0.200 | 0.1639 | | mg/Kg | | 81 | 70 - 130 |
| o-Xylene | <0.00202 | U | 0.0998 | 0.07809 | | mg/Kg | | 77 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 125 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 |

**Lab Sample ID: 880-9573-21 MSD** — **Client Sample ID: S-11,0.5'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 15227** — **Prep Batch: 15273**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.0994 | 0.07969 | | mg/Kg | | 79 | 70 - 130 | 9 | 35 |
| Toluene | 0.00381 | | 0.0994 | 0.07871 | | mg/Kg | | 75 | 70 - 130 | 13 | 35 |
| Ethylbenzene | <0.00202 | U | 0.0994 | 0.07587 | | mg/Kg | | 75 | 70 - 130 | 20 | 35 |
| m,p-Xylenes | <0.00403 | U | 0.199 | 0.1443 | | mg/Kg | | 71 | 70 - 130 | 13 | 35 |
| o-Xylene | <0.00202 | U | 0.0994 | 0.07490 | | mg/Kg | | 74 | 70 - 130 | 4 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 |

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

**Lab Sample ID: MB 880-15385/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 15413** — **Prep Batch: 15385**

| 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 | | 12/22/21 14:29 | 12/23/21 20:18 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 14:29 | 12/23/21 20:18 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 14:29 | 12/23/21 20:18 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane (Surr) | 152 | S1+ | 70 - 130 | 12/22/21 14:29 | 12/23/21 20:18 | 1 |
| o-Terphenyl (Surr) | 177 | S1+ | 70 - 130 | 12/22/21 14:29 | 12/23/21 20:18 | 1 |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: LCS 880-15385/2-A**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15385**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 869.0 | | mg/Kg | | 87 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 826.1 | | mg/Kg | | 83 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *116* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *125* | | *70 - 130* |

**Lab Sample ID: LCSD 880-15385/3-A**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 15385**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1239 | *1 | mg/Kg | | 124 | 70 - 130 | 35 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 776.5 | | mg/Kg | | 78 | 70 - 130 | 6 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *98* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *109* | | *70 - 130* |

**Lab Sample ID: 890-1740-A-1-D MS**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 15385**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *1 | 996 | 1249 | | mg/Kg | | 121 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 996 | 794.6 | | mg/Kg | | 75 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *96* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *97* | | *70 - 130* |

**Lab Sample ID: 890-1740-A-1-E MSD**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 15385**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *1 | 995 | 1226 | | mg/Kg | | 118 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 995 | 777.4 | | mg/Kg | | 74 | 70 - 130 | 2 | 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: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: 890-1740-A-1-E MSD**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 15385**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl (Surr) | 96 | | 70 - 130 |

**Lab Sample ID: MB 880-15389/1-A**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15389**

| 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 | | 12/22/21 15:41 | 12/23/21 11:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 11:06 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/22/21 15:41 | 12/23/21 11:06 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane (Surr) | 147 | S1+ | 70 - 130 | 12/22/21 15:41 | 12/23/21 11:06 | 1 |
| o-Terphenyl (Surr) | 174 | S1+ | 70 - 130 | 12/22/21 15:41 | 12/23/21 11:06 | 1 |

**Lab Sample ID: LCS 880-15389/2-A**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15389**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 861.3 | | mg/Kg | | 86 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 814.2 | | mg/Kg | | 81 | 70 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 115 | | 70 - 130 |
| o-Terphenyl (Surr) | 125 | | 70 - 130 |

**Lab Sample ID: LCSD 880-15389/3-A**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 15389**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 981.1 | | mg/Kg | | 98 | 70 - 130 | 13 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 741.9 | | mg/Kg | | 74 | 70 - 130 | 9 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 100 | | 70 - 130 |
| o-Terphenyl (Surr) | 112 | | 70 - 130 |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: 880-9573-1 MS**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: S-1,0.5'**
**Prep Type: Total/NA**
**Prep Batch: 15389**

| 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 | 996 | 2206 | F1 | mg/Kg | | 221 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 996 | 999.0 | | mg/Kg | | 100 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *100* | | *70 - 130* |

**Lab Sample ID: 880-9573-1 MSD**
**Matrix: Solid**
**Analysis Batch: 15413**

**Client Sample ID: S-1,0.5'**
**Prep Type: Total/NA**
**Prep Batch: 15389**

| 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 | 995 | 1450 | F1 F2 | mg/Kg | | 146 | 70 - 130 | 41 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 995 | 961.6 | | mg/Kg | | 97 | 70 - 130 | 4 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *99* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *99* | | *70 - 130* |

**Lab Sample ID: MB 880-15481/1-A**
**Matrix: Solid**
**Analysis Batch: 15426**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15481**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 237.1 | | 50.0 | mg/Kg | | 12/23/21 14:53 | 12/24/21 16:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/23/21 14:53 | 12/24/21 16:42 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/23/21 14:53 | 12/24/21 16:42 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *122* | | *70 - 130* | *12/23/21 14:53* | *12/24/21 16:42* | *1* |
| *o-Terphenyl (Surr)* | *119* | | *70 - 130* | *12/23/21 14:53* | *12/24/21 16:42* | *1* |

**Lab Sample ID: LCS 880-15481/2-A**
**Matrix: Solid**
**Analysis Batch: 15426**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15481**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 872.6 | | mg/Kg | | 87 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 955.9 | | mg/Kg | | 96 | 70 - 130 |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: LCS 880-15481/2-A**
**Matrix: Solid**
**Analysis Batch: 15426**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15481**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 112 | | 70 - 130 |
| o-Terphenyl (Surr) | 110 | | 70 - 130 |

**Lab Sample ID: LCSD 880-15481/3-A**
**Matrix: Solid**
**Analysis Batch: 15426**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 15481**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 945.9 | | mg/Kg | | 95 | 70 - 130 | 8 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1054 | | mg/Kg | | 105 | 70 - 130 | 10 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 130 | | 70 - 130 |
| o-Terphenyl (Surr) | 129 | | 70 - 130 |

**Lab Sample ID: 880-9652-A-1-F MS**
**Matrix: Solid**
**Analysis Batch: 15426**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 15481**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 996 | 1030 | | mg/Kg | | 103 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 996 | 1238 | | mg/Kg | | 122 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 92 | | 70 - 130 |
| o-Terphenyl (Surr) | 86 | | 70 - 130 |

**Lab Sample ID: 880-9652-A-1-G MSD**
**Matrix: Solid**
**Analysis Batch: 15426**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 15481**

| 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 | 995 | 1041 | | mg/Kg | | 105 | 70 - 130 | 1 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 995 | 1250 | | mg/Kg | | 123 | 70 - 130 | 1 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 92 | | 70 - 130 |
| o-Terphenyl (Surr) | 87 | | 70 - 130 |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: MB 880-15549/1-A**
**Matrix: Solid**
**Analysis Batch: 15541**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 15549**

| 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 | | 12/27/21 08:39 | 12/27/21 11:53 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 11:53 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/27/21 08:39 | 12/27/21 11:53 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *98* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 11:53* | *1* |
| *o-Terphenyl (Surr)* | *89* | | *70 - 130* | *12/27/21 08:39* | *12/27/21 11:53* | *1* |

**Lab Sample ID: LCS 880-15549/2-A**
**Matrix: Solid**
**Analysis Batch: 15541**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 15549**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 2153 | *+ | mg/Kg | | 215 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 2161 | *+ | mg/Kg | | 216 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *112* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* |

**Lab Sample ID: LCSD 880-15549/3-A**
**Matrix: Solid**
**Analysis Batch: 15541**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 15549**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 2067 | *+ | mg/Kg | | 207 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 2182 | *+ | mg/Kg | | 218 | 70 - 130 | 1 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *113* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *100* | | *70 - 130* |

**Lab Sample ID: 880-9681-A-1-D MS**
**Matrix: Solid**
**Analysis Batch: 15541**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 15549**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 996 | 1018 | | mg/Kg | | 100 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | 555 | *+ | 996 | 1445 | | mg/Kg | | 89 | 70 - 130 | | |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Lab Sample ID: 880-9681-A-1-D MS**
**Matrix: Solid**
**Analysis Batch: 15541**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 15549**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 95 | | 70 - 130 |
| o-Terphenyl (Surr) | 76 | | 70 - 130 |

**Lab Sample ID: 880-9681-A-1-E MSD**
**Matrix: Solid**
**Analysis Batch: 15541**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 15549**

| 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 *+ | 995 | 1023 | | mg/Kg | | 101 | 70 - 130 | 1 | 20 |
| Diesel Range Organics (Over C10-C28) | 555 | *+ | 995 | 1394 | | mg/Kg | | 84 | 70 - 130 | 4 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 99 | | 70 - 130 |
| o-Terphenyl (Surr) | 73 | | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-15245/1-A**
**Matrix: Solid**
**Analysis Batch: 15627**

**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 | | | 12/28/21 10:14 | 1 |

**Lab Sample ID: LCS 880-15245/2-A**
**Matrix: Solid**
**Analysis Batch: 15627**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 245.7 | | mg/Kg | | 98 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-15245/3-A**
**Matrix: Solid**
**Analysis Batch: 15627**

**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 | 247.2 | | mg/Kg | | 99 | 90 - 110 | 1 | 20 |

**Lab Sample ID: 880-9573-9 MS**
**Matrix: Solid**
**Analysis Batch: 15627**

**Client Sample ID: S-5,0.5'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 5220 | | 1250 | 6547 | 4 | mg/Kg | | 106 | 90 - 110 | | |

# QC Sample Results

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 880-9573-9 MSD** — **Client Sample ID: S-5,0.5'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15627**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 5220 | | 1250 | 6440 | 4 | mg/Kg | | 98 | 90 - 110 | 2 | 20 |

**Lab Sample ID: MB 880-15261/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 12/28/21 12:36 | 1 |

**Lab Sample ID: LCS 880-15261/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 258.6 | | mg/Kg | | 103 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-15261/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 268.9 | | mg/Kg | | 108 | 90 - 110 | 4 | 20 |

**Lab Sample ID: 880-9573-19 MS** — **Client Sample ID: S-10,0.5'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 25.5 | F1 | 251 | 303.8 | F1 | mg/Kg | | 111 | 90 - 110 | | |

**Lab Sample ID: 880-9573-19 MSD** — **Client Sample ID: S-10,0.5'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 25.5 | F1 | 251 | 303.4 | F1 | mg/Kg | | 111 | 90 - 110 | 0 | 20 |

**Lab Sample ID: 880-9573-29 MS** — **Client Sample ID: S-15,0.5'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 78.2 | F1 | 250 | 386.6 | F1 | mg/Kg | | 124 | 90 - 110 | | |

**Lab Sample ID: 880-9573-29 MSD** — **Client Sample ID: S-15,0.5'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 15645**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 78.2 | F1 | 250 | 388.1 | F1 | mg/Kg | | 124 | 90 - 110 | 0 | 20 |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## GC VOA

### Prep Batch: 15225

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-15225/5-A | Method Blank | Total/NA | Solid | 5035 | |

### Analysis Batch: 15227

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-21 | S-11,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-22 | S-11,1' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-23 | S-12,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-24 | S-12,1' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-25 | S-13,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-26 | S-13,1' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-27 | S-14,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-28 | S-14,1' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-29 | S-15,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-30 | S-15,1' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-31 | S-16,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-32 | S-16,1' | Total/NA | Solid | 8021B | 15273 |
| MB 880-15225/5-A | Method Blank | Total/NA | Solid | 8021B | 15225 |
| MB 880-15273/5-A | Method Blank | Total/NA | Solid | 8021B | 15273 |
| LCS 880-15273/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 15273 |
| LCSD 880-15273/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 15273 |
| 880-9573-21 MS | S-11,0.5' | Total/NA | Solid | 8021B | 15273 |
| 880-9573-21 MSD | S-11,0.5' | Total/NA | Solid | 8021B | 15273 |

### Analysis Batch: 15228

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-2 | S-1,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-3 | S-2,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-4 | S-2,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-5 | S-3,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-6 | S-3,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-7 | S-4,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-8 | S-4,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-9 | S-5,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-10 | S-5,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-11 | S-6,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-12 | S-6,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-13 | S-7,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-14 | S-7,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-15 | S-8,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-16 | S-8,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-17 | S-9,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-18 | S-9,1' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-19 | S-10,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-20 | S-10,1' | Total/NA | Solid | 8021B | 15272 |
| MB 880-15225/5-A | Method Blank | Total/NA | Solid | 8021B | 15225 |
| MB 880-15272/5-A | Method Blank | Total/NA | Solid | 8021B | 15272 |
| LCS 880-15272/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 15272 |
| LCSD 880-15272/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 15272 |
| 880-9573-1 MS | S-1,0.5' | Total/NA | Solid | 8021B | 15272 |
| 880-9573-1 MSD | S-1,0.5' | Total/NA | Solid | 8021B | 15272 |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## GC VOA

### Prep Batch: 15272

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-2 | S-1,1' | Total/NA | Solid | 5035 | |
| 880-9573-3 | S-2,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-4 | S-2,1' | Total/NA | Solid | 5035 | |
| 880-9573-5 | S-3,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-6 | S-3,1' | Total/NA | Solid | 5035 | |
| 880-9573-7 | S-4,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-8 | S-4,1' | Total/NA | Solid | 5035 | |
| 880-9573-9 | S-5,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-10 | S-5,1' | Total/NA | Solid | 5035 | |
| 880-9573-11 | S-6,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-12 | S-6,1' | Total/NA | Solid | 5035 | |
| 880-9573-13 | S-7,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-14 | S-7,1' | Total/NA | Solid | 5035 | |
| 880-9573-15 | S-8,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-16 | S-8,1' | Total/NA | Solid | 5035 | |
| 880-9573-17 | S-9,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-18 | S-9,1' | Total/NA | Solid | 5035 | |
| 880-9573-19 | S-10,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-20 | S-10,1' | Total/NA | Solid | 5035 | |
| MB 880-15272/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-15272/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-15272/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-9573-1 MS | S-1,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-1 MSD | S-1,0.5' | Total/NA | Solid | 5035 | |

### Prep Batch: 15273

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-21 | S-11,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-22 | S-11,1' | Total/NA | Solid | 5035 | |
| 880-9573-23 | S-12,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-24 | S-12,1' | Total/NA | Solid | 5035 | |
| 880-9573-25 | S-13,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-26 | S-13,1' | Total/NA | Solid | 5035 | |
| 880-9573-27 | S-14,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-28 | S-14,1' | Total/NA | Solid | 5035 | |
| 880-9573-29 | S-15,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-30 | S-15,1' | Total/NA | Solid | 5035 | |
| 880-9573-31 | S-16,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-32 | S-16,1' | Total/NA | Solid | 5035 | |
| MB 880-15273/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-15273/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-15273/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-9573-21 MS | S-11,0.5' | Total/NA | Solid | 5035 | |
| 880-9573-21 MSD | S-11,0.5' | Total/NA | Solid | 5035 | |

### Analysis Batch: 15381

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-21 | S-11,0.5' | Total/NA | Solid | Total BTEX | |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## GC VOA

### Analysis Batch: 15716

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-2 | S-1,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-3 | S-2,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-4 | S-2,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-5 | S-3,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-6 | S-3,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-7 | S-4,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-8 | S-4,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-9 | S-5,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-10 | S-5,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-11 | S-6,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-12 | S-6,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-13 | S-7,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-14 | S-7,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-15 | S-8,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-16 | S-8,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-17 | S-9,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-18 | S-9,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-19 | S-10,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-20 | S-10,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-22 | S-11,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-23 | S-12,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-24 | S-12,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-25 | S-13,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-26 | S-13,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-27 | S-14,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-28 | S-14,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-29 | S-15,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-30 | S-15,1' | Total/NA | Solid | Total BTEX | |
| 880-9573-31 | S-16,0.5' | Total/NA | Solid | Total BTEX | |
| 880-9573-32 | S-16,1' | Total/NA | Solid | Total BTEX | |

## GC Semi VOA

### Prep Batch: 15385

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-4 | S-2,1' | Total/NA | Solid | 8015NM Prep | |
| MB 880-15385/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-15385/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-15385/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1740-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-1740-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

### Prep Batch: 15389

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-2 | S-1,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-3 | S-2,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-6 | S-3,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-7 | S-4,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-8 | S-4,1' | Total/NA | Solid | 8015NM Prep | |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## GC Semi VOA (Continued)

### Prep Batch: 15389 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-9 | S-5,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-10 | S-5,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-11 | S-6,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-12 | S-6,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-13 | S-7,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-14 | S-7,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-15 | S-8,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-16 | S-8,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-17 | S-9,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-18 | S-9,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-19 | S-10,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-20 | S-10,1' | Total/NA | Solid | 8015NM Prep | |
| MB 880-15389/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-15389/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-15389/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-9573-1 MS | S-1,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-1 MSD | S-1,0.5' | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 15413

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-2 | S-1,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-3 | S-2,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-4 | S-2,1' | Total/NA | Solid | 8015B NM | 15385 |
| 880-9573-6 | S-3,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-7 | S-4,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-8 | S-4,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-9 | S-5,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-10 | S-5,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-11 | S-6,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-12 | S-6,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-13 | S-7,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-14 | S-7,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-15 | S-8,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-16 | S-8,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-17 | S-9,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-18 | S-9,1' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-19 | S-10,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-20 | S-10,1' | Total/NA | Solid | 8015B NM | 15389 |
| MB 880-15385/1-A | Method Blank | Total/NA | Solid | 8015B NM | 15385 |
| MB 880-15389/1-A | Method Blank | Total/NA | Solid | 8015B NM | 15389 |
| LCS 880-15385/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 15385 |
| LCS 880-15389/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 15389 |
| LCSD 880-15385/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 15385 |
| LCSD 880-15389/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-1 MS | S-1,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 880-9573-1 MSD | S-1,0.5' | Total/NA | Solid | 8015B NM | 15389 |
| 890-1740-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015B NM | 15385 |
| 890-1740-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 15385 |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## GC Semi VOA

### Analysis Batch: 15426

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-5 | S-3,0.5' | Total/NA | Solid | 8015B NM | 15481 |
| 880-9573-29 | S-15,0.5' | Total/NA | Solid | 8015B NM | 15481 |
| 880-9573-30 | S-15,1' | Total/NA | Solid | 8015B NM | 15481 |
| 880-9573-31 | S-16,0.5' | Total/NA | Solid | 8015B NM | 15481 |
| 880-9573-32 | S-16,1' | Total/NA | Solid | 8015B NM | 15481 |
| MB 880-15481/1-A | Method Blank | Total/NA | Solid | 8015B NM | 15481 |
| LCS 880-15481/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 15481 |
| LCSD 880-15481/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 15481 |
| 880-9652-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 15481 |
| 880-9652-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 15481 |

### Prep Batch: 15481

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-5 | S-3,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-29 | S-15,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-30 | S-15,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-31 | S-16,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-32 | S-16,1' | Total/NA | Solid | 8015NM Prep | |
| MB 880-15481/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-15481/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-15481/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-9652-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-9652-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 15541

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-21 | S-11,0.5' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-22 | S-11,1' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-23 | S-12,0.5' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-24 | S-12,1' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-25 | S-13,0.5' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-26 | S-13,1' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-27 | S-14,0.5' | Total/NA | Solid | 8015B NM | 15549 |
| 880-9573-28 | S-14,1' | Total/NA | Solid | 8015B NM | 15549 |
| MB 880-15549/1-A | Method Blank | Total/NA | Solid | 8015B NM | 15549 |
| LCS 880-15549/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 15549 |
| LCSD 880-15549/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 15549 |
| 880-9681-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015B NM | 15549 |
| 880-9681-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 15549 |

### Prep Batch: 15549

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-21 | S-11,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-22 | S-11,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-23 | S-12,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-24 | S-12,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-25 | S-13,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-26 | S-13,1' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-27 | S-14,0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-9573-28 | S-14,1' | Total/NA | Solid | 8015NM Prep | |
| MB 880-15549/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## GC Semi VOA (Continued)

### Prep Batch: 15549 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 880-15549/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-15549/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-9681-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-9681-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 15715

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-2 | S-1,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-3 | S-2,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-4 | S-2,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-5 | S-3,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-6 | S-3,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-7 | S-4,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-8 | S-4,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-9 | S-5,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-10 | S-5,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-11 | S-6,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-12 | S-6,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-13 | S-7,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-14 | S-7,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-15 | S-8,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-16 | S-8,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-17 | S-9,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-18 | S-9,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-19 | S-10,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-20 | S-10,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-21 | S-11,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-22 | S-11,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-23 | S-12,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-24 | S-12,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-25 | S-13,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-26 | S-13,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-27 | S-14,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-28 | S-14,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-29 | S-15,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-30 | S-15,1' | Total/NA | Solid | 8015 NM | |
| 880-9573-31 | S-16,0.5' | Total/NA | Solid | 8015 NM | |
| 880-9573-32 | S-16,1' | Total/NA | Solid | 8015 NM | |

## HPLC/IC

### Leach Batch: 15245

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-2 | S-1,1' | Soluble | Solid | DI Leach | |
| 880-9573-3 | S-2,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-4 | S-2,1' | Soluble | Solid | DI Leach | |
| 880-9573-5 | S-3,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-6 | S-3,1' | Soluble | Solid | DI Leach | |
| 880-9573-7 | S-4,0.5' | Soluble | Solid | DI Leach | |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Leach Batch: 15245 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-8 | S-4,1' | Soluble | Solid | DI Leach | |
| 880-9573-9 | S-5,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-10 | S-5,1' | Soluble | Solid | DI Leach | |
| 880-9573-11 | S-6,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-12 | S-6,1' | Soluble | Solid | DI Leach | |
| 880-9573-13 | S-7,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-14 | S-7,1' | Soluble | Solid | DI Leach | |
| 880-9573-15 | S-8,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-16 | S-8,1' | Soluble | Solid | DI Leach | |
| 880-9573-17 | S-9,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-18 | S-9,1' | Soluble | Solid | DI Leach | |
| MB 880-15245/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-15245/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-15245/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-9573-9 MS | S-5,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-9 MSD | S-5,0.5' | Soluble | Solid | DI Leach | |

### Leach Batch: 15261

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-19 | S-10,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-20 | S-10,1' | Soluble | Solid | DI Leach | |
| 880-9573-21 | S-11,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-22 | S-11,1' | Soluble | Solid | DI Leach | |
| 880-9573-23 | S-12,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-24 | S-12,1' | Soluble | Solid | DI Leach | |
| 880-9573-25 | S-13,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-26 | S-13,1' | Soluble | Solid | DI Leach | |
| 880-9573-27 | S-14,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-28 | S-14,1' | Soluble | Solid | DI Leach | |
| 880-9573-29 | S-15,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-30 | S-15,1' | Soluble | Solid | DI Leach | |
| 880-9573-31 | S-16,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-32 | S-16,1' | Soluble | Solid | DI Leach | |
| MB 880-15261/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-15261/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-15261/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-9573-19 MS | S-10,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-19 MSD | S-10,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-29 MS | S-15,0.5' | Soluble | Solid | DI Leach | |
| 880-9573-29 MSD | S-15,0.5' | Soluble | Solid | DI Leach | |

### Analysis Batch: 15627

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-2 | S-1,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-3 | S-2,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-4 | S-2,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-5 | S-3,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-6 | S-3,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-7 | S-4,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-8 | S-4,1' | Soluble | Solid | 300.0 | 15245 |

# QC Association Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Analysis Batch: 15627 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-9 | S-5,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-10 | S-5,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-11 | S-6,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-12 | S-6,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-13 | S-7,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-14 | S-7,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-15 | S-8,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-16 | S-8,1' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-17 | S-9,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-18 | S-9,1' | Soluble | Solid | 300.0 | 15245 |
| MB 880-15245/1-A | Method Blank | Soluble | Solid | 300.0 | 15245 |
| LCS 880-15245/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 15245 |
| LCSD 880-15245/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 15245 |
| 880-9573-9 MS | S-5,0.5' | Soluble | Solid | 300.0 | 15245 |
| 880-9573-9 MSD | S-5,0.5' | Soluble | Solid | 300.0 | 15245 |

### Analysis Batch: 15645

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-9573-19 | S-10,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-20 | S-10,1' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-21 | S-11,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-22 | S-11,1' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-23 | S-12,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-24 | S-12,1' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-25 | S-13,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-26 | S-13,1' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-27 | S-14,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-28 | S-14,1' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-29 | S-15,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-30 | S-15,1' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-31 | S-16,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-32 | S-16,1' | Soluble | Solid | 300.0 | 15261 |
| MB 880-15261/1-A | Method Blank | Soluble | Solid | 300.0 | 15261 |
| LCS 880-15261/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 15261 |
| LCSD 880-15261/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 15261 |
| 880-9573-19 MS | S-10,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-19 MSD | S-10,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-29 MS | S-15,0.5' | Soluble | Solid | 300.0 | 15261 |
| 880-9573-29 MSD | S-15,0.5' | Soluble | Solid | 300.0 | 15261 |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-1,0.5'
**Date Collected: 12/20/21 12:50**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-1
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 00:42 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 12:06 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 11:23 | CH | XEN MID |

## Client Sample ID: S-1,1'
**Date Collected: 12/20/21 12:52**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-2
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 01:02 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 13:23 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 11:33 | CH | XEN MID |

## Client Sample ID: S-2,0.5'
**Date Collected: 12/20/21 13:04**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-3
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 01:23 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 13:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 11:43 | CH | XEN MID |

## Client Sample ID: S-2,1'
**Date Collected: 12/20/21 13:06**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-4
**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 | | | 5.03 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 01:43 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-2,1'
**Date Collected: 12/20/21 13:06**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-4**
**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 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15385 | 12/22/21 14:29 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/24/21 02:38 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 12:12 | CH | XEN MID |

## Client Sample ID: S-3,0.5'
**Date Collected: 12/20/21 13:12**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-5**
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 02:04 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15481 | 12/23/21 14:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15426 | 12/25/21 01:24 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 12:22 | CH | XEN MID |

## Client Sample ID: S-3,1'
**Date Collected: 12/20/21 13:14**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-6**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 02:24 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 14:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 12:32 | CH | XEN MID |

## Client Sample ID: S-4,0.5'
**Date Collected: 12/20/21 13:25**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-7**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 02:45 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 15:02 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-4,0.5'
**Date Collected: 12/20/21 13:25**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-7**
**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 | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 12:42 | CH | XEN MID |

## Client Sample ID: S-4,1'
**Date Collected: 12/20/21 13:27**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-8**
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 03:05 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 15:22 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 12:52 | CH | XEN MID |

## Client Sample ID: S-5,0.5'
**Date Collected: 12/20/21 13:35**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-9**
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 03:26 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 15:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 13:01 | CH | XEN MID |

## Client Sample ID: S-5,1'
**Date Collected: 12/20/21 13:37**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-10**
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 03:46 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 16:02 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 13:31 | CH | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-6,0.5'
**Date Collected: 12/20/21 13:45**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-11
**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 | | | 4.96 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 05:10 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 16:41 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 13:41 | CH | XEN MID |

## Client Sample ID: S-6,1'
**Date Collected: 12/20/21 13:47**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-12
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 05:30 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 17:01 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15627 | 12/28/21 14:11 | CH | XEN MID |

## Client Sample ID: S-7,0.5'
**Date Collected: 12/20/21 13:55**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-13
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 05:51 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 17:21 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 14:20 | CH | XEN MID |

## Client Sample ID: S-7,1'
**Date Collected: 12/20/21 13:57**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-14
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 06:11 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-7,1'
**Date Collected: 12/20/21 13:57**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-14**
**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 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 17:41 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 14:30 | CH | XEN MID |

## Client Sample ID: S-8,0.5'
**Date Collected: 12/20/21 14:10**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-15**
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 06:32 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 18:00 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 14:40 | CH | XEN MID |

## Client Sample ID: S-8,1'
**Date Collected: 12/20/21 14:12**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-16**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 06:52 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 18:20 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 14:50 | CH | XEN MID |

## Client Sample ID: S-9,0.5'
**Date Collected: 12/20/21 14:22**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-17**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 07:13 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 18:40 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-9,0.5'
**Date Collected: 12/20/21 14:22**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-17**
**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 | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 15627 | 12/28/21 15:00 | CH | XEN MID |

## Client Sample ID: S-9,1'
**Date Collected: 12/20/21 14:24**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-18**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 07:33 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 19:00 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15245 | 12/21/21 10:41 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 15627 | 12/28/21 15:10 | CH | XEN MID |

## Client Sample ID: S-10,0.5'
**Date Collected: 12/20/21 14:30**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-19**
**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 | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 07:53 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 19:19 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 15:28 | CH | XEN MID |

## Client Sample ID: S-10,1'
**Date Collected: 12/20/21 14:32**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-20**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 15272 | 12/21/21 14:20 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15228 | 12/22/21 08:14 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15389 | 12/22/21 15:41 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15413 | 12/23/21 19:39 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 17:08 | CH | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-11,0.5'
**Date Collected: 12/20/21 14:45**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-21
**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 | | | 4.96 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 00:16 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15381 | 12/22/21 12:58 | MR | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 17:26 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 17:20 | CH | XEN MID |

## Client Sample ID: S-11,1'
**Date Collected: 12/20/21 14:47**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-22
**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 | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 00:37 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 17:47 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 17:32 | CH | XEN MID |

## Client Sample ID: S-12,0.5'
**Date Collected: 12/20/21 14:55**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-23
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 00:57 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 18:08 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 17:44 | CH | XEN MID |

## Client Sample ID: S-12,1'
**Date Collected: 12/20/21 14:57**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-24
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 01:17 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |

Eurofins Xenco, Midland

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-12,1'
**Date Collected: 12/20/21 14:57**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-24**
**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 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 18:29 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 18:30 | CH | XEN MID |

## Client Sample ID: S-13,0.5'
**Date Collected: 12/20/21 15:05**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-25**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 01:38 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 18:50 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/29/21 11:55 | CH | XEN MID |

## Client Sample ID: S-13,1'
**Date Collected: 12/20/21 15:07**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-26**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 01:58 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 19:11 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 20:22 | CH | XEN MID |

## Client Sample ID: S-14,0.5'
**Date Collected: 12/20/21 15:15**
**Date Received: 12/21/21 09:20**

**Lab Sample ID: 880-9573-27**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 02:19 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 19:31 | AJ | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-14,0.5'
**Date Collected: 12/20/21 15:15**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-27
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 20:34 | CH | XEN MID |

## Client Sample ID: S-14,1'
**Date Collected: 12/20/21 15:17**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-28
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 02:39 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15549 | 12/27/21 08:39 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15541 | 12/27/21 19:52 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 20:46 | CH | XEN MID |

## Client Sample ID: S-15,0.5'
**Date Collected: 12/20/21 15:30**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-29
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 03:00 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 15481 | 12/23/21 14:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15426 | 12/25/21 00:00 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 20:58 | CH | XEN MID |

## Client Sample ID: S-15,1'
**Date Collected: 12/20/21 15:32**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-30
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 03:20 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15481 | 12/23/21 14:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15426 | 12/25/21 00:21 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 21:33 | CH | XEN MID |

# Lab Chronicle

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

Job ID: 880-9573-1
SDG: 21-0105-08

## Client Sample ID: S-16,0.5'

**Date Collected: 12/20/21 15:40**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-31

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 05:10 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 15481 | 12/23/21 14:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15426 | 12/25/21 00:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 0 mL | 1.0 mL | 15645 | 12/28/21 21:45 | CH | XEN MID |

## Client Sample ID: S-16,1'

**Date Collected: 12/20/21 15:42**
**Date Received: 12/21/21 09:20**

## Lab Sample ID: 880-9573-32

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 15273 | 12/21/21 14:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 15227 | 12/22/21 05:31 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 15716 | 12/29/21 09:36 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 15715 | 12/29/21 09:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 15481 | 12/23/21 14:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 15426 | 12/25/21 01:03 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 15261 | 12/21/21 13:54 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 15645 | 12/28/21 22:26 | CH | XEN MID |

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-9573-1
Project/Site: Boo Radley SDG: 21-0105-08

## Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Texas | NELAP | T104704400-21-22 | 06-30-22 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

# Method Summary

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

Job ID: 880-9573-1
SDG: 21-0105-08

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

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-9573-1
SDG: 21-0105-08

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-9573-1 | S-1,0.5' | Solid | 12/20/21 12:50 | 12/21/21 09:20 |
| 880-9573-2 | S-1,1' | Solid | 12/20/21 12:52 | 12/21/21 09:20 |
| 880-9573-3 | S-2,0.5' | Solid | 12/20/21 13:04 | 12/21/21 09:20 |
| 880-9573-4 | S-2,1' | Solid | 12/20/21 13:06 | 12/21/21 09:20 |
| 880-9573-5 | S-3,0.5' | Solid | 12/20/21 13:12 | 12/21/21 09:20 |
| 880-9573-6 | S-3,1' | Solid | 12/20/21 13:14 | 12/21/21 09:20 |
| 880-9573-7 | S-4,0.5' | Solid | 12/20/21 13:25 | 12/21/21 09:20 |
| 880-9573-8 | S-4,1' | Solid | 12/20/21 13:27 | 12/21/21 09:20 |
| 880-9573-9 | S-5,0.5' | Solid | 12/20/21 13:35 | 12/21/21 09:20 |
| 880-9573-10 | S-5,1' | Solid | 12/20/21 13:37 | 12/21/21 09:20 |
| 880-9573-11 | S-6,0.5' | Solid | 12/20/21 13:45 | 12/21/21 09:20 |
| 880-9573-12 | S-6,1' | Solid | 12/20/21 13:47 | 12/21/21 09:20 |
| 880-9573-13 | S-7,0.5' | Solid | 12/20/21 13:55 | 12/21/21 09:20 |
| 880-9573-14 | S-7,1' | Solid | 12/20/21 13:57 | 12/21/21 09:20 |
| 880-9573-15 | S-8,0.5' | Solid | 12/20/21 14:10 | 12/21/21 09:20 |
| 880-9573-16 | S-8,1' | Solid | 12/20/21 14:12 | 12/21/21 09:20 |
| 880-9573-17 | S-9,0.5' | Solid | 12/20/21 14:22 | 12/21/21 09:20 |
| 880-9573-18 | S-9,1' | Solid | 12/20/21 14:24 | 12/21/21 09:20 |
| 880-9573-19 | S-10,0.5' | Solid | 12/20/21 14:30 | 12/21/21 09:20 |
| 880-9573-20 | S-10,1' | Solid | 12/20/21 14:32 | 12/21/21 09:20 |
| 880-9573-21 | S-11,0.5' | Solid | 12/20/21 14:45 | 12/21/21 09:20 |
| 880-9573-22 | S-11,1' | Solid | 12/20/21 14:47 | 12/21/21 09:20 |
| 880-9573-23 | S-12,0.5' | Solid | 12/20/21 14:55 | 12/21/21 09:20 |
| 880-9573-24 | S-12,1' | Solid | 12/20/21 14:57 | 12/21/21 09:20 |
| 880-9573-25 | S-13,0.5' | Solid | 12/20/21 15:05 | 12/21/21 09:20 |
| 880-9573-26 | S-13,1' | Solid | 12/20/21 15:07 | 12/21/21 09:20 |
| 880-9573-27 | S-14,0.5' | Solid | 12/20/21 15:15 | 12/21/21 09:20 |
| 880-9573-28 | S-14,1' | Solid | 12/20/21 15:17 | 12/21/21 09:20 |
| 880-9573-29 | S-15,0.5' | Solid | 12/20/21 15:30 | 12/21/21 09:20 |
| 880-9573-30 | S-15,1' | Solid | 12/20/21 15:32 | 12/21/21 09:20 |
| 880-9573-31 | S-16,0.5' | Solid | 12/20/21 15:40 | 12/21/21 09:20 |
| 880-9573-32 | S-16,1' | Solid | 12/20/21 15:42 | 12/21/21 09:20 |

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No. 2295

# CHAIN-OF-CUSTODY

12/29/2021

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld Ste 202
Midland TX 79701
432 687-0901

DATE 12/21/2021 PAGE 1 OF 3

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR JR

Data Reported to

TRRP report? ☐ Yes ☒ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

TIME ZONE
Time zone/State
MST/NM

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ NaOH | ICE | UNPRESSERVED | ANALYSES: BTEX MTBE | TRPH 418.1 | TPH 1005 | TPH 1006 | GASOLINE MOD 8015 | DIESEL MOD 8015 | OIL - MOD 8015 | VOC 8260 | SVOC 8270 | PAH 8270 | HOLDPAH | 8081 PESTICIDES | 8151 HERBICIDES | 8082 PCBS | TCLP - METALS (RCRA) | TCLP VOC | TCLP PEST | HERB | TOTAL METALS (RCRA) | Semi-VOC | LEAD - TOTAL | D W 200.8 | OTHER LIST | RCI | TOX | TCLP | TDS | FLASHPOINT | TSS | pH | % MOISTURE | EXPLOSIVES | HEXAVALENT CHROMIUM | CHLORIDES | CYANIDE | PECHLORATE | ANIONS | ALKALINITY | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1, 0.5' | | 12/20/21 | 1250 | S | 1 | | | | X | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 202 |
| S-1, 1' | | | 1252 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-2, 0.5' | | | 1304 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-2, 1' | | | 1306 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-3, 0.5' | | | 1312 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-3, 1' | | | 1314 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-4, 0.5' | | | 1325 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-4, 1' | | | 1327 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-5, 0.5' | | | 1335 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-5, 1' | | | 1337 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-6, 0.5' | | | 1345 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-6, 1' | | | 1347 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-7, 0.5' | | | 1355 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-7, 1' | | | 1357 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-8, 0.5' | | | 1410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) DATE/TIME 12/21/21 0920 RECEIVED BY (Signature)

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RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature)

LABORATORY Xenco

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 4.4/4.5 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

880-9573 Chain of Custody

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Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

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No. 2296

# CHAIN-OF-CUSTODY

12/29/2021

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld Ste 202
Midland TX 79701
432 687 0901

Data Reported to

DATE 12/21/2021 PAGE 2 OF 3

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR DR

TRRP report? ☐ Yes ☒ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

TIME ZONE
Time zone/State
MST/NM

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ NaOH | ICE | UNPRESSERVED | ANALYSES: BTEX MTBE | TPH 418.1 | TPH 1005 TPH 1006 | GASOLINE MOD 8015 | DIESEL MOD 8015 | OIL - MOD 8015 | VOC 8260 | SVOC 8270 | PAH 8270 HOLDPAH | 8081 PESTICIDES | 8151 HERBICIDES | 8082 PCBS | TCLP - METALS (RCRA) | TCLP VOC | TCLP - PEST | HERB | TOTAL METALS (RCRA) | Semi-VOC | LEAD - TOTAL | OTHER LIST | D W 200.8 | RCI | TCLP | TOX | FLASHPOINT | TDS | TSS | % MOISTURE | pH | CYANIDE | EXPLOSIVES | HEXAVALENT CHROMIUM | PECHLORATE | CHLORIDE | ANIONS | ALKALINITY | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-8, 1' | | 12/20/21 | 1412 | S | 1 | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 202 |
| S-9, 0.5' | | | 1422 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-9, 1' | | | 1424 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-10, 0.5' | | | 1430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-10, 1' | | | 1432 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-11, 0.5' | | | 1445 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-11, 1' | | | 1447 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-12, 0.5' | | | 1455 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-12, 1' | | | 1457 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-13, 0.5' | | | 1505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-13, 1' | | | 1507 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-14, 0.5' | | | 1515 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-14, 1' | | | 1517 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-15, 0.5' | | | 1530 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-15, 1' | | | 1532 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) |
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| | 12/21/21 0920 | |
| 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/-4.5 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

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No. 2297

# CHAIN-OF-CUSTODY

12/29/2021

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld Ste 202
Midland TX 79701
432 687 0901

Data Reported to

DATE 12/21/2021 PAGE 3 OF 3

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR TR

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ NaOH | ICE | UNPRESSERVED | ANALYSES: BTEX MTBE | TPH 418.1 | TPH 1005 | TPH 1006 | GASOLINE MOD 8015 | DIESEL MOD 8015 | OIL - MOD 8015 | VOC 8260 | SVOC 8270 | 8081 PESTICIDES | PAH 8270 | 8082 PCBS | HOLDPAH | 8151 HERBICIDES | TCLP VOC | TCLP - METALS (RCRA) | TCLP - PEST | HERB | Semi-VOC | TOTAL METALS (RCRA) | OTHER LIST | LEAD - TOTAL | DW 200.8 | TCLP | RCI | TCX | FLASHPOINT | TDS | TSS | % MOISTURE | pH | CYANIDE | HEXAVALENT CHROMIUM | EXPLOSIVES | PECHLORATE | CHLORIDE | ANIONS | ALKALINITY | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-14 0.5' | | 12/20/21 | 1540 | S | 1 | | | | X | | X | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-14, 1' | | 1 | 1542 | 1 | 1 | | | | 1 | | 1 | | | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 202 |
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| TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) _____ DATE/TIME 12/21/21 0920 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/-4.5 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

# Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-9573-1
SDG Number: 21-0105-08

**Login Number: 9573**
**List Number: 1**
**Creator: Teel, Brianna**

**List Source: Eurofins Xenco, Midland**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

eurofins | Environment Testing America



# ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-10694-1
Laboratory Sample Delivery Group: 21-0105-08
Client Project/Site: Boo Radley
Revision: 1

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

Holly Taylor

*Authorized for release by:*
*7/7/2022 5:54:24 PM*

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Laboratory Job ID: 880-10694-1
SDG: 21-0105-08

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# Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-10694-1
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. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| S1- | Surrogate recovery exceeds control limits, low biased. |
| U | Indicates the analyte was analyzed for but not detected. |

### HPLC/IC

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD recovery exceeds control limits. |
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | 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: 880-10694-1
SDG: 21-0105-08

## Job ID: 880-10694-1

### Laboratory: Eurofins Midland

**Narrative**

**Job Narrative**
**880-10694-1**

**Comments**
No additional comments.

**Revision**
The report being provided is a revision of the original report sent on 2/7/2022. The report (revision 1) is being revised to remove all sample results for PB-11 at all depths per Robert Nelson (email).

**Receipt**
The samples were received on 1/28/2022 10:03 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.2º C.

**GC VOA**
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-18031 and 880-18038 and analytical batch 880-18042 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PB 1 1' (880-10694-1), PB 1 5' (880-10694-3), PB 1 9' (880-10694-4), PB 2 1' (880-10694-5), PB 2 5' (880-10694-7), PB 4 5' (880-10694-15), PB 7 3' (880-10694-26), PB 8 1' (880-10694-29), PB 8 5' (880-10694-31), PB 9 1' (880-10694-33), PB 9 5' (880-10694-35), PB 9 10' (880-10694-36), PB 11 10' (880-10694-44), S1 9' (880-10694-48), (880-10694-A-21-A MS) and (880-10694-A-41-B MSD). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S2 3' (880-10694-51), S8 1' (880-10694-58) and (CCV 880-18101/20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC Semi VOA**
Method 8015B NM: Surrogate recovery for the following samples were outside control limits: PB 1 5' (880-10694-3), (MB 880-18188/1-A), (880-10694-A-1-E MS) and (880-10694-A-1-F MSD). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: S9 1' (880-10694-62), (880-10698-A-1-C MS) and (880-10698-A-1-D MSD). Evidence of matrix interferences is not obvious.

Method 8015B NM: The CCV was biased low for the gasoline range hydrocarbons. However, the subsequent CCV was analyzed and acceptable within the 12 hour window therefore, the data was qualified and accepted.
(CCV 880-18339/19)

Method 8015B NM: The CCV was biased low for gasoline range hydrocarbons. The subsequent CCV was analyzed and was acceptable within the 12 hour window, therefore, the data was qualified and reported.
(CCV 880-18343/19)

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (880-10694-A-41-F MSD). Evidence of matrix interferences is not obvious.

Method 8015B NM: The CCV was biased low for gasoline range hydrocarbons. The subsequent CCV was analyzed and was acceptable within the 12 hour window, therefore, the data was qualified and reported.
(CCV 880-18343/46)

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: PB 1 9' (880-10694-4), PB 2 1' (880-10694-5), PB 2 5' (880-10694-7) and PB 3 5' (880-10694-11). Evidence of matrix interferences is not obvious.

# Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Job ID: 880-10694-1 (Continued)

### Laboratory: Eurofins Midland (Continued)

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: PB 9 1' (880-10694-33), PB 9 3' (880-10694-34) and PB 9 5' (880-10694-35). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (880-10694-A-21-F 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.

**General Chemistry**
Method 300.0: The continuing calibration blank (CCB) for analytical batch 880-18408 contained Chloride above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18212 and 880-18212 and analytical batch 880-18519 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Organic Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**VOA Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 1 1'

**Date Collected: 01/24/22 12:12**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-1

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:36 | 1 |
| Toluene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:36 | 1 |
| Ethylbenzene | <0.00200 | U F1 F2 | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:36 | 1 |
| m,p-Xylenes | <0.00401 | U F1 | 0.00401 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:36 | 1 |
| o-Xylene | <0.00200 | U F1 | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:36 | 1 |
| Xylenes, Total | <0.00401 | U F1 | 0.00401 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *131* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 15:36* | *1* |
| *1,4-Difluorobenzene (Surr)* | *87* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 15:36* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 12:44 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 12:44 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 12:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *76* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 12:44* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 12:44* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **21.9** | | 5.04 | | mg/Kg | | | 02/03/22 13:35 | 1 |

## Client Sample ID: PB 1 3'

**Date Collected: 01/24/22 12:13**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-2

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:56 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:56 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:56 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:56 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:56 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 15:56* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 15:56* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 1 3'

**Date Collected: 01/24/22 12:13**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-2

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 16:33 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 16:33 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 16:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *75* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 16:33* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 16:33* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **23.0** | | 5.04 | | mg/Kg | | | 02/03/22 15:12 | 1 |

## Client Sample ID: PB 1 5'

**Date Collected: 01/24/22 12:14**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-3

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:17 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:17 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:17 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:17 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:17 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *136* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 16:17* | *1* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 16:17* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 16:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 16:55 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 1 5'

**Date Collected: 01/24/22 12:14**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-3

**Matrix: Solid**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 16:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *66* | *S1-* | *70 - 130* | *01/31/22 14:58* | *02/02/22 16:55* | *1* |
| *o-Terphenyl (Surr)* | *74* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 16:55* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **13.9** | | 5.00 | | mg/Kg | | | 02/04/22 12:16 | 1 |

## Client Sample ID: PB 1 9'

**Date Collected: 01/24/22 12:15**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-4

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:37 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:37 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:37 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:37 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:37 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *181* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 16:37* | *1* |
| *1,4-Difluorobenzene (Surr)* | *128* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 16:37* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 17:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 17:38 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 17:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *67* | *S1-* | *70 - 130* | *01/31/22 14:58* | *02/02/22 17:38* | *1* |
| *o-Terphenyl (Surr)* | *74* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 17:38* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **32.5** | | 4.98 | | mg/Kg | | | 02/04/22 12:28 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 2 1'

**Date Collected: 01/24/22 13:15**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-5

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:58 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:58 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:58 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:58 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:58 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 16:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 16:58* | *1* |
| *1,4-Difluorobenzene (Surr)* | *137* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 16:58* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00397 | U | 0.00397 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:00 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *65* | *S1-* | *70 - 130* | *01/31/22 14:58* | *02/02/22 18:00* | *1* |
| *o-Terphenyl (Surr)* | *74* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 18:00* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **59.8** | | 4.96 | | mg/Kg | | | 02/04/22 12:40 | 1 |

## Client Sample ID: PB 2 3'

**Date Collected: 01/24/22 13:16**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-6

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:18 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:18 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:18 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:18 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:18 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *116* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 17:18* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 17:18* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 2 3'

**Date Collected: 01/24/22 13:16**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-6**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:22 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:22 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *73* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 18:22* | *1* |
| *o-Terphenyl (Surr)* | *82* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 18:22* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **564** | | 25.0 | | mg/Kg | | | 02/03/22 16:23 | 5 |

## Client Sample ID: PB 2 5'

**Date Collected: 01/24/22 13:17**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-7**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:38 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:38 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:38 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:38 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:38 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *131* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 17:38* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 17:38* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:43 | 1 |

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# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 2 5'

**Date Collected: 01/24/22 13:17**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-7

**Matrix: Solid**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 18:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *67* | *S1-* | *70 - 130* | *01/31/22 14:58* | *02/02/22 18:43* | *1* |
| *o-Terphenyl (Surr)* | *75* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 18:43* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **14.2** | | 5.05 | | mg/Kg | | | 02/04/22 12:52 | 1 |

## Client Sample ID: PB 2 8'

**Date Collected: 01/24/22 13:18**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-8

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:59 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:59 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:59 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:59 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:59 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 17:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *124* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 17:59* | *1* |
| *1,4-Difluorobenzene (Surr)* | *78* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 17:59* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:06 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *73* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 19:06* | *1* |
| *o-Terphenyl (Surr)* | *81* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 19:06* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <49.8 | U | 49.8 | | mg/Kg | | | 02/03/22 16:46 | 10 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 3 1'

**Date Collected: 01/24/22 13:45**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-9

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:19 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:19 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:19 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:19 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:19 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 18:19* | *1* |
| *1,4-Difluorobenzene (Surr)* | *125* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 18:19* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:27 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:27 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *78* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 19:27* | *1* |
| *o-Terphenyl (Surr)* | *89* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 19:27* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1920** | | 24.9 | | mg/Kg | | | 02/03/22 16:58 | 5 |

## Client Sample ID: PB 3 3'

**Date Collected: 01/24/22 13:46**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-10

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:40 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:40 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:40 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:40 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:40 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 18:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 18:40* | *1* |
| *1,4-Difluorobenzene (Surr)* | *88* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 18:40* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 3 3'

**Date Collected: 01/24/22 13:46**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-10

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:49 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:49 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 19:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *72* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 19:49* | *1* |
| *o-Terphenyl (Surr)* | *81* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 19:49* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **210** | | 5.00 | | mg/Kg | | | 02/02/22 18:46 | 1 |

## Client Sample ID: PB 3 5'

**Date Collected: 01/24/22 13:47**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-11

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:30 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:30 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:30 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:30 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:30 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *130* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 20:30* | *1* |
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 20:30* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00397 | U | 0.00397 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:11 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:11 | 1 |

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# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 3 5'

**Date Collected: 01/24/22 13:47**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-11

**Matrix: Solid**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *63* | *S1-* | *70 - 130* | *01/31/22 14:58* | *02/02/22 20:11* | *1* |
| *o-Terphenyl (Surr)* | *70* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 20:11* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **235** | | 5.05 | | mg/Kg | | | 02/02/22 19:09 | 1 |

## Client Sample ID: PB 3 9'

**Date Collected: 01/24/22 13:48**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-12

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:50 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:50 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:50 | 1 |
| m,p-Xylenes | <0.00396 | U | 0.00396 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:50 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:50 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 20:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 20:50* | *1* |
| *1,4-Difluorobenzene (Surr)* | *79* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 20:50* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00396 | U | 0.00396 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:33 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:33 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *71* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 20:33* | *1* |
| *o-Terphenyl (Surr)* | *79* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 20:33* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **431** | | 4.95 | | mg/Kg | | | 02/02/22 19:16 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 4 1'

**Date Collected: 01/26/22 09:00**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-13**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:11 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:11 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:11 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:11 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:11 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *80* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 21:11* | *1* |
| *1,4-Difluorobenzene (Surr)* | *75* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 21:11* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:54 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:54 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 20:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *86* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 20:54* | *1* |
| *o-Terphenyl (Surr)* | *97* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 20:54* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **211** | | 4.99 | | mg/Kg | | | 02/02/22 19:24 | 1 |

## Client Sample ID: PB 4 3'

**Date Collected: 01/26/22 09:01**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-14**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:31 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:31 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:31 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:31 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:31 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 21:31* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 21:31* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 4 3'

**Date Collected: 01/26/22 09:01**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-14**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 01:34 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 01:34 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 01:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *90* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 01:34* | *1* |
| *o-Terphenyl (Surr)* | *89* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 01:34* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **48.5** | | 5.04 | | mg/Kg | | | 02/02/22 19:31 | 1 |

## Client Sample ID: PB 4 5'

**Date Collected: 01/26/22 09:02**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-15**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:52 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:52 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:52 | 1 |
| m,p-Xylenes | <0.00404 | U | 0.00404 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:52 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:52 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 21:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *138* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 21:52* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 21:52* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00404 | U | 0.00404 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 01:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 01:55 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 4 5'

**Date Collected: 01/26/22 09:02**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-15

**Matrix: Solid**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 01:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *103* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 01:55* | *1* |
| *o-Terphenyl (Surr)* | *101* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 01:55* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **747** | | 24.9 | | mg/Kg | | | 02/02/22 19:54 | 5 |

## Client Sample ID: PB 4 10'

**Date Collected: 01/26/22 09:02**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-16

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:12 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:12 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:12 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:12 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:12 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *134* | *S1+* | *70 - 130* | *01/28/22 10:53* | *01/28/22 22:12* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 22:12* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 02:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 02:16 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 02:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *83* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 02:16* | *1* |
| *o-Terphenyl (Surr)* | *81* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 02:16* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **5570** | | 49.8 | | mg/Kg | | | 02/02/22 20:02 | 10 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 5 1'

**Date Collected: 01/26/22 09:38**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-17

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:33 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:33 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:33 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:33 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:33 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *124* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 22:33* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 22:33* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 02:57 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 02:57 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 02:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *88* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 02:57* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 02:57* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **801** | | 5.00 | | mg/Kg | | | 02/02/22 20:09 | 1 |

## Client Sample ID: PB 5 3'

**Date Collected: 01/26/22 09:39**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-18

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:53 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:53 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:53 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:53 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:53 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 22:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *129* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 22:53* | *1* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 22:53* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 5 3'

**Date Collected: 01/26/22 09:39**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-18

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:18 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:18 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *81* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 03:18* | *1* |
| *o-Terphenyl (Surr)* | *82* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 03:18* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 82.7 | | 5.00 | | mg/Kg | | | 02/02/22 20:17 | 1 |

## Client Sample ID: PB 5 5'

**Date Collected: 01/26/22 09:40**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-19

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:14 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:14 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:14 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:14 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:14 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 23:14* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 23:14* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:38 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 5 5'

**Date Collected: 01/26/22 09:40**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-19

**Matrix: Solid**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *83* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 03:38* | *1* |
| *o-Terphenyl (Surr)* | *83* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 03:38* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **8.55** | | 4.95 | | mg/Kg | | | 02/02/22 23:10 | 1 |

## Client Sample ID: PB 5 10'

**Date Collected: 01/26/22 09:44**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-20

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:34 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:34 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:34 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:34 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:34 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 23:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *130* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 23:34* | *1* |
| *1,4-Difluorobenzene (Surr)* | *112* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 23:34* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:58 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 03:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *83* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 03:58* | *1* |
| *o-Terphenyl (Surr)* | *82* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 03:58* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **10.5** | | 5.00 | | mg/Kg | | | 02/02/22 23:33 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 6 1'

**Date Collected: 01/26/22 11:24**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-21**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U F1 F2 | 0.00202 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:13 | 1 |
| Toluene | <0.00202 | U F1 | 0.00202 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:13 | 1 |
| Ethylbenzene | <0.00202 | U F1 | 0.00202 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:13 | 1 |
| m,p-Xylenes | <0.00403 | U F1 | 0.00403 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:13 | 1 |
| o-Xylene | <0.00202 | U F1 | 0.00202 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:13 | 1 |
| Xylenes, Total | <0.00403 | U F1 | 0.00403 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *119* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 03:13* | *1* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 03:13* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 10:39 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 10:39 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 10:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *78* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 10:39* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 10:39* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **6640** | | 49.6 | | mg/Kg | | | 02/02/22 23:41 | 10 |

## Client Sample ID: PB 6 3'

**Date Collected: 01/26/22 11:25**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-22**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:33 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:33 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:33 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:33 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:33 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *126* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 03:33* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 03:33* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 6 3'

**Date Collected: 01/26/22 11:25**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-22**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 11:45 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 11:45 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 11:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *78* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 11:45* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 11:45* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **59.6** | | 4.97 | | mg/Kg | | | 02/02/22 23:48 | 1 |

## Client Sample ID: PB 6 5'

**Date Collected: 01/26/22 11:26**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-23**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:54 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:54 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:54 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:54 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:54 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 03:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *126* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 03:54* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 03:54* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:07 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:07 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 6 5'

**Date Collected: 01/26/22 11:26**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-23

**Matrix: Solid**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *89* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 12:07* | *1* |
| *o-Terphenyl (Surr)* | *98* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 12:07* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **224** | | 5.00 | | mg/Kg | | | 02/02/22 23:56 | 1 |

## Client Sample ID: PB 6 10'

**Date Collected: 01/26/22 11:27**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-24

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:14 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:14 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:14 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:14 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:14 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 04:14* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 04:14* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:28 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:28 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *70* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 12:28* | *1* |
| *o-Terphenyl (Surr)* | *79* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 12:28* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **470** | | 4.95 | | mg/Kg | | | 02/03/22 00:18 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 7 1'

**Date Collected: 01/26/22 10:21**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-25**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:35 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:35 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:35 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:35 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:35 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 04:35* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 04:35* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:50 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:50 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 12:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *77* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 12:50* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 12:50* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **4480** | | 25.0 | | mg/Kg | | | 02/03/22 00:26 | 5 |

## Client Sample ID: PB 7 3'

**Date Collected: 01/26/22 10:22**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-26**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:55 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:55 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:55 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:55 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:55 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 04:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *132* | *S1+* | *70 - 130* | *01/28/22 11:06* | *01/29/22 04:55* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 04:55* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 7 3'

**Date Collected: 01/26/22 10:22**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-26

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:12 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:12 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *72* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 13:12* | *1* |
| *o-Terphenyl (Surr)* | *80* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 13:12* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **51.5** | | 4.97 | | mg/Kg | | | 02/03/22 00:33 | 1 |

## Client Sample ID: PB 7 5'

**Date Collected: 01/26/22 10:23**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-27

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:16 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:16 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:16 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:16 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:16 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *119* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 05:16* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 05:16* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00397 | U | 0.00397 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:34 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:34 | 1 |

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# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 7 5'

**Lab Sample ID: 880-10694-27**
**Matrix: Solid**
**Date Collected: 01/26/22 10:23**
**Date Received: 01/28/22 10:03**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *81* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 13:34* | *1* |
| *o-Terphenyl (Surr)* | *95* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 13:34* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **30.1** | | 5.00 | | mg/Kg | | | 02/03/22 00:41 | 1 |

## Client Sample ID: PB 7 10'

**Lab Sample ID: 880-10694-28**
**Matrix: Solid**
**Date Collected: 01/26/22 10:24**
**Date Received: 01/28/22 10:03**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:36 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:36 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:36 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:36 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:36 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 05:36* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 05:36* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:56 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:56 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 13:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *85* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 13:56* | *1* |
| *o-Terphenyl (Surr)* | *96* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 13:56* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **80.3** | | 4.96 | | mg/Kg | | | 02/03/22 00:49 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 8 1'

**Date Collected: 01/26/22 13:53**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-29

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:56 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:56 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:56 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:56 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:56 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 05:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *142* | *S1+* | *70 - 130* | *01/28/22 11:06* | *01/29/22 05:56* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 05:56* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 14:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 14:16 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 14:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *77* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 14:16* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 14:16* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **16700** | | 101 | | mg/Kg | | | 02/03/22 00:56 | 20 |

## Client Sample ID: PB 8 3'

**Date Collected: 01/26/22 13:56**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-30

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 06:17 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 06:17 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 06:17 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 06:17 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 06:17 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 06:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 06:17* | *1* |
| *1,4-Difluorobenzene (Surr)* | *89* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 06:17* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 8 3'

**Date Collected: 01/26/22 13:56**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-30

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 14:39 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 14:39 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 14:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *84* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 14:39* | *1* |
| *o-Terphenyl (Surr)* | *96* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 14:39* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **16.9** | | 4.99 | | mg/Kg | | | 02/03/22 01:19 | 1 |

## Client Sample ID: PB 8 5'

**Date Collected: 01/26/22 13:55**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-31

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:07 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:07 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:07 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:07 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:07 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *131* | *S1+* | *70 - 130* | *01/28/22 11:06* | *01/29/22 08:07* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 08:07* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 15:36 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 15:36 | 1 |

Eurofins Midland

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 8 5'

**Date Collected: 01/26/22 13:55**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-31

**Matrix: Solid**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 15:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *92* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 15:36* | *1* |
| *o-Terphenyl (Surr)* | *107* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 15:36* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **80.4** | | 5.05 | | mg/Kg | | | 02/03/22 01:27 | 1 |

## Client Sample ID: PB 8 10'

**Date Collected: 01/26/22 13:56**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-32

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:27 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:27 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:27 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:27 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:27 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *127* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 08:27* | *1* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 08:27* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 15:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 15:55 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 15:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *80* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 15:55* | *1* |
| *o-Terphenyl (Surr)* | *90* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 15:55* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **6.70** | | 5.01 | | mg/Kg | | | 02/03/22 01:49 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 9 1'

**Date Collected: 01/27/22 09:56**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-33

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:48 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:48 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:48 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:48 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:48 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 08:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *136* | *S1+* | *70 - 130* | *01/28/22 11:06* | *01/29/22 08:48* | *1* |
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 08:48* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:15 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:15 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *67* | *S1-* | *70 - 130* | *01/31/22 15:02* | *02/03/22 16:15* | *1* |
| *o-Terphenyl (Surr)* | *74* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 16:15* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **16.4** | | 4.98 | | mg/Kg | | | 02/03/22 01:57 | 1 |

## Client Sample ID: PB 9 3'

**Date Collected: 01/27/22 09:57**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-34

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:08 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:08 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:08 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:08 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:08 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 09:08* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 09:08* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 9 3'

**Date Collected: 01/27/22 09:57**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-34

**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00397 | U | 0.00397 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:35 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:35 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *68* | *S1-* | *70 - 130* | *01/31/22 15:02* | *02/03/22 16:35* | *1* |
| *o-Terphenyl (Surr)* | *77* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 16:35* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **10.8** | | 5.00 | | mg/Kg | | | 02/03/22 02:04 | 1 |

## Client Sample ID: PB 9 5'

**Date Collected: 01/27/22 09:58**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-35

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:29 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:29 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:29 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:29 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:29 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *139* | *S1+* | *70 - 130* | *01/28/22 11:06* | *01/29/22 09:29* | *1* |
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 09:29* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:55 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 9 5'

**Date Collected: 01/27/22 09:58**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-35**
**Matrix: Solid**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 16:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *69* | *S1-* | *70 - 130* | *01/31/22 15:02* | *02/03/22 16:55* | *1* |
| *o-Terphenyl (Surr)* | *80* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 16:55* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **5.55** | | 4.96 | | mg/Kg | | | 02/03/22 02:12 | 1 |

## Client Sample ID: PB 9 10'

**Date Collected: 01/27/22 09:59**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-36**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:49 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:49 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:49 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:49 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:49 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 09:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *132* | *S1+* | *70 - 130* | *01/28/22 11:06* | *01/29/22 09:49* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 09:49* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:16 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *83* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 17:16* | *1* |
| *o-Terphenyl (Surr)* | *97* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 17:16* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.02 | U | 5.02 | | mg/Kg | | | 02/03/22 02:20 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 10 1'

**Date Collected: 01/27/22 10:29**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-37

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:10 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:10 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:10 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:10 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:10 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *118* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 10:10* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 10:10* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:36 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:36 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *89* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 17:36* | *1* |
| *o-Terphenyl (Surr)* | *99* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 17:36* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **11.3** | | 4.99 | | mg/Kg | | | 02/03/22 02:27 | 1 |

## Client Sample ID: PB 10 3'

**Date Collected: 01/27/22 10:30**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-38

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:30 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:30 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:30 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:30 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:30 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *130* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 10:30* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 10:30* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10694-1
Project/Site: Boo Radley SDG: 21-0105-08

## Client Sample ID: PB 10 3' Lab Sample ID: 880-10694-38
**Date Collected: 01/27/22 10:30** **Matrix: Solid**
**Date Received: 01/28/22 10:03**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:56 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:56 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 17:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *74* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 17:56* | *1* |
| *o-Terphenyl (Surr)* | *85* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 17:56* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 02/03/22 02:35 | 1 |

## Client Sample ID: PB 10 5' Lab Sample ID: 880-10694-39
**Date Collected: 01/27/22 10:31** **Matrix: Solid**
**Date Received: 01/28/22 10:03**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:51 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:51 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:51 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:51 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:51 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 10:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *127* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 10:51* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 10:51* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 18:15 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 18:15 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 10 5'

**Lab Sample ID: 880-10694-39**
**Matrix: Solid**
**Date Collected: 01/27/22 10:31**
**Date Received: 01/28/22 10:03**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 18:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *78* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 18:15* | *1* |
| *o-Terphenyl (Surr)* | *89* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 18:15* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **244** | **F1** | 5.00 | | mg/Kg | | | 02/03/22 11:30 | 1 |

## Client Sample ID: PB 10 10'

**Lab Sample ID: 880-10694-40**
**Matrix: Solid**
**Date Collected: 01/27/22 10:32**
**Date Received: 01/28/22 10:03**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 11:11 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 11:11 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 11:11 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 11:11 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 11:11 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 11:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *124* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 11:11* | *1* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 11:11* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 18:36 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 18:36 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 18:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *79* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 18:36* | *1* |
| *o-Terphenyl (Surr)* | *91* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 18:36* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **76.7** | | 4.98 | | mg/Kg | | | 02/03/22 11:53 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S1 1'

**Date Collected: 01/24/22 14:15**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-45**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:11 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:11 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:11 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:11 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:11 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *128* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 16:11* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 16:11* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 17:30 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 17:30 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 17:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *99* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 17:30* | *1* |
| *o-Terphenyl (Surr)* | *98* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 17:30* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1940** | | 25.0 | | mg/Kg | | | 02/03/22 12:46 | 5 |

## Client Sample ID: S1 3'

**Date Collected: 01/24/22 14:16**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-46**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:31 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:31 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:31 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:31 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:31 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *128* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 16:31* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 16:31* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S1 3'

**Date Collected: 01/24/22 14:16**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-46**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 17:51 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 17:51 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 17:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *88* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 17:51* | *1* |
| *o-Terphenyl (Surr)* | *83* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 17:51* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3260** | | 25.0 | | mg/Kg | | | 02/03/22 12:54 | 5 |

## Client Sample ID: S1 5'

**Date Collected: 01/24/22 14:17**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-47**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:52 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:52 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:52 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:52 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:52 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 16:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *128* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 16:52* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 16:52* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:12 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:12 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S1 5'

**Lab Sample ID: 880-10694-47**
**Matrix: Solid**
**Date Collected: 01/24/22 14:17**
**Date Received: 01/28/22 10:03**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *88* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 18:12* | *1* |
| *o-Terphenyl (Surr)* | *85* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 18:12* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1180** | | 49.5 | | mg/Kg | | | 02/03/22 13:01 | 10 |

## Client Sample ID: S1 9'

**Lab Sample ID: 880-10694-48**
**Matrix: Solid**
**Date Collected: 01/24/22 14:18**
**Date Received: 01/28/22 10:03**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:12 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:12 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:12 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:12 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:12 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *131* | *S1+* | *70 - 130* | *01/28/22 11:09* | *01/29/22 17:12* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 17:12* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:34 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:34 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *79* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 18:34* | *1* |
| *o-Terphenyl (Surr)* | *78* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 18:34* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **2530** | | 50.1 | | mg/Kg | | | 02/03/22 13:09 | 10 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S1 12'

**Date Collected: 01/24/22 14:19**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-49

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:33 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:33 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:33 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:33 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:33 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *120* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 17:33* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 17:33* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:55 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 18:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *93* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 18:55* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 18:55* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1010** | **F1** | 50.5 | | mg/Kg | | | 02/03/22 13:17 | 10 |

## Client Sample ID: S2 1'

**Date Collected: 01/26/22 08:08**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-50

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:53 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:53 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:53 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:53 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:53 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 17:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 17:53* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *01/28/22 11:09* | *01/29/22 17:53* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S2 1'

**Date Collected: 01/26/22 08:08**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-50**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 01/31/22 12:01 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:17 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:17 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *86* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 19:17* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 19:17* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3190** | | 24.9 | | mg/Kg | | | 02/03/22 13:39 | 5 |

## Client Sample ID: S2 3'

**Date Collected: 01/26/22 08:09**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-51**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:14 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:14 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:14 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:14 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:14 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *147* | *S1+* | *70 - 130* | *01/31/22 07:27* | *01/31/22 11:14* | *1* |
| *1,4-Difluorobenzene (Surr)* | *116* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 11:14* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:38 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S2 3'

**Date Collected: 01/26/22 08:09**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-51**
**Matrix: Solid**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *93* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 19:38* | *1* |
| *o-Terphenyl (Surr)* | *94* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 19:38* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **2100** | | 24.8 | | mg/Kg | | | 02/03/22 13:47 | 5 |

## Client Sample ID: S2 5'

**Date Collected: 01/26/22 08:10**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-52**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:35 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:35 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:35 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:35 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:35 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *129* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 11:35* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 11:35* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:59 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:59 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 19:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *85* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 19:59* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 19:59* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **2550** | | 24.9 | | mg/Kg | | | 02/03/22 14:09 | 5 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S2 9'

**Date Collected: 01/26/22 08:11**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-53**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:55 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:55 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:55 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:55 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:55 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 11:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *120* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 11:55* | *1* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 11:55* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 20:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 20:21 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 20:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *89* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 20:21* | *1* |
| *o-Terphenyl (Surr)* | *88* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 20:21* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **10200** | | 50.0 | | mg/Kg | | | 02/03/22 14:24 | 10 |

## Client Sample ID: S7 1'

**Date Collected: 01/26/22 12:35**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-54**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:16 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:16 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:16 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:16 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:16 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *126* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 12:16* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 12:16* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S7 1'

**Date Collected: 01/26/22 12:35**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-54**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 20:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 20:42 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 20:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *90* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 20:42* | *1* |
| *o-Terphenyl (Surr)* | *90* | | *70 - 130* | *01/31/22 12:13* | *02/02/22 20:42* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **390** | | 5.00 | | mg/Kg | | | 02/03/22 14:17 | 1 |

## Client Sample ID: S7 3'

**Date Collected: 01/26/22 12:36**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-55**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:36 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:36 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:36 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:36 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:36 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *131* | *S1+* | *70 - 130* | *01/31/22 07:27* | *01/31/22 12:36* | *1* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 12:36* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 04:19 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 04:19 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S7 3'

**Lab Sample ID: 880-10694-55**
**Matrix: Solid**
**Date Collected: 01/26/22 12:36**
**Date Received: 01/28/22 10:03**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 04:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *82* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 04:19* | *1* |
| *o-Terphenyl (Surr)* | *80* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 04:19* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **520** | | 5.03 | | mg/Kg | | | 02/03/22 14:32 | 1 |

## Client Sample ID: S7 5'

**Lab Sample ID: 880-10694-56**
**Matrix: Solid**
**Date Collected: 01/26/22 12:37**
**Date Received: 01/28/22 10:03**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:56 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:56 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:56 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:56 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:56 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 12:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *130* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 12:56* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 12:56* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 04:40 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 04:40 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 04:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *83* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 04:40* | *1* |
| *o-Terphenyl (Surr)* | *81* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 04:40* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **37.5** | | 4.99 | | mg/Kg | | | 02/03/22 14:40 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S7 10'

**Date Collected: 01/26/22 12:38**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-57**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:17 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:17 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:17 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:17 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:17 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *118* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 13:17* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 13:17* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:00 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *86* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 05:00* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 05:00* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **12.5** | | 5.00 | | mg/Kg | | | 02/03/22 14:47 | 1 |

## Client Sample ID: S8 1'

**Date Collected: 01/27/22 11:34**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-58**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:37 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:37 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:37 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:37 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:37 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *135* | *S1+* | *70 - 130* | *01/31/22 07:27* | *01/31/22 13:37* | *1* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 13:37* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S8 1'

**Date Collected: 01/27/22 11:34**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-58**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:22 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:22 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *98* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 05:22* | *1* |
| *o-Terphenyl (Surr)* | *96* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 05:22* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **48.8** | | 4.99 | | mg/Kg | | | 02/03/22 00:35 | 1 |

## Client Sample ID: S8 3'

**Date Collected: 01/27/22 11:35**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-59**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:58 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:58 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:58 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:58 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:58 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 13:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *131* | *S1+* | *70 - 130* | *01/31/22 07:27* | *01/31/22 13:58* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 13:58* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:43 | 1 |

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# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S8 3'

**Date Collected: 01/27/22 11:35**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-59**
**Matrix: Solid**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 05:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *84* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 05:43* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 05:43* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **28.1** | | 5.04 | | mg/Kg | | | 02/03/22 00:54 | 1 |

## Client Sample ID: S8 5'

**Date Collected: 01/27/22 11:36**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-60**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 14:18 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 14:18 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 14:18 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 14:18 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 14:18 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 14:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 14:18* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 14:18* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00397 | U | 0.00397 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 06:03 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 06:03 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/03/22 06:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *95* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 06:03* | *1* |
| *o-Terphenyl (Surr)* | *94* | | *70 - 130* | *02/02/22 08:25* | *02/03/22 06:03* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **23.6** | | 5.00 | | mg/Kg | | | 02/03/22 01:00 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S8 10'

**Date Collected: 01/27/22 11:37**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-61**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 11:44 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 11:44 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 11:44 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 11:44 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 11:44 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 11:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *148* | *S1+* | *70 - 130* | *01/28/22 13:19* | *01/29/22 11:44* | *1* |
| *1,4-Difluorobenzene (Surr)* | *105* | | *70 - 130* | *01/28/22 13:19* | *01/29/22 11:44* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 17:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 17:38 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 17:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *81* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 17:38* | *1* |
| *o-Terphenyl (Surr)* | *88* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 17:38* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **21.4** | | 4.95 | | mg/Kg | | | 02/03/22 01:06 | 1 |

## Client Sample ID: S9 1'

**Date Collected: 01/27/22 08:50**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-62**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:12 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:12 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:12 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:12 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:12 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *163* | *S1+* | *70 - 130* | *01/28/22 13:19* | *01/29/22 12:12* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | *01/28/22 13:19* | *01/29/22 12:12* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S9 1'

**Date Collected: 01/27/22 08:50**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-62**
**Matrix: Solid**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:00 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *69* | *S1-* | *70 - 130* | *01/31/22 15:06* | *02/02/22 18:00* | *1* |
| *o-Terphenyl (Surr)* | *75* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 18:00* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **13500** | | 100 | | mg/Kg | | | 02/03/22 01:12 | 20 |

## Client Sample ID: S9 3'

**Date Collected: 01/27/22 08:51**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-63**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:40 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:40 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:40 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:40 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:40 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 12:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *155* | *S1+* | *70 - 130* | *01/28/22 13:19* | *01/29/22 12:40* | *1* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* | *01/28/22 13:19* | *01/29/22 12:40* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:22 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:22 | 1 |

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# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S9 3'

**Date Collected: 01/27/22 08:51**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-63**
**Matrix: Solid**

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *77* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 18:22* | *1* |
| *o-Terphenyl (Surr)* | *89* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 18:22* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **281** | | 4.98 | | mg/Kg | | | 02/03/22 01:31 | 1 |

## Client Sample ID: S9 5'

**Date Collected: 01/27/22 08:52**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-64**
**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:08 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:08 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:08 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:08 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:08 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *156* | *S1+* | *70 - 130* | *01/28/22 13:19* | *01/29/22 13:08* | *1* |
| *1,4-Difluorobenzene (Surr)* | *109* | | *70 - 130* | *01/28/22 13:19* | *01/29/22 13:08* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:43 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 18:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *72* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 18:43* | *1* |
| *o-Terphenyl (Surr)* | *82* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 18:43* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **128** | | 4.99 | | mg/Kg | | | 02/03/22 01:37 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S9 10'

**Date Collected: 01/27/22 08:53**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-65

**Matrix: Solid**

### Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:36 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:36 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:36 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:36 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:36 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 13:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *147* | *S1+* | *70 - 130* | *01/28/22 13:19* | *01/29/22 13:36* | *1* |
| *1,4-Difluorobenzene (Surr)* | *10* | *S1-* | *70 - 130* | *01/28/22 13:19* | *01/29/22 13:36* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 02/03/22 13:55 | 1 |

### Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 02/02/22 16:07 | 1 |

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 19:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 19:06 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 19:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *91* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 19:06* | *1* |
| *o-Terphenyl (Surr)* | *101* | | *70 - 130* | *01/31/22 15:06* | *02/02/22 19:06* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **26.2** | | 5.00 | | mg/Kg | | | 02/03/22 01:43 | 1 |

# Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
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) |
| 880-10665-A-1-A MS | Matrix Spike | 113 | 102 |
| 880-10665-A-1-B MSD | Matrix Spike Duplicate | 139 S1+ | 110 |
| 880-10694-1 | PB 1 1' | 131 S1+ | 87 |
| 880-10694-1 MS | PB 1 1' | 93 | 73 |
| 880-10694-1 MSD | PB 1 1' | 110 | 112 |
| 880-10694-2 | PB 1 3' | 122 | 100 |
| 880-10694-3 | PB 1 5' | 136 S1+ | 91 |
| 880-10694-4 | PB 1 9' | 181 S1+ | 128 |
| 880-10694-5 | PB 2 1' | 114 | 137 S1+ |
| 880-10694-6 | PB 2 3' | 116 | 102 |
| 880-10694-7 | PB 2 5' | 131 S1+ | 102 |
| 880-10694-8 | PB 2 8' | 124 | 78 |
| 880-10694-9 | PB 3 1' | 123 | 125 |
| 880-10694-10 | PB 3 3' | 123 | 88 |
| 880-10694-11 | PB 3 5' | 130 | 113 |
| 880-10694-12 | PB 3 9' | 109 | 79 |
| 880-10694-13 | PB 4 1' | 80 | 75 |
| 880-10694-14 | PB 4 3' | 114 | 107 |
| 880-10694-15 | PB 4 5' | 138 S1+ | 98 |
| 880-10694-16 | PB 4 10' | 134 S1+ | 103 |
| 880-10694-17 | PB 5 1' | 124 | 100 |
| 880-10694-18 | PB 5 3' | 129 | 106 |
| 880-10694-19 | PB 5 5' | 123 | 94 |
| 880-10694-20 | PB 5 10' | 130 | 112 |
| 880-10694-21 | PB 6 1' | 119 | 97 |
| 880-10694-21 MS | PB 6 1' | 158 S1+ | 125 |
| 880-10694-21 MSD | PB 6 1' | 130 | 105 |
| 880-10694-22 | PB 6 3' | 126 | 108 |
| 880-10694-23 | PB 6 5' | 126 | 99 |
| 880-10694-24 | PB 6 10' | 122 | 108 |
| 880-10694-25 | PB 7 1' | 122 | 100 |
| 880-10694-26 | PB 7 3' | 132 S1+ | 102 |
| 880-10694-27 | PB 7 5' | 119 | 100 |
| 880-10694-28 | PB 7 10' | 123 | 94 |
| 880-10694-29 | PB 8 1' | 142 S1+ | 100 |
| 880-10694-30 | PB 8 3' | 113 | 89 |
| 880-10694-31 | PB 8 5' | 131 S1+ | 100 |
| 880-10694-32 | PB 8 10' | 127 | 111 |
| 880-10694-33 | PB 9 1' | 136 S1+ | 113 |
| 880-10694-34 | PB 9 3' | 115 | 98 |
| 880-10694-35 | PB 9 5' | 139 S1+ | 113 |
| 880-10694-36 | PB 9 10' | 132 S1+ | 108 |
| 880-10694-37 | PB 10 1' | 118 | 93 |
| 880-10694-38 | PB 10 3' | 130 | 107 |
| 880-10694-39 | PB 10 5' | 127 | 102 |
| 880-10694-40 | PB 10 10' | 124 | 104 |
| 880-10694-45 | S1 1' | 128 | 98 |
| 880-10694-46 | S1 3' | 128 | 107 |
| 880-10694-47 | S1 5' | 128 | 99 |

# Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-10694-1
Project/Site: Boo Radley SDG: 21-0105-08

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 880-10694-48 | S1 9' | 131 S1+ | 107 |
| 880-10694-49 | S1 12' | 120 | 90 |
| 880-10694-50 | S2 1' | 123 | 102 |
| 880-10694-51 | S2 3' | 147 S1+ | 116 |
| 880-10694-51 MS | S2 3' | 129 | 112 |
| 880-10694-51 MSD | S2 3' | 121 | 98 |
| 880-10694-52 | S2 5' | 129 | 99 |
| 880-10694-53 | S2 9' | 120 | 96 |
| 880-10694-54 | S7 1' | 126 | 99 |
| 880-10694-55 | S7 3' | 131 S1+ | 110 |
| 880-10694-56 | S7 5' | 130 | 102 |
| 880-10694-57 | S7 10' | 118 | 94 |
| 880-10694-58 | S8 1' | 135 S1+ | 104 |
| 880-10694-59 | S8 3' | 131 S1+ | 109 |
| 880-10694-60 | S8 5' | 122 | 107 |
| 880-10694-61 | S8 10' | 148 S1+ | 105 |
| 880-10694-62 | S9 1' | 163 S1+ | 99 |
| 880-10694-63 | S9 3' | 155 S1+ | 110 |
| 880-10694-64 | S9 5' | 156 S1+ | 109 |
| 880-10694-65 | S9 10' | 147 S1+ | 10 S1- |
| 880-10694-A-41-A MS | 880-10694-A-41-A MS | 130 | 95 |
| 880-10694-A-41-B MSD | 880-10694-A-41-B MSD | 133 S1+ | 99 |
| LCS 880-18031/1-A | Lab Control Sample | 102 | 92 |
| LCS 880-18038/1-A | Lab Control Sample | 123 | 110 |
| LCS 880-18039/1-A | Lab Control Sample | 127 | 100 |
| LCS 880-18045/1-A | Lab Control Sample | 132 S1+ | 111 |
| LCS 880-18099/1-A | Lab Control Sample | 119 | 101 |
| LCSD 880-18031/2-A | Lab Control Sample Dup | 115 | 104 |
| LCSD 880-18038/2-A | Lab Control Sample Dup | 122 | 98 |
| LCSD 880-18039/2-A | Lab Control Sample Dup | 118 | 103 |
| LCSD 880-18045/2-A | Lab Control Sample Dup | 139 S1+ | 113 |
| LCSD 880-18099/2-A | Lab Control Sample Dup | 120 | 98 |
| MB 880-17925/5-A | Method Blank | 88 | 96 |
| MB 880-18031/5-A | Method Blank | 122 | 98 |
| MB 880-18038/5-A | Method Blank | 122 | 105 |
| MB 880-18039/5-A | Method Blank | 115 | 95 |
| MB 880-18045/5-A | Method Blank | 92 | 100 |
| MB 880-18099/5-A | Method Blank | 128 | 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) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 880-10694-1 | PB 1 1' | 76 | 86 |
| 880-10694-1 MS | PB 1 1' | 60 S1- | 59 S1- |

# Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-10694-1
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) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) | | | | | | | | |
| 880-10694-1 MSD | PB 1 1' | 61 S1- | 61 S1- | | | | | | | | |
| 880-10694-2 | PB 1 3' | 75 | 87 | | | | | | | | |
| 880-10694-3 | PB 1 5' | 66 S1- | 74 | | | | | | | | |
| 880-10694-4 | PB 1 9' | 67 S1- | 74 | | | | | | | | |
| 880-10694-5 | PB 2 1' | 65 S1- | 74 | | | | | | | | |
| 880-10694-6 | PB 2 3' | 73 | 82 | | | | | | | | |
| 880-10694-7 | PB 2 5' | 67 S1- | 75 | | | | | | | | |
| 880-10694-8 | PB 2 8' | 73 | 81 | | | | | | | | |
| 880-10694-9 | PB 3 1' | 78 | 89 | | | | | | | | |
| 880-10694-10 | PB 3 3' | 72 | 81 | | | | | | | | |
| 880-10694-11 | PB 3 5' | 63 S1- | 70 | | | | | | | | |
| 880-10694-12 | PB 3 9' | 71 | 79 | | | | | | | | |
| 880-10694-13 | PB 4 1' | 86 | 97 | | | | | | | | |
| 880-10694-14 | PB 4 3' | 90 | 89 | | | | | | | | |
| 880-10694-15 | PB 4 5' | 103 | 101 | | | | | | | | |
| 880-10694-16 | PB 4 10' | 83 | 81 | | | | | | | | |
| 880-10694-17 | PB 5 1' | 88 | 86 | | | | | | | | |
| 880-10694-18 | PB 5 3' | 81 | 82 | | | | | | | | |
| 880-10694-19 | PB 5 5' | 83 | 83 | | | | | | | | |
| 880-10694-20 | PB 5 10' | 83 | 82 | | | | | | | | |
| 880-10694-21 | PB 6 1' | 78 | 87 | | | | | | | | |
| 880-10694-21 MS | PB 6 1' | 72 | 70 | | | | | | | | |
| 880-10694-21 MSD | PB 6 1' | 72 | 68 S1- | | | | | | | | |
| 880-10694-22 | PB 6 3' | 78 | 87 | | | | | | | | |
| 880-10694-23 | PB 6 5' | 89 | 98 | | | | | | | | |
| 880-10694-24 | PB 6 10' | 70 | 79 | | | | | | | | |
| 880-10694-25 | PB 7 1' | 77 | 86 | | | | | | | | |
| 880-10694-26 | PB 7 3' | 72 | 80 | | | | | | | | |
| 880-10694-27 | PB 7 5' | 81 | 95 | | | | | | | | |
| 880-10694-28 | PB 7 10' | 85 | 96 | | | | | | | | |
| 880-10694-29 | PB 8 1' | 77 | 87 | | | | | | | | |
| 880-10694-30 | PB 8 3' | 84 | 96 | | | | | | | | |
| 880-10694-31 | PB 8 5' | 92 | 107 | | | | | | | | |
| 880-10694-32 | PB 8 10' | 80 | 90 | | | | | | | | |
| 880-10694-33 | PB 9 1' | 67 S1- | 74 | | | | | | | | |
| 880-10694-34 | PB 9 3' | 68 S1- | 77 | | | | | | | | |
| 880-10694-35 | PB 9 5' | 69 S1- | 80 | | | | | | | | |
| 880-10694-36 | PB 9 10' | 83 | 97 | | | | | | | | |
| 880-10694-37 | PB 10 1' | 89 | 99 | | | | | | | | |
| 880-10694-38 | PB 10 3' | 74 | 85 | | | | | | | | |
| 880-10694-39 | PB 10 5' | 78 | 89 | | | | | | | | |
| 880-10694-40 | PB 10 10' | 79 | 91 | | | | | | | | |
| 880-10694-45 | S1 1' | 99 | 98 | | | | | | | | |
| 880-10694-46 | S1 3' | 88 | 83 | | | | | | | | |
| 880-10694-47 | S1 5' | 88 | 85 | | | | | | | | |
| 880-10694-48 | S1 9' | 79 | 78 | | | | | | | | |
| 880-10694-49 | S1 12' | 93 | 86 | | | | | | | | |
| 880-10694-50 | S2 1' | 86 | 87 | | | | | | | | |
| 880-10694-51 | S2 3' | 93 | 94 | | | | | | | | |
| 880-10694-52 | S2 5' | 85 | 86 | | | | | | | | |

# Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-10694-1
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) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 880-10694-53 | S2 9' | 89 | 88 |
| 880-10694-54 | S7 1' | 90 | 90 |
| 880-10694-55 | S7 3' | 82 | 80 |
| 880-10694-56 | S7 5' | 83 | 81 |
| 880-10694-57 | S7 10' | 86 | 87 |
| 880-10694-58 | S8 1' | 98 | 96 |
| 880-10694-59 | S8 3' | 84 | 87 |
| 880-10694-60 | S8 5' | 95 | 94 |
| 880-10694-61 | S8 10' | 81 | 88 |
| 880-10694-62 | S9 1' | 69 S1- | 75 |
| 880-10694-63 | S9 3' | 77 | 89 |
| 880-10694-64 | S9 5' | 72 | 82 |
| 880-10694-65 | S9 10' | 91 | 101 |
| 880-10694-A-41-E MS | 880-10694-A-41-E MS | 74 | 71 |
| 880-10694-A-41-F MSD | 880-10694-A-41-F MSD | 74 | 68 S1- |
| 880-10698-A-1-C MS | Matrix Spike | 66 S1- | 64 S1- |
| 880-10698-A-1-D MSD | Matrix Spike Duplicate | 66 S1- | 66 S1- |
| 880-10735-B-1-F MS | Matrix Spike | 82 | 79 |
| 880-10735-B-1-G MSD | Matrix Spike Duplicate | 78 | 81 |
| LCS 880-18188/2-A | Lab Control Sample | 79 | 84 |
| LCS 880-18189/2-A | Lab Control Sample | 96 | 98 |
| LCS 880-18190/2-A | Lab Control Sample | 94 | 96 |
| LCSD 880-18188/3-A | Lab Control Sample Dup | 90 | 90 |
| LCSD 880-18189/3-A | Lab Control Sample Dup | 100 | 103 |
| LCSD 880-18190/3-A | Lab Control Sample Dup | 92 | 92 |
| MB 880-18188/1-A | Method Blank | 63 S1- | 74 |
| MB 880-18189/1-A | Method Blank | 82 | 96 |
| MB 880-18190/1-A | Method Blank | 74 | 82 |

**Surrogate Legend**

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO2 (70-130) | OTPH2 (70-130) |
| LCS 880-18166/2-A | Lab Control Sample | 71 | 76 |
| LCS 880-18336/2-A | Lab Control Sample | 78 | 82 |
| LCSD 880-18166/3-A | Lab Control Sample Dup | 81 | 85 |
| LCSD 880-18336/3-A | Lab Control Sample Dup | 78 | 82 |
| MB 880-18166/1-A | Method Blank | 84 | 83 |
| MB 880-18336/1-A | Method Blank | 85 | 86 |

**Surrogate Legend**

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8021B - Volatile Organic Compounds (GC)

### Lab Sample ID: MB 880-17925/5-A
### Matrix: Solid
### Analysis Batch: 17866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17925

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 07:30 | 01/28/22 20:16 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 07:30 | 01/28/22 20:16 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 07:30 | 01/28/22 20:16 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 07:30 | 01/28/22 20:16 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 07:30 | 01/28/22 20:16 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 07:30 | 01/28/22 20:16 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *88* | | *70 - 130* | *01/28/22 07:30* | *01/28/22 20:16* | *1* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* | *01/28/22 07:30* | *01/28/22 20:16* | *1* |

### Lab Sample ID: MB 880-18031/5-A
### Matrix: Solid
### Analysis Batch: 18042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18031

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:07 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:07 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:07 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:07 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:07 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 10:53 | 01/28/22 15:07 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 15:07* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *01/28/22 10:53* | *01/28/22 15:07* | *1* |

### Lab Sample ID: LCS 880-18031/1-A
### Matrix: Solid
### Analysis Batch: 18042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18031

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.07770 | | mg/Kg | | 78 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.08209 | | mg/Kg | | 82 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.08461 | | mg/Kg | | 85 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.1669 | | mg/Kg | | 83 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.08330 | | mg/Kg | | 83 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *102* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *92* | | *70 - 130* |

### Lab Sample ID: LCSD 880-18031/2-A
### Matrix: Solid
### Analysis Batch: 18042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 18031

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09311 | | mg/Kg | | 93 | 70 - 130 | 18 | 35 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: LCSD 880-18031/2-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18031**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | | | 0.100 | 0.09680 | | mg/Kg | | 97 | 70 - 130 | 16 | 35 |
| Ethylbenzene | | | 0.100 | 0.09568 | | mg/Kg | | 96 | 70 - 130 | 12 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1920 | | mg/Kg | | 96 | 70 - 130 | 14 | 35 |
| o-Xylene | | | 0.100 | 0.09552 | | mg/Kg | | 96 | 70 - 130 | 14 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* |

**Lab Sample ID: 880-10694-1 MS**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: PB 1 1'**
**Prep Type: Total/NA**
**Prep Batch: 18031**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 | 0.0998 | 0.04748 | F1 | mg/Kg | | 48 | 70 - 130 |
| Toluene | <0.00200 | U F1 | 0.0998 | 0.06082 | F1 | mg/Kg | | 61 | 70 - 130 |
| Ethylbenzene | <0.00200 | U F1 F2 | 0.0998 | 0.05176 | F1 | mg/Kg | | 52 | 70 - 130 |
| m,p-Xylenes | <0.00401 | U F1 | 0.200 | 0.1156 | F1 | mg/Kg | | 58 | 70 - 130 |
| o-Xylene | <0.00200 | U F1 | 0.0998 | 0.05475 | F1 | mg/Kg | | 55 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *93* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *73* | | *70 - 130* |

**Lab Sample ID: 880-10694-1 MSD**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: PB 1 1'**
**Prep Type: Total/NA**
**Prep Batch: 18031**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 | 0.0994 | 0.06281 | F1 | mg/Kg | | 63 | 70 - 130 | 28 | 35 |
| Toluene | <0.00200 | U F1 | 0.0994 | 0.07169 | | mg/Kg | | 72 | 70 - 130 | 16 | 35 |
| Ethylbenzene | <0.00200 | U F1 F2 | 0.0994 | 0.07978 | F2 | mg/Kg | | 80 | 70 - 130 | 43 | 35 |
| m,p-Xylenes | <0.00401 | U F1 | 0.199 | 0.1369 | F1 | mg/Kg | | 69 | 70 - 130 | 17 | 35 |
| o-Xylene | <0.00200 | U F1 | 0.0994 | 0.06334 | F1 | mg/Kg | | 64 | 70 - 130 | 15 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *112* | | *70 - 130* |

**Lab Sample ID: MB 880-18038/5-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18038**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 02:44 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 02:44 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 02:44 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 02:44 | 1 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: MB 880-18038/5-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18038**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 02:44 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:06 | 01/29/22 02:44 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 02:44* | *1* |
| *1,4-Difluorobenzene (Surr)* | *105* | | *70 - 130* | *01/28/22 11:06* | *01/29/22 02:44* | *1* |

**Lab Sample ID: LCS 880-18038/1-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18038**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09099 | | mg/Kg | | 91 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09104 | | mg/Kg | | 91 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.08841 | | mg/Kg | | 88 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.1786 | | mg/Kg | | 89 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.09691 | | mg/Kg | | 97 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* |

**Lab Sample ID: LCSD 880-18038/2-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18038**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09006 | | mg/Kg | | 90 | 70 - 130 | 1 | 35 |
| Toluene | | | 0.100 | 0.09110 | | mg/Kg | | 91 | 70 - 130 | 0 | 35 |
| Ethylbenzene | | | 0.100 | 0.09285 | | mg/Kg | | 93 | 70 - 130 | 5 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1802 | | mg/Kg | | 90 | 70 - 130 | 1 | 35 |
| o-Xylene | | | 0.100 | 0.09242 | | mg/Kg | | 92 | 70 - 130 | 5 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* |

**Lab Sample ID: 880-10694-21 MS**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: PB 6 1'**
**Prep Type: Total/NA**
**Prep Batch: 18038**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U F1 F2 | 0.0992 | 0.04795 | F1 | mg/Kg | | 48 | 70 - 130 | | |
| Toluene | <0.00202 | U F1 | 0.0992 | 0.06138 | F1 | mg/Kg | | 62 | 70 - 130 | | |
| Ethylbenzene | <0.00202 | U F1 | 0.0992 | 0.06660 | F1 | mg/Kg | | 67 | 70 - 130 | | |
| m,p-Xylenes | <0.00403 | U F1 | 0.198 | 0.1062 | F1 | mg/Kg | | 54 | 70 - 130 | | |
| o-Xylene | <0.00202 | U F1 | 0.0992 | 0.05284 | F1 | mg/Kg | | 53 | 70 - 130 | | |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: 880-10694-21 MS**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: PB 6 1'**
**Prep Type: Total/NA**
**Prep Batch: 18038**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 158 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 125 | | 70 - 130 |

**Lab Sample ID: 880-10694-21 MSD**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: PB 6 1'**
**Prep Type: Total/NA**
**Prep Batch: 18038**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U F1 F2 | 0.100 | 0.07778 | F2 | mg/Kg | | 77 | 70 - 130 | 47 | 35 |
| Toluene | <0.00202 | U F1 | 0.100 | 0.08429 | | mg/Kg | | 84 | 70 - 130 | 31 | 35 |
| Ethylbenzene | <0.00202 | U F1 | 0.100 | 0.07725 | | mg/Kg | | 77 | 70 - 130 | 15 | 35 |
| m,p-Xylenes | <0.00403 | U F1 | 0.201 | 0.1487 | | mg/Kg | | 74 | 70 - 130 | 33 | 35 |
| o-Xylene | <0.00202 | U F1 | 0.100 | 0.07500 | | mg/Kg | | 75 | 70 - 130 | 35 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 130 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 |

**Lab Sample ID: MB 880-18039/5-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18039**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 14:20 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 14:20 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 14:20 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 14:20 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 14:20 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 11:09 | 01/29/22 14:20 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 115 | | 70 - 130 | 01/28/22 11:09 | 01/29/22 14:20 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 01/28/22 11:09 | 01/29/22 14:20 | 1 |

**Lab Sample ID: LCS 880-18039/1-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18039**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.07396 | | mg/Kg | | 74 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.08273 | | mg/Kg | | 83 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.07885 | | mg/Kg | | 79 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.1535 | | mg/Kg | | 77 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.07933 | | mg/Kg | | 79 | 70 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 127 | | 70 - 130 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: LCS 880-18039/1-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18039**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

**Lab Sample ID: LCSD 880-18039/2-A**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18039**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.08547 | | mg/Kg | | 85 | 70 - 130 | 14 | 35 |
| Toluene | | | 0.100 | 0.08682 | | mg/Kg | | 87 | 70 - 130 | 5 | 35 |
| Ethylbenzene | | | 0.100 | 0.08669 | | mg/Kg | | 87 | 70 - 130 | 9 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1622 | | mg/Kg | | 81 | 70 - 130 | 6 | 35 |
| o-Xylene | | | 0.100 | 0.08385 | | mg/Kg | | 84 | 70 - 130 | 6 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 |

**Lab Sample ID: 880-10694-A-41-A MS**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: 880-10694-A-41-A MS**
**Prep Type: Total/NA**
**Prep Batch: 18039**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U F1 | 0.0998 | 0.05572 | F1 | mg/Kg | | 56 | 70 - 130 | | |
| Toluene | <0.00202 | U F1 | 0.0998 | 0.05425 | F1 | mg/Kg | | 54 | 70 - 130 | | |
| Ethylbenzene | <0.00202 | U F1 | 0.0998 | 0.05876 | F1 | mg/Kg | | 59 | 70 - 130 | | |
| m,p-Xylenes | <0.00403 | U F1 | 0.200 | 0.1144 | F1 | mg/Kg | | 57 | 70 - 130 | | |
| o-Xylene | <0.00202 | U F1 | 0.0998 | 0.05728 | F1 | mg/Kg | | 57 | 70 - 130 | | |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 130 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 |

**Lab Sample ID: 880-10694-A-41-B MSD**
**Matrix: Solid**
**Analysis Batch: 18042**

**Client Sample ID: 880-10694-A-41-B MSD**
**Prep Type: Total/NA**
**Prep Batch: 18039**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U F1 | 0.0994 | 0.05628 | F1 | mg/Kg | | 57 | 70 - 130 | 1 | 35 |
| Toluene | <0.00202 | U F1 | 0.0994 | 0.05496 | F1 | mg/Kg | | 55 | 70 - 130 | 1 | 35 |
| Ethylbenzene | <0.00202 | U F1 | 0.0994 | 0.05818 | F1 | mg/Kg | | 59 | 70 - 130 | 1 | 35 |
| m,p-Xylenes | <0.00403 | U F1 | 0.199 | 0.1134 | F1 | mg/Kg | | 57 | 70 - 130 | 1 | 35 |
| o-Xylene | <0.00202 | U F1 | 0.0994 | 0.05775 | F1 | mg/Kg | | 58 | 70 - 130 | 1 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 133 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

### Lab Sample ID: MB 880-18045/5-A
### Matrix: Solid
### Analysis Batch: 17866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18045

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 10:47 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 10:47 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 10:47 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 10:47 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 10:47 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/28/22 13:19 | 01/29/22 10:47 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *92* | | *70 - 130* | *01/28/22 13:19* | *01/29/22 10:47* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *01/28/22 13:19* | *01/29/22 10:47* | *1* |

### Lab Sample ID: LCS 880-18045/1-A
### Matrix: Solid
### Analysis Batch: 17866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18045

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1180 | | mg/Kg | | 118 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09779 | | mg/Kg | | 98 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.09356 | | mg/Kg | | 94 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.2052 | | mg/Kg | | 103 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.1106 | | mg/Kg | | 111 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *132* | *S1+* | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* |

### Lab Sample ID: LCSD 880-18045/2-A
### Matrix: Solid
### Analysis Batch: 17866

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 18045

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1214 | | mg/Kg | | 121 | 70 - 130 | 3 | 35 |
| Toluene | | | 0.100 | 0.09969 | | mg/Kg | | 100 | 70 - 130 | 2 | 35 |
| Ethylbenzene | | | 0.100 | 0.09654 | | mg/Kg | | 97 | 70 - 130 | 3 | 35 |
| m,p-Xylenes | | | 0.200 | 0.2110 | | mg/Kg | | 106 | 70 - 130 | 3 | 35 |
| o-Xylene | | | 0.100 | 0.1131 | | mg/Kg | | 113 | 70 - 130 | 2 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *139* | *S1+* | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* |

### Lab Sample ID: 880-10665-A-1-A MS
### Matrix: Solid
### Analysis Batch: 17866

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 18045

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U F1 F2 | 0.100 | 0.03423 | F1 | mg/Kg | | 34 | 70 - 130 | | |
| Toluene | <0.00199 | U F1 F2 | 0.100 | 0.02935 | F1 | mg/Kg | | 29 | 70 - 130 | | |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: 880-10665-A-1-A MS**
**Matrix: Solid**
**Analysis Batch: 17866**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 18045**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00199 | U F1 F2 | 0.100 | 0.03014 | F1 | mg/Kg | | 30 | 70 - 130 |
| m,p-Xylenes | <0.00398 | U F1 F2 | 0.201 | 0.06491 | F1 | mg/Kg | | 32 | 70 - 130 |
| o-Xylene | <0.00199 | U F1 F2 | 0.100 | 0.03365 | F1 | mg/Kg | | 34 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* |

**Lab Sample ID: 880-10665-A-1-B MSD**
**Matrix: Solid**
**Analysis Batch: 17866**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 18045**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U F1 F2 | 0.0990 | 0.09259 | F2 | mg/Kg | | 94 | 70 - 130 | 92 | 35 |
| Toluene | <0.00199 | U F1 F2 | 0.0990 | 0.07678 | F2 | mg/Kg | | 78 | 70 - 130 | 89 | 35 |
| Ethylbenzene | <0.00199 | U F1 F2 | 0.0990 | 0.07044 | F2 | mg/Kg | | 71 | 70 - 130 | 80 | 35 |
| m,p-Xylenes | <0.00398 | U F1 F2 | 0.198 | 0.1532 | F2 | mg/Kg | | 77 | 70 - 130 | 81 | 35 |
| o-Xylene | <0.00199 | U F1 F2 | 0.0990 | 0.08203 | F2 | mg/Kg | | 83 | 70 - 130 | 84 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *139* | *S1+* | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* |

**Lab Sample ID: MB 880-18099/5-A**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 10:45 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 10:45 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 10:45 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 10:45 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 10:45 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 01/31/22 07:27 | 01/31/22 10:45 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *128* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 10:45* | *1* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* | *01/31/22 07:27* | *01/31/22 10:45* | *1* |

**Lab Sample ID: LCS 880-18099/1-A**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.1021 | | mg/Kg | | 102 | 70 - 130 |
| Toluene | 0.100 | 0.1028 | | mg/Kg | | 103 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1043 | | mg/Kg | | 104 | 70 - 130 |
| m,p-Xylenes | 0.200 | 0.2093 | | mg/Kg | | 105 | 70 - 130 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: LCS 880-18099/1-A**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | | | 0.100 | 0.1006 | | mg/Kg | | 101 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *119* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* |

**Lab Sample ID: LCSD 880-18099/2-A**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09158 | | mg/Kg | | 92 | 70 - 130 | 11 | 35 |
| Toluene | | | 0.100 | 0.09843 | | mg/Kg | | 98 | 70 - 130 | 4 | 35 |
| Ethylbenzene | | | 0.100 | 0.1031 | | mg/Kg | | 103 | 70 - 130 | 1 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1937 | | mg/Kg | | 97 | 70 - 130 | 8 | 35 |
| o-Xylene | | | 0.100 | 0.09376 | | mg/Kg | | 94 | 70 - 130 | 7 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *120* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* |

**Lab Sample ID: 880-10694-51 MS**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: S2 3'**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.0992 | 0.1027 | | mg/Kg | | 104 | 70 - 130 | | |
| Toluene | <0.00199 | U | 0.0992 | 0.1031 | | mg/Kg | | 104 | 70 - 130 | | |
| Ethylbenzene | <0.00199 | U | 0.0992 | 0.1033 | | mg/Kg | | 104 | 70 - 130 | | |
| m,p-Xylenes | <0.00398 | U | 0.198 | 0.1980 | | mg/Kg | | 100 | 70 - 130 | | |
| o-Xylene | <0.00199 | U | 0.0992 | 0.1037 | | mg/Kg | | 105 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *129* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *112* | | *70 - 130* |

**Lab Sample ID: 880-10694-51 MSD**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: S2 3'**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.0992 | 0.09491 | | mg/Kg | | 96 | 70 - 130 | 8 | 35 |
| Toluene | <0.00199 | U | 0.0992 | 0.09611 | | mg/Kg | | 97 | 70 - 130 | 7 | 35 |
| Ethylbenzene | <0.00199 | U | 0.0992 | 0.1006 | | mg/Kg | | 101 | 70 - 130 | 3 | 35 |
| m,p-Xylenes | <0.00398 | U | 0.198 | 0.1893 | | mg/Kg | | 95 | 70 - 130 | 4 | 35 |
| o-Xylene | <0.00199 | U | 0.0992 | 0.09620 | | mg/Kg | | 97 | 70 - 130 | 7 | 35 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Lab Sample ID: 880-10694-51 MSD**
**Matrix: Solid**
**Analysis Batch: 18101**

**Client Sample ID: S2 3'**
**Prep Type: Total/NA**
**Prep Batch: 18099**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 121 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 880-18166/1-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18166**

| 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 | | 01/31/22 12:13 | 02/02/22 11:41 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 11:41 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 12:13 | 02/02/22 11:41 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane (Surr) | 84 | | 70 - 130 | 01/31/22 12:13 | 02/02/22 11:41 | 1 |
| o-Terphenyl (Surr) | 83 | | 70 - 130 | 01/31/22 12:13 | 02/02/22 11:41 | 1 |

**Lab Sample ID: LCS 880-18166/2-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18166**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 698.7 | | mg/Kg | | 70 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 887.6 | | mg/Kg | | 89 | 70 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 71 | | 70 - 130 |
| o-Terphenyl (Surr) | 76 | | 70 - 130 |

**Lab Sample ID: LCSD 880-18166/3-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18166**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 709.4 | | mg/Kg | | 71 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 929.6 | | mg/Kg | | 93 | 70 - 130 | 5 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 81 | | 70 - 130 |
| o-Terphenyl (Surr) | 85 | | 70 - 130 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: 880-10694-A-41-E MS**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: 880-10694-A-41-E MS**
**Prep Type: Total/NA**
**Prep Batch: 18166**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 761.6 | | mg/Kg | | 74 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 908.1 | | mg/Kg | | 91 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *74* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *71* | | *70 - 130* |

**Lab Sample ID: 880-10694-A-41-F MSD**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: 880-10694-A-41-F MSD**
**Prep Type: Total/NA**
**Prep Batch: 18166**

| 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 | 793.9 | | mg/Kg | | 78 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 984.5 | | mg/Kg | | 99 | 70 - 130 | 8 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *74* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *68* | *S1-* | *70 - 130* |

**Lab Sample ID: MB 880-18188/1-A**
**Matrix: Solid**
**Analysis Batch: 18337**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18188**

| 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 | | 01/31/22 14:58 | 02/02/22 11:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 11:37 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 14:58 | 02/02/22 11:37 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *63* | *S1-* | *70 - 130* | *01/31/22 14:58* | *02/02/22 11:37* | *1* |
| *o-Terphenyl (Surr)* | *74* | | *70 - 130* | *01/31/22 14:58* | *02/02/22 11:37* | *1* |

**Lab Sample ID: LCS 880-18188/2-A**
**Matrix: Solid**
**Analysis Batch: 18337**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18188**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 738.9 | | mg/Kg | | 74 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 931.1 | | mg/Kg | | 93 | 70 - 130 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 880-18188/2-A**
**Matrix: Solid**
**Analysis Batch: 18337**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18188**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 79 | | 70 - 130 |
| o-Terphenyl (Surr) | 84 | | 70 - 130 |

**Lab Sample ID: LCSD 880-18188/3-A**
**Matrix: Solid**
**Analysis Batch: 18337**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18188**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 839.7 | | mg/Kg | | 84 | 70 - 130 | 13 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1042 | | mg/Kg | | 104 | 70 - 130 | 11 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 90 | | 70 - 130 |
| o-Terphenyl (Surr) | 90 | | 70 - 130 |

**Lab Sample ID: 880-10694-1 MS**
**Matrix: Solid**
**Analysis Batch: 18337**

**Client Sample ID: PB 1 1'**
**Prep Type: Total/NA**
**Prep Batch: 18188**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 834.7 | | mg/Kg | | 84 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 992.2 | | mg/Kg | | 97 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 60 | S1- | 70 - 130 |
| o-Terphenyl (Surr) | 59 | S1- | 70 - 130 |

**Lab Sample ID: 880-10694-1 MSD**
**Matrix: Solid**
**Analysis Batch: 18337**

**Client Sample ID: PB 1 1'**
**Prep Type: Total/NA**
**Prep Batch: 18188**

| 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 | 852.3 | | mg/Kg | | 85 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 1020 | | mg/Kg | | 100 | 70 - 130 | 3 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 61 | S1- | 70 - 130 |
| o-Terphenyl (Surr) | 61 | S1- | 70 - 130 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: MB 880-18189/1-A**
**Matrix: Solid**
**Analysis Batch: 18455**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18189**

| 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 | | 01/31/22 15:02 | 02/03/22 09:33 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 09:33 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:02 | 02/03/22 09:33 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *82* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 09:33* | *1* |
| *o-Terphenyl (Surr)* | *96* | | *70 - 130* | *01/31/22 15:02* | *02/03/22 09:33* | *1* |

**Lab Sample ID: LCS 880-18189/2-A**
**Matrix: Solid**
**Analysis Batch: 18455**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18189**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 824.6 | | mg/Kg | | 82 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1114 | | mg/Kg | | 111 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *96* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *98* | | *70 - 130* |

**Lab Sample ID: LCSD 880-18189/3-A**
**Matrix: Solid**
**Analysis Batch: 18455**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18189**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 911.4 | | mg/Kg | | 91 | 70 - 130 | 10 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1212 | | mg/Kg | | 121 | 70 - 130 | 8 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *100* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *103* | | *70 - 130* |

**Lab Sample ID: 880-10694-21 MS**
**Matrix: Solid**
**Analysis Batch: 18455**

**Client Sample ID: PB 6 1'**
**Prep Type: Total/NA**
**Prep Batch: 18189**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 1024 | | mg/Kg | | 103 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 1242 | | mg/Kg | | 124 | 70 - 130 | | |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: 880-10694-21 MS**
**Matrix: Solid**
**Analysis Batch: 18455**

**Client Sample ID: PB 6 1'**
**Prep Type: Total/NA**
**Prep Batch: 18189**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 72 | | 70 - 130 |
| o-Terphenyl (Surr) | 70 | | 70 - 130 |

**Lab Sample ID: 880-10694-21 MSD**
**Matrix: Solid**
**Analysis Batch: 18455**

**Client Sample ID: PB 6 1'**
**Prep Type: Total/NA**
**Prep Batch: 18189**

| 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 | 1036 | | mg/Kg | | 104 | 70 - 130 | 1 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 1233 | | mg/Kg | | 123 | 70 - 130 | 1 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 72 | | 70 - 130 |
| o-Terphenyl (Surr) | 68 | S1- | 70 - 130 |

**Lab Sample ID: MB 880-18190/1-A**
**Matrix: Solid**
**Analysis Batch: 18339**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18190**

| 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 | | 01/31/22 15:06 | 02/02/22 11:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 11:37 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/31/22 15:06 | 02/02/22 11:37 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane (Surr) | 74 | | 70 - 130 | 01/31/22 15:06 | 02/02/22 11:37 | 1 |
| o-Terphenyl (Surr) | 82 | | 70 - 130 | 01/31/22 15:06 | 02/02/22 11:37 | 1 |

**Lab Sample ID: LCS 880-18190/2-A**
**Matrix: Solid**
**Analysis Batch: 18339**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18190**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 870.1 | | mg/Kg | | 87 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1097 | | mg/Kg | | 110 | 70 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 94 | | 70 - 130 |
| o-Terphenyl (Surr) | 96 | | 70 - 130 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCSD 880-18190/3-A**
**Matrix: Solid**
**Analysis Batch: 18339**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18190**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 842.4 | | mg/Kg | | 84 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1061 | | mg/Kg | | 106 | 70 - 130 | 3 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *92* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *92* | | *70 - 130* |

**Lab Sample ID: 880-10698-A-1-C MS**
**Matrix: Solid**
**Analysis Batch: 18339**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 18190**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 776.3 | | mg/Kg | | 78 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 887.8 | | mg/Kg | | 87 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *66* | *S1-* | *70 - 130* |
| *o-Terphenyl (Surr)* | *64* | *S1-* | *70 - 130* |

**Lab Sample ID: 880-10698-A-1-D MSD**
**Matrix: Solid**
**Analysis Batch: 18339**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 18190**

| 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 | 750.2 | | mg/Kg | | 75 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 924.5 | | mg/Kg | | 91 | 70 - 130 | 4 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *66* | *S1-* | *70 - 130* |
| *o-Terphenyl (Surr)* | *66* | *S1-* | *70 - 130* |

**Lab Sample ID: MB 880-18336/1-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18336**

| 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 | | 02/02/22 08:25 | 02/02/22 21:25 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/02/22 21:25 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 02/02/22 08:25 | 02/02/22 21:25 | 1 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: MB 880-18336/1-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18336**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane (Surr) | 85 | | 70 - 130 | 02/02/22 08:25 | 02/02/22 21:25 | 1 |
| o-Terphenyl (Surr) | 86 | | 70 - 130 | 02/02/22 08:25 | 02/02/22 21:25 | 1 |

**Lab Sample ID: LCS 880-18336/2-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18336**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 837.3 | | mg/Kg | | 84 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1106 | | mg/Kg | | 111 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 78 | | 70 - 130 |
| o-Terphenyl (Surr) | 82 | | 70 - 130 |

**Lab Sample ID: LCSD 880-18336/3-A**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 18336**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 787.0 | | mg/Kg | | 79 | 70 - 130 | 6 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1036 | | mg/Kg | | 104 | 70 - 130 | 7 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 78 | | 70 - 130 |
| o-Terphenyl (Surr) | 82 | | 70 - 130 |

**Lab Sample ID: 880-10735-B-1-F MS**
**Matrix: Solid**
**Analysis Batch: 18343**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 18336**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 822.9 | | mg/Kg | | 82 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 986.8 | | mg/Kg | | 99 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 82 | | 70 - 130 |
| o-Terphenyl (Surr) | 79 | | 70 - 130 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: 880-10735-B-1-G MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 18343** — **Prep Batch: 18336**

| 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 | 819.5 | | mg/Kg | | 82 | 70 - 130 | 0 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 1004 | | mg/Kg | | 101 | 70 - 130 | 2 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *78* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *81* | | *70 - 130* |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-18208/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 18287**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 02/03/22 00:17 | 1 |

**Lab Sample ID: LCS 880-18208/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 18287**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 266.4 | | mg/Kg | | 107 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-18208/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 18287**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 270.3 | | mg/Kg | | 108 | 90 - 110 | 1 | 20 |

**Lab Sample ID: 880-10694-58 MS** — **Client Sample ID: S8 1'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 18287**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 48.8 | | 250 | 323.6 | | mg/Kg | | 110 | 90 - 110 | | |

**Lab Sample ID: 880-10694-58 MSD** — **Client Sample ID: S8 1'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 18287**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 48.8 | | 250 | 281.5 | | mg/Kg | | 93 | 90 - 110 | 14 | 20 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: MB 880-18210/1-A**
**Matrix: Solid**
**Analysis Batch: 18408**

**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 | | | 02/02/22 18:23 | 1 |

**Lab Sample ID: LCS 880-18210/2-A**
**Matrix: Solid**
**Analysis Batch: 18408**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 269.7 | | mg/Kg | | 108 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-18210/3-A**
**Matrix: Solid**
**Analysis Batch: 18408**

**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 | 269.9 | | mg/Kg | | 108 | 90 - 110 | 0 | 20 |

**Lab Sample ID: 880-10694-10 MS**
**Matrix: Solid**
**Analysis Batch: 18408**

**Client Sample ID: PB 3 3'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 210 | | 250 | 473.7 | | mg/Kg | | 105 | 90 - 110 | | |

**Lab Sample ID: 880-10694-10 MSD**
**Matrix: Solid**
**Analysis Batch: 18408**

**Client Sample ID: PB 3 3'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 210 | | 250 | 471.2 | | mg/Kg | | 104 | 90 - 110 | 1 | 20 |

**Lab Sample ID: MB 880-18211/1-A**
**Matrix: Solid**
**Analysis Batch: 18409**

**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 | | | 02/02/22 22:48 | 1 |

**Lab Sample ID: LCS 880-18211/2-A**
**Matrix: Solid**
**Analysis Batch: 18409**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 258.5 | | mg/Kg | | 103 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-18211/3-A**
**Matrix: Solid**
**Analysis Batch: 18409**

**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 | 258.7 | | mg/Kg | | 103 | 90 - 110 | 0 | 20 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: 880-10694-19 MS**
**Matrix: Solid**
**Analysis Batch: 18409**

**Client Sample ID: PB 5 5'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 8.55 | | 248 | 270.2 | | mg/Kg | | 106 | 90 - 110 |

**Lab Sample ID: 880-10694-19 MSD**
**Matrix: Solid**
**Analysis Batch: 18409**

**Client Sample ID: PB 5 5'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 8.55 | | 248 | 266.6 | | mg/Kg | | 104 | 90 - 110 | 1 | 20 |

**Lab Sample ID: 880-10694-29 MS**
**Matrix: Solid**
**Analysis Batch: 18409**

**Client Sample ID: PB 8 1'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 16700 | | 5040 | 21590 | | mg/Kg | | 97 | 90 - 110 |

**Lab Sample ID: 880-10694-29 MSD**
**Matrix: Solid**
**Analysis Batch: 18409**

**Client Sample ID: PB 8 1'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 16700 | | 5040 | 21780 | | mg/Kg | | 101 | 90 - 110 | 1 | 20 |

**Lab Sample ID: MB 880-18212/1-A**
**Matrix: Solid**
**Analysis Batch: 18519**

**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 | | | 02/03/22 11:07 | 1 |

**Lab Sample ID: LCS 880-18212/2-A**
**Matrix: Solid**
**Analysis Batch: 18519**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 256.0 | | mg/Kg | | 102 | 90 - 110 |

**Lab Sample ID: LCSD 880-18212/3-A**
**Matrix: Solid**
**Analysis Batch: 18519**

**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: 880-10694-39 MS**
**Matrix: Solid**
**Analysis Batch: 18519**

**Client Sample ID: PB 10 5'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 244 | F1 | 250 | 531.5 | F1 | mg/Kg | | 115 | 90 - 110 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: 880-10694-39 MSD**
**Matrix: Solid**
**Analysis Batch: 18519**

**Client Sample ID: PB 10 5'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 244 | F1 | 250 | 524.6 | F1 | mg/Kg | | 112 | 90 - 110 | 1 | 20 |

**Lab Sample ID: 880-10694-49 MS**
**Matrix: Solid**
**Analysis Batch: 18519**

**Client Sample ID: S1 12'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1010 | F1 | 2530 | 4007 | F1 | mg/Kg | | 119 | 90 - 110 |

**Lab Sample ID: 880-10694-49 MSD**
**Matrix: Solid**
**Analysis Batch: 18519**

**Client Sample ID: S1 12'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1010 | F1 | 2530 | 3955 | F1 | mg/Kg | | 117 | 90 - 110 | 1 | 20 |

**Lab Sample ID: MB 880-18214/1-A**
**Matrix: Solid**
**Analysis Batch: 18520**

**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 | | | 02/03/22 13:00 | 1 |

**Lab Sample ID: LCS 880-18214/2-A**
**Matrix: Solid**
**Analysis Batch: 18520**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 250 | 254.8 | | mg/Kg | | 102 | 90 - 110 |

**Lab Sample ID: LCSD 880-18214/3-A**
**Matrix: Solid**
**Analysis Batch: 18520**

**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 | 249.1 | | mg/Kg | | 100 | 90 - 110 | 2 | 20 |

**Lab Sample ID: 880-10694-1 MS**
**Matrix: Solid**
**Analysis Batch: 18520**

**Client Sample ID: PB 1 1'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 21.9 | | 252 | 282.3 | | mg/Kg | | 103 | 90 - 110 |

**Lab Sample ID: 880-10694-1 MSD**
**Matrix: Solid**
**Analysis Batch: 18520**

**Client Sample ID: PB 1 1'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 21.9 | | 252 | 277.2 | | mg/Kg | | 101 | 90 - 110 | 2 | 20 |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## GC VOA

### Analysis Batch: 17866

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-61 | S8 10' | Total/NA | Solid | 8021B | 18045 |
| 880-10694-62 | S9 1' | Total/NA | Solid | 8021B | 18045 |
| 880-10694-63 | S9 3' | Total/NA | Solid | 8021B | 18045 |
| 880-10694-64 | S9 5' | Total/NA | Solid | 8021B | 18045 |
| 880-10694-65 | S9 10' | Total/NA | Solid | 8021B | 18045 |
| MB 880-17925/5-A | Method Blank | Total/NA | Solid | 8021B | 17925 |
| MB 880-18045/5-A | Method Blank | Total/NA | Solid | 8021B | 18045 |
| LCS 880-18045/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 18045 |
| LCSD 880-18045/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 18045 |
| 880-10665-A-1-A MS | Matrix Spike | Total/NA | Solid | 8021B | 18045 |
| 880-10665-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 18045 |

### Prep Batch: 17925

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-17925/5-A | Method Blank | Total/NA | Solid | 5035 | |

### Prep Batch: 18031

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Total/NA | Solid | 5035 | |
| 880-10694-2 | PB 1 3' | Total/NA | Solid | 5035 | |
| 880-10694-3 | PB 1 5' | Total/NA | Solid | 5035 | |
| 880-10694-4 | PB 1 9' | Total/NA | Solid | 5035 | |
| 880-10694-5 | PB 2 1' | Total/NA | Solid | 5035 | |
| 880-10694-6 | PB 2 3' | Total/NA | Solid | 5035 | |
| 880-10694-7 | PB 2 5' | Total/NA | Solid | 5035 | |
| 880-10694-8 | PB 2 8' | Total/NA | Solid | 5035 | |
| 880-10694-9 | PB 3 1' | Total/NA | Solid | 5035 | |
| 880-10694-10 | PB 3 3' | Total/NA | Solid | 5035 | |
| 880-10694-11 | PB 3 5' | Total/NA | Solid | 5035 | |
| 880-10694-12 | PB 3 9' | Total/NA | Solid | 5035 | |
| 880-10694-13 | PB 4 1' | Total/NA | Solid | 5035 | |
| 880-10694-14 | PB 4 3' | Total/NA | Solid | 5035 | |
| 880-10694-15 | PB 4 5' | Total/NA | Solid | 5035 | |
| 880-10694-16 | PB 4 10' | Total/NA | Solid | 5035 | |
| 880-10694-17 | PB 5 1' | Total/NA | Solid | 5035 | |
| 880-10694-18 | PB 5 3' | Total/NA | Solid | 5035 | |
| 880-10694-19 | PB 5 5' | Total/NA | Solid | 5035 | |
| 880-10694-20 | PB 5 10' | Total/NA | Solid | 5035 | |
| MB 880-18031/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-18031/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-18031/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-10694-1 MS | PB 1 1' | Total/NA | Solid | 5035 | |
| 880-10694-1 MSD | PB 1 1' | Total/NA | Solid | 5035 | |

### Prep Batch: 18038

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-21 | PB 6 1' | Total/NA | Solid | 5035 | |
| 880-10694-22 | PB 6 3' | Total/NA | Solid | 5035 | |
| 880-10694-23 | PB 6 5' | Total/NA | Solid | 5035 | |
| 880-10694-24 | PB 6 10' | Total/NA | Solid | 5035 | |
| 880-10694-25 | PB 7 1' | Total/NA | Solid | 5035 | |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## GC VOA (Continued)

### Prep Batch: 18038 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-26 | PB 7 3' | Total/NA | Solid | 5035 | |
| 880-10694-27 | PB 7 5' | Total/NA | Solid | 5035 | |
| 880-10694-28 | PB 7 10' | Total/NA | Solid | 5035 | |
| 880-10694-29 | PB 8 1' | Total/NA | Solid | 5035 | |
| 880-10694-30 | PB 8 3' | Total/NA | Solid | 5035 | |
| 880-10694-31 | PB 8 5' | Total/NA | Solid | 5035 | |
| 880-10694-32 | PB 8 10' | Total/NA | Solid | 5035 | |
| 880-10694-33 | PB 9 1' | Total/NA | Solid | 5035 | |
| 880-10694-34 | PB 9 3' | Total/NA | Solid | 5035 | |
| 880-10694-35 | PB 9 5' | Total/NA | Solid | 5035 | |
| 880-10694-36 | PB 9 10' | Total/NA | Solid | 5035 | |
| 880-10694-37 | PB 10 1' | Total/NA | Solid | 5035 | |
| 880-10694-38 | PB 10 3' | Total/NA | Solid | 5035 | |
| 880-10694-39 | PB 10 5' | Total/NA | Solid | 5035 | |
| 880-10694-40 | PB 10 10' | Total/NA | Solid | 5035 | |
| MB 880-18038/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-18038/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-18038/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-10694-21 MS | PB 6 1' | Total/NA | Solid | 5035 | |
| 880-10694-21 MSD | PB 6 1' | Total/NA | Solid | 5035 | |

### Prep Batch: 18039

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-45 | S1 1' | Total/NA | Solid | 5035 | |
| 880-10694-46 | S1 3' | Total/NA | Solid | 5035 | |
| 880-10694-47 | S1 5' | Total/NA | Solid | 5035 | |
| 880-10694-48 | S1 9' | Total/NA | Solid | 5035 | |
| 880-10694-49 | S1 12' | Total/NA | Solid | 5035 | |
| 880-10694-50 | S2 1' | Total/NA | Solid | 5035 | |
| MB 880-18039/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-18039/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-18039/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-10694-A-41-A MS | 880-10694-A-41-A MS | Total/NA | Solid | 5035 | |
| 880-10694-A-41-B MSD | 880-10694-A-41-B MSD | Total/NA | Solid | 5035 | |

### Analysis Batch: 18042

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-2 | PB 1 3' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-3 | PB 1 5' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-4 | PB 1 9' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-5 | PB 2 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-6 | PB 2 3' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-7 | PB 2 5' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-8 | PB 2 8' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-9 | PB 3 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-10 | PB 3 3' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-11 | PB 3 5' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-12 | PB 3 9' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-13 | PB 4 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-14 | PB 4 3' | Total/NA | Solid | 8021B | 18031 |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## GC VOA (Continued)

### Analysis Batch: 18042 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-15 | PB 4 5' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-16 | PB 4 10' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-17 | PB 5 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-18 | PB 5 3' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-19 | PB 5 5' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-20 | PB 5 10' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-21 | PB 6 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-22 | PB 6 3' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-23 | PB 6 5' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-24 | PB 6 10' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-25 | PB 7 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-26 | PB 7 3' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-27 | PB 7 5' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-28 | PB 7 10' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-29 | PB 8 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-30 | PB 8 3' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-31 | PB 8 5' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-32 | PB 8 10' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-33 | PB 9 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-34 | PB 9 3' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-35 | PB 9 5' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-36 | PB 9 10' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-37 | PB 10 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-38 | PB 10 3' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-39 | PB 10 5' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-40 | PB 10 10' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-45 | S1 1' | Total/NA | Solid | 8021B | 18039 |
| 880-10694-46 | S1 3' | Total/NA | Solid | 8021B | 18039 |
| 880-10694-47 | S1 5' | Total/NA | Solid | 8021B | 18039 |
| 880-10694-48 | S1 9' | Total/NA | Solid | 8021B | 18039 |
| 880-10694-49 | S1 12' | Total/NA | Solid | 8021B | 18039 |
| 880-10694-50 | S2 1' | Total/NA | Solid | 8021B | 18039 |
| MB 880-18031/5-A | Method Blank | Total/NA | Solid | 8021B | 18031 |
| MB 880-18038/5-A | Method Blank | Total/NA | Solid | 8021B | 18038 |
| MB 880-18039/5-A | Method Blank | Total/NA | Solid | 8021B | 18039 |
| LCS 880-18031/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 18031 |
| LCS 880-18038/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 18038 |
| LCS 880-18039/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 18039 |
| LCSD 880-18031/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 18031 |
| LCSD 880-18038/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 18038 |
| LCSD 880-18039/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 18039 |
| 880-10694-1 MS | PB 1 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-1 MSD | PB 1 1' | Total/NA | Solid | 8021B | 18031 |
| 880-10694-21 MS | PB 6 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-21 MSD | PB 6 1' | Total/NA | Solid | 8021B | 18038 |
| 880-10694-A-41-A MS | 880-10694-A-41-A MS | Total/NA | Solid | 8021B | 18039 |
| 880-10694-A-41-B MSD | 880-10694-A-41-B MSD | Total/NA | Solid | 8021B | 18039 |

### Prep Batch: 18045

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-61 | S8 10' | Total/NA | Solid | 5035 | |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## GC VOA (Continued)

### Prep Batch: 18045 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-62 | S9 1' | Total/NA | Solid | 5035 | |
| 880-10694-63 | S9 3' | Total/NA | Solid | 5035 | |
| 880-10694-64 | S9 5' | Total/NA | Solid | 5035 | |
| 880-10694-65 | S9 10' | Total/NA | Solid | 5035 | |
| MB 880-18045/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-18045/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-18045/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-10665-A-1-A MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-10665-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

### Prep Batch: 18099

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-51 | S2 3' | Total/NA | Solid | 5035 | |
| 880-10694-52 | S2 5' | Total/NA | Solid | 5035 | |
| 880-10694-53 | S2 9' | Total/NA | Solid | 5035 | |
| 880-10694-54 | S7 1' | Total/NA | Solid | 5035 | |
| 880-10694-55 | S7 3' | Total/NA | Solid | 5035 | |
| 880-10694-56 | S7 5' | Total/NA | Solid | 5035 | |
| 880-10694-57 | S7 10' | Total/NA | Solid | 5035 | |
| 880-10694-58 | S8 1' | Total/NA | Solid | 5035 | |
| 880-10694-59 | S8 3' | Total/NA | Solid | 5035 | |
| 880-10694-60 | S8 5' | Total/NA | Solid | 5035 | |
| MB 880-18099/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-18099/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-18099/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-10694-51 MS | S2 3' | Total/NA | Solid | 5035 | |
| 880-10694-51 MSD | S2 3' | Total/NA | Solid | 5035 | |

### Analysis Batch: 18101

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-51 | S2 3' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-52 | S2 5' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-53 | S2 9' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-54 | S7 1' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-55 | S7 3' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-56 | S7 5' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-57 | S7 10' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-58 | S8 1' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-59 | S8 3' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-60 | S8 5' | Total/NA | Solid | 8021B | 18099 |
| MB 880-18099/5-A | Method Blank | Total/NA | Solid | 8021B | 18099 |
| LCS 880-18099/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 18099 |
| LCSD 880-18099/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 18099 |
| 880-10694-51 MS | S2 3' | Total/NA | Solid | 8021B | 18099 |
| 880-10694-51 MSD | S2 3' | Total/NA | Solid | 8021B | 18099 |

### Analysis Batch: 18149

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-2 | PB 1 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-3 | PB 1 5' | Total/NA | Solid | Total BTEX | |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## GC VOA (Continued)

### Analysis Batch: 18149 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-4 | PB 1 9' | Total/NA | Solid | Total BTEX | |
| 880-10694-5 | PB 2 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-6 | PB 2 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-7 | PB 2 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-8 | PB 2 8' | Total/NA | Solid | Total BTEX | |
| 880-10694-9 | PB 3 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-10 | PB 3 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-11 | PB 3 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-12 | PB 3 9' | Total/NA | Solid | Total BTEX | |
| 880-10694-13 | PB 4 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-14 | PB 4 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-15 | PB 4 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-16 | PB 4 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-17 | PB 5 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-18 | PB 5 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-19 | PB 5 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-20 | PB 5 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-21 | PB 6 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-22 | PB 6 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-23 | PB 6 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-24 | PB 6 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-25 | PB 7 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-26 | PB 7 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-27 | PB 7 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-28 | PB 7 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-29 | PB 8 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-30 | PB 8 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-31 | PB 8 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-32 | PB 8 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-33 | PB 9 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-34 | PB 9 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-35 | PB 9 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-36 | PB 9 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-37 | PB 10 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-38 | PB 10 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-39 | PB 10 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-40 | PB 10 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-45 | S1 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-46 | S1 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-47 | S1 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-48 | S1 9' | Total/NA | Solid | Total BTEX | |
| 880-10694-49 | S1 12' | Total/NA | Solid | Total BTEX | |
| 880-10694-50 | S2 1' | Total/NA | Solid | Total BTEX | |

### Analysis Batch: 18428

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-51 | S2 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-52 | S2 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-53 | S2 9' | Total/NA | Solid | Total BTEX | |
| 880-10694-54 | S7 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-55 | S7 3' | Total/NA | Solid | Total BTEX | |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## GC VOA (Continued)

### Analysis Batch: 18428 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-56 | S7 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-57 | S7 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-58 | S8 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-59 | S8 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-60 | S8 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-61 | S8 10' | Total/NA | Solid | Total BTEX | |
| 880-10694-62 | S9 1' | Total/NA | Solid | Total BTEX | |
| 880-10694-63 | S9 3' | Total/NA | Solid | Total BTEX | |
| 880-10694-64 | S9 5' | Total/NA | Solid | Total BTEX | |
| 880-10694-65 | S9 10' | Total/NA | Solid | Total BTEX | |

## GC Semi VOA

### Prep Batch: 18166

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-45 | S1 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-46 | S1 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-47 | S1 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-48 | S1 9' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-49 | S1 12' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-50 | S2 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-51 | S2 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-52 | S2 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-53 | S2 9' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-54 | S7 1' | Total/NA | Solid | 8015NM Prep | |
| MB 880-18166/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-18166/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-18166/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-10694-A-41-E MS | 880-10694-A-41-E MS | Total/NA | Solid | 8015NM Prep | |
| 880-10694-A-41-F MSD | 880-10694-A-41-F MSD | Total/NA | Solid | 8015NM Prep | |

### Prep Batch: 18188

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-2 | PB 1 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-3 | PB 1 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-4 | PB 1 9' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-5 | PB 2 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-6 | PB 2 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-7 | PB 2 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-8 | PB 2 8' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-9 | PB 3 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-10 | PB 3 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-11 | PB 3 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-12 | PB 3 9' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-13 | PB 4 1' | Total/NA | Solid | 8015NM Prep | |
| MB 880-18188/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-18188/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-18188/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-10694-1 MS | PB 1 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-1 MSD | PB 1 1' | Total/NA | Solid | 8015NM Prep | |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## GC Semi VOA

### Prep Batch: 18189

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-21 | PB 6 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-22 | PB 6 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-23 | PB 6 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-24 | PB 6 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-25 | PB 7 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-26 | PB 7 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-27 | PB 7 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-28 | PB 7 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-29 | PB 8 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-30 | PB 8 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-31 | PB 8 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-32 | PB 8 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-33 | PB 9 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-34 | PB 9 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-35 | PB 9 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-36 | PB 9 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-37 | PB 10 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-38 | PB 10 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-39 | PB 10 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-40 | PB 10 10' | Total/NA | Solid | 8015NM Prep | |
| MB 880-18189/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-18189/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-18189/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-10694-21 MS | PB 6 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-21 MSD | PB 6 1' | Total/NA | Solid | 8015NM Prep | |

### Prep Batch: 18190

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-61 | S8 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-62 | S9 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-63 | S9 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-64 | S9 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-65 | S9 10' | Total/NA | Solid | 8015NM Prep | |
| MB 880-18190/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-18190/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-18190/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-10698-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-10698-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

### Prep Batch: 18336

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-14 | PB 4 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-15 | PB 4 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-16 | PB 4 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-17 | PB 5 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-18 | PB 5 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-19 | PB 5 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-20 | PB 5 10' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-55 | S7 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-56 | S7 5' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-57 | S7 10' | Total/NA | Solid | 8015NM Prep | |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## GC Semi VOA (Continued)

### Prep Batch: 18336 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-58 | S8 1' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-59 | S8 3' | Total/NA | Solid | 8015NM Prep | |
| 880-10694-60 | S8 5' | Total/NA | Solid | 8015NM Prep | |
| MB 880-18336/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-18336/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-18336/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-10735-B-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-10735-B-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 18337

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-2 | PB 1 3' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-3 | PB 1 5' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-4 | PB 1 9' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-5 | PB 2 1' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-6 | PB 2 3' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-7 | PB 2 5' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-8 | PB 2 8' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-9 | PB 3 1' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-10 | PB 3 3' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-11 | PB 3 5' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-12 | PB 3 9' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-13 | PB 4 1' | Total/NA | Solid | 8015B NM | 18188 |
| MB 880-18188/1-A | Method Blank | Total/NA | Solid | 8015B NM | 18188 |
| LCS 880-18188/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 18188 |
| LCSD 880-18188/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-1 MS | PB 1 1' | Total/NA | Solid | 8015B NM | 18188 |
| 880-10694-1 MSD | PB 1 1' | Total/NA | Solid | 8015B NM | 18188 |

### Analysis Batch: 18339

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-61 | S8 10' | Total/NA | Solid | 8015B NM | 18190 |
| 880-10694-62 | S9 1' | Total/NA | Solid | 8015B NM | 18190 |
| 880-10694-63 | S9 3' | Total/NA | Solid | 8015B NM | 18190 |
| 880-10694-64 | S9 5' | Total/NA | Solid | 8015B NM | 18190 |
| 880-10694-65 | S9 10' | Total/NA | Solid | 8015B NM | 18190 |
| MB 880-18190/1-A | Method Blank | Total/NA | Solid | 8015B NM | 18190 |
| LCS 880-18190/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 18190 |
| LCSD 880-18190/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 18190 |
| 880-10698-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 18190 |
| 880-10698-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 18190 |

### Analysis Batch: 18343

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-14 | PB 4 3' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-15 | PB 4 5' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-16 | PB 4 10' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-17 | PB 5 1' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-18 | PB 5 3' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-19 | PB 5 5' | Total/NA | Solid | 8015B NM | 18336 |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## GC Semi VOA (Continued)

### Analysis Batch: 18343 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-20 | PB 5 10' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-45 | S1 1' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-46 | S1 3' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-47 | S1 5' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-48 | S1 9' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-49 | S1 12' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-50 | S2 1' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-51 | S2 3' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-52 | S2 5' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-53 | S2 9' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-54 | S7 1' | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-55 | S7 3' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-56 | S7 5' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-57 | S7 10' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-58 | S8 1' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-59 | S8 3' | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-60 | S8 5' | Total/NA | Solid | 8015B NM | 18336 |
| MB 880-18166/1-A | Method Blank | Total/NA | Solid | 8015B NM | 18166 |
| MB 880-18336/1-A | Method Blank | Total/NA | Solid | 8015B NM | 18336 |
| LCS 880-18166/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 18166 |
| LCS 880-18336/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 18336 |
| LCSD 880-18166/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 18166 |
| LCSD 880-18336/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 18336 |
| 880-10694-A-41-E MS | 880-10694-A-41-E MS | Total/NA | Solid | 8015B NM | 18166 |
| 880-10694-A-41-F MSD | 880-10694-A-41-F MSD | Total/NA | Solid | 8015B NM | 18166 |
| 880-10735-B-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 18336 |
| 880-10735-B-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 18336 |

### Analysis Batch: 18413

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-2 | PB 1 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-3 | PB 1 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-4 | PB 1 9' | Total/NA | Solid | 8015 NM | |
| 880-10694-5 | PB 2 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-6 | PB 2 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-7 | PB 2 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-8 | PB 2 8' | Total/NA | Solid | 8015 NM | |
| 880-10694-9 | PB 3 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-10 | PB 3 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-11 | PB 3 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-12 | PB 3 9' | Total/NA | Solid | 8015 NM | |
| 880-10694-13 | PB 4 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-14 | PB 4 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-15 | PB 4 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-16 | PB 4 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-17 | PB 5 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-18 | PB 5 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-19 | PB 5 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-20 | PB 5 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-21 | PB 6 1' | Total/NA | Solid | 8015 NM | |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## GC Semi VOA (Continued)

### Analysis Batch: 18413 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-22 | PB 6 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-23 | PB 6 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-24 | PB 6 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-25 | PB 7 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-26 | PB 7 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-27 | PB 7 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-28 | PB 7 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-29 | PB 8 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-30 | PB 8 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-31 | PB 8 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-32 | PB 8 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-33 | PB 9 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-34 | PB 9 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-35 | PB 9 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-36 | PB 9 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-37 | PB 10 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-38 | PB 10 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-39 | PB 10 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-40 | PB 10 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-45 | S1 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-46 | S1 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-47 | S1 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-48 | S1 9' | Total/NA | Solid | 8015 NM | |
| 880-10694-49 | S1 12' | Total/NA | Solid | 8015 NM | |
| 880-10694-50 | S2 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-51 | S2 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-52 | S2 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-53 | S2 9' | Total/NA | Solid | 8015 NM | |
| 880-10694-54 | S7 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-55 | S7 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-56 | S7 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-57 | S7 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-58 | S8 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-59 | S8 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-60 | S8 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-61 | S8 10' | Total/NA | Solid | 8015 NM | |
| 880-10694-62 | S9 1' | Total/NA | Solid | 8015 NM | |
| 880-10694-63 | S9 3' | Total/NA | Solid | 8015 NM | |
| 880-10694-64 | S9 5' | Total/NA | Solid | 8015 NM | |
| 880-10694-65 | S9 10' | Total/NA | Solid | 8015 NM | |

### Analysis Batch: 18455

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-21 | PB 6 1' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-22 | PB 6 3' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-23 | PB 6 5' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-24 | PB 6 10' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-25 | PB 7 1' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-26 | PB 7 3' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-27 | PB 7 5' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-28 | PB 7 10' | Total/NA | Solid | 8015B NM | 18189 |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## GC Semi VOA (Continued)

### Analysis Batch: 18455 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-29 | PB 8 1' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-30 | PB 8 3' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-31 | PB 8 5' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-32 | PB 8 10' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-33 | PB 9 1' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-34 | PB 9 3' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-35 | PB 9 5' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-36 | PB 9 10' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-37 | PB 10 1' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-38 | PB 10 3' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-39 | PB 10 5' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-40 | PB 10 10' | Total/NA | Solid | 8015B NM | 18189 |
| MB 880-18189/1-A | Method Blank | Total/NA | Solid | 8015B NM | 18189 |
| LCS 880-18189/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 18189 |
| LCSD 880-18189/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-21 MS | PB 6 1' | Total/NA | Solid | 8015B NM | 18189 |
| 880-10694-21 MSD | PB 6 1' | Total/NA | Solid | 8015B NM | 18189 |

## HPLC/IC

### Leach Batch: 18208

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-58 | S8 1' | Soluble | Solid | DI Leach | |
| 880-10694-59 | S8 3' | Soluble | Solid | DI Leach | |
| 880-10694-60 | S8 5' | Soluble | Solid | DI Leach | |
| 880-10694-61 | S8 10' | Soluble | Solid | DI Leach | |
| 880-10694-62 | S9 1' | Soluble | Solid | DI Leach | |
| 880-10694-63 | S9 3' | Soluble | Solid | DI Leach | |
| 880-10694-64 | S9 5' | Soluble | Solid | DI Leach | |
| 880-10694-65 | S9 10' | Soluble | Solid | DI Leach | |
| MB 880-18208/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-18208/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-18208/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-10694-58 MS | S8 1' | Soluble | Solid | DI Leach | |
| 880-10694-58 MSD | S8 1' | Soluble | Solid | DI Leach | |

### Leach Batch: 18210

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-10 | PB 3 3' | Soluble | Solid | DI Leach | |
| 880-10694-11 | PB 3 5' | Soluble | Solid | DI Leach | |
| 880-10694-12 | PB 3 9' | Soluble | Solid | DI Leach | |
| 880-10694-13 | PB 4 1' | Soluble | Solid | DI Leach | |
| 880-10694-14 | PB 4 3' | Soluble | Solid | DI Leach | |
| 880-10694-15 | PB 4 5' | Soluble | Solid | DI Leach | |
| 880-10694-16 | PB 4 10' | Soluble | Solid | DI Leach | |
| 880-10694-17 | PB 5 1' | Soluble | Solid | DI Leach | |
| 880-10694-18 | PB 5 3' | Soluble | Solid | DI Leach | |
| MB 880-18210/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-18210/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-18210/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-10694-10 MS | PB 3 3' | Soluble | Solid | DI Leach | |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Leach Batch: 18210 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-10 MSD | PB 3 3' | Soluble | Solid | DI Leach | |

### Leach Batch: 18211

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-19 | PB 5 5' | Soluble | Solid | DI Leach | |
| 880-10694-20 | PB 5 10' | Soluble | Solid | DI Leach | |
| 880-10694-21 | PB 6 1' | Soluble | Solid | DI Leach | |
| 880-10694-22 | PB 6 3' | Soluble | Solid | DI Leach | |
| 880-10694-23 | PB 6 5' | Soluble | Solid | DI Leach | |
| 880-10694-24 | PB 6 10' | Soluble | Solid | DI Leach | |
| 880-10694-25 | PB 7 1' | Soluble | Solid | DI Leach | |
| 880-10694-26 | PB 7 3' | Soluble | Solid | DI Leach | |
| 880-10694-27 | PB 7 5' | Soluble | Solid | DI Leach | |
| 880-10694-28 | PB 7 10' | Soluble | Solid | DI Leach | |
| 880-10694-29 | PB 8 1' | Soluble | Solid | DI Leach | |
| 880-10694-30 | PB 8 3' | Soluble | Solid | DI Leach | |
| 880-10694-31 | PB 8 5' | Soluble | Solid | DI Leach | |
| 880-10694-32 | PB 8 10' | Soluble | Solid | DI Leach | |
| 880-10694-33 | PB 9 1' | Soluble | Solid | DI Leach | |
| 880-10694-34 | PB 9 3' | Soluble | Solid | DI Leach | |
| 880-10694-35 | PB 9 5' | Soluble | Solid | DI Leach | |
| 880-10694-36 | PB 9 10' | Soluble | Solid | DI Leach | |
| 880-10694-37 | PB 10 1' | Soluble | Solid | DI Leach | |
| 880-10694-38 | PB 10 3' | Soluble | Solid | DI Leach | |
| MB 880-18211/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-18211/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-18211/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-10694-19 MS | PB 5 5' | Soluble | Solid | DI Leach | |
| 880-10694-19 MSD | PB 5 5' | Soluble | Solid | DI Leach | |
| 880-10694-29 MS | PB 8 1' | Soluble | Solid | DI Leach | |
| 880-10694-29 MSD | PB 8 1' | Soluble | Solid | DI Leach | |

### Leach Batch: 18212

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-39 | PB 10 5' | Soluble | Solid | DI Leach | |
| 880-10694-40 | PB 10 10' | Soluble | Solid | DI Leach | |
| 880-10694-45 | S1 1' | Soluble | Solid | DI Leach | |
| 880-10694-46 | S1 3' | Soluble | Solid | DI Leach | |
| 880-10694-47 | S1 5' | Soluble | Solid | DI Leach | |
| 880-10694-48 | S1 9' | Soluble | Solid | DI Leach | |
| 880-10694-49 | S1 12' | Soluble | Solid | DI Leach | |
| 880-10694-50 | S2 1' | Soluble | Solid | DI Leach | |
| 880-10694-51 | S2 3' | Soluble | Solid | DI Leach | |
| 880-10694-52 | S2 5' | Soluble | Solid | DI Leach | |
| 880-10694-53 | S2 9' | Soluble | Solid | DI Leach | |
| 880-10694-54 | S7 1' | Soluble | Solid | DI Leach | |
| 880-10694-55 | S7 3' | Soluble | Solid | DI Leach | |
| 880-10694-56 | S7 5' | Soluble | Solid | DI Leach | |
| 880-10694-57 | S7 10' | Soluble | Solid | DI Leach | |
| MB 880-18212/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-18212/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Leach Batch: 18212 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCSD 880-18212/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-10694-39 MS | PB 10 5' | Soluble | Solid | DI Leach | |
| 880-10694-39 MSD | PB 10 5' | Soluble | Solid | DI Leach | |
| 880-10694-49 MS | S1 12' | Soluble | Solid | DI Leach | |
| 880-10694-49 MSD | S1 12' | Soluble | Solid | DI Leach | |

### Leach Batch: 18214

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Soluble | Solid | DI Leach | |
| 880-10694-2 | PB 1 3' | Soluble | Solid | DI Leach | |
| 880-10694-3 | PB 1 5' | Soluble | Solid | DI Leach | |
| 880-10694-4 | PB 1 9' | Soluble | Solid | DI Leach | |
| 880-10694-5 | PB 2 1' | Soluble | Solid | DI Leach | |
| 880-10694-6 | PB 2 3' | Soluble | Solid | DI Leach | |
| 880-10694-7 | PB 2 5' | Soluble | Solid | DI Leach | |
| 880-10694-8 | PB 2 8' | Soluble | Solid | DI Leach | |
| 880-10694-9 | PB 3 1' | Soluble | Solid | DI Leach | |
| MB 880-18214/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-18214/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-18214/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-10694-1 MS | PB 1 1' | Soluble | Solid | DI Leach | |
| 880-10694-1 MSD | PB 1 1' | Soluble | Solid | DI Leach | |

### Analysis Batch: 18287

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-58 | S8 1' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-59 | S8 3' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-60 | S8 5' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-61 | S8 10' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-62 | S9 1' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-63 | S9 3' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-64 | S9 5' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-65 | S9 10' | Soluble | Solid | 300.0 | 18208 |
| MB 880-18208/1-A | Method Blank | Soluble | Solid | 300.0 | 18208 |
| LCS 880-18208/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 18208 |
| LCSD 880-18208/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 18208 |
| 880-10694-58 MS | S8 1' | Soluble | Solid | 300.0 | 18208 |
| 880-10694-58 MSD | S8 1' | Soluble | Solid | 300.0 | 18208 |

### Analysis Batch: 18408

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-10 | PB 3 3' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-11 | PB 3 5' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-12 | PB 3 9' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-13 | PB 4 1' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-14 | PB 4 3' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-15 | PB 4 5' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-16 | PB 4 10' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-17 | PB 5 1' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-18 | PB 5 3' | Soluble | Solid | 300.0 | 18210 |
| MB 880-18210/1-A | Method Blank | Soluble | Solid | 300.0 | 18210 |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Analysis Batch: 18408 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 880-18210/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 18210 |
| LCSD 880-18210/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 18210 |
| 880-10694-10 MS | PB 3 3' | Soluble | Solid | 300.0 | 18210 |
| 880-10694-10 MSD | PB 3 3' | Soluble | Solid | 300.0 | 18210 |

### Analysis Batch: 18409

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-19 | PB 5 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-20 | PB 5 10' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-21 | PB 6 1' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-22 | PB 6 3' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-23 | PB 6 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-24 | PB 6 10' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-25 | PB 7 1' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-26 | PB 7 3' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-27 | PB 7 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-28 | PB 7 10' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-29 | PB 8 1' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-30 | PB 8 3' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-31 | PB 8 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-32 | PB 8 10' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-33 | PB 9 1' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-34 | PB 9 3' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-35 | PB 9 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-36 | PB 9 10' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-37 | PB 10 1' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-38 | PB 10 3' | Soluble | Solid | 300.0 | 18211 |
| MB 880-18211/1-A | Method Blank | Soluble | Solid | 300.0 | 18211 |
| LCS 880-18211/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 18211 |
| LCSD 880-18211/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 18211 |
| 880-10694-19 MS | PB 5 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-19 MSD | PB 5 5' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-29 MS | PB 8 1' | Soluble | Solid | 300.0 | 18211 |
| 880-10694-29 MSD | PB 8 1' | Soluble | Solid | 300.0 | 18211 |

### Analysis Batch: 18519

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-39 | PB 10 5' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-40 | PB 10 10' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-45 | S1 1' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-46 | S1 3' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-47 | S1 5' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-48 | S1 9' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-49 | S1 12' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-50 | S2 1' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-51 | S2 3' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-52 | S2 5' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-53 | S2 9' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-54 | S7 1' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-55 | S7 3' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-56 | S7 5' | Soluble | Solid | 300.0 | 18212 |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Analysis Batch: 18519 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-57 | S7 10' | Soluble | Solid | 300.0 | 18212 |
| MB 880-18212/1-A | Method Blank | Soluble | Solid | 300.0 | 18212 |
| LCS 880-18212/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 18212 |
| LCSD 880-18212/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 18212 |
| 880-10694-39 MS | PB 10 5' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-39 MSD | PB 10 5' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-49 MS | S1 12' | Soluble | Solid | 300.0 | 18212 |
| 880-10694-49 MSD | S1 12' | Soluble | Solid | 300.0 | 18212 |

### Analysis Batch: 18520

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-2 | PB 1 3' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-3 | PB 1 5' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-4 | PB 1 9' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-5 | PB 2 1' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-6 | PB 2 3' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-7 | PB 2 5' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-8 | PB 2 8' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-9 | PB 3 1' | Soluble | Solid | 300.0 | 18214 |
| MB 880-18214/1-A | Method Blank | Soluble | Solid | 300.0 | 18214 |
| LCS 880-18214/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 18214 |
| LCSD 880-18214/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 18214 |
| 880-10694-1 MS | PB 1 1' | Soluble | Solid | 300.0 | 18214 |
| 880-10694-1 MSD | PB 1 1' | Soluble | Solid | 300.0 | 18214 |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 1 1'

**Date Collected: 01/24/22 12:12**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-1

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 15:36 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 12:44 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18520 | 02/03/22 13:35 | CH | XEN MID |

## Client Sample ID: PB 1 3'

**Date Collected: 01/24/22 12:13**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-2

**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 | | | 4.98 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 15:56 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 16:33 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18520 | 02/03/22 15:12 | CH | XEN MID |

## Client Sample ID: PB 1 5'

**Date Collected: 01/24/22 12:14**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-3

**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 16:17 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 16:55 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18520 | 02/04/22 12:16 | CH | XEN MID |

## Client Sample ID: PB 1 9'

**Date Collected: 01/24/22 12:15**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-4

**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 | | | 5.03 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 16:37 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 1 9'
**Date Collected: 01/24/22 12:15**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-4**
**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 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 17:38 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18520 | 02/04/22 12:28 | CH | XEN MID |

## Client Sample ID: PB 2 1'
**Date Collected: 01/24/22 13:15**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-5**
**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 | | | 5.04 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 16:58 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 18:00 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18520 | 02/04/22 12:40 | CH | XEN MID |

## Client Sample ID: PB 2 3'
**Date Collected: 01/24/22 13:16**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-6**
**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 17:18 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 18:22 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18520 | 02/03/22 16:23 | CH | XEN MID |

## Client Sample ID: PB 2 5'
**Date Collected: 01/24/22 13:17**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-7**
**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 17:38 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 18:43 | AJ | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 2 5'
**Date Collected: 01/24/22 13:17**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-7**
**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 | | | 4.95 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18520 | 02/04/22 12:52 | CH | XEN MID |

## Client Sample ID: PB 2 8'
**Date Collected: 01/24/22 13:18**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-8**
**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 | | | 4.99 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 17:59 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 19:06 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18520 | 02/03/22 16:46 | CH | XEN MID |

## Client Sample ID: PB 3 1'
**Date Collected: 01/24/22 13:45**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-9**
**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 18:19 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 19:27 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18214 | 01/31/22 18:49 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18520 | 02/03/22 16:58 | CH | XEN MID |

## Client Sample ID: PB 3 3'
**Date Collected: 01/24/22 13:46**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-10**
**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 18:40 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 19:49 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 18:46 | SMC | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 3 5'
**Date Collected: 01/24/22 13:47**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-11
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 20:30 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 20:11 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 19:09 | SMC | XEN MID |

## Client Sample ID: PB 3 9'
**Date Collected: 01/24/22 13:48**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-12
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 20:50 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 20:33 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 19:16 | SMC | XEN MID |

## Client Sample ID: PB 4 1'
**Date Collected: 01/26/22 09:00**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-13
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 21:11 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18188 | 01/31/22 14:58 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18337 | 02/02/22 20:54 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 19:24 | SMC | XEN MID |

## Client Sample ID: PB 4 3'
**Date Collected: 01/26/22 09:01**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-14
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 21:31 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |

Eurofins Midland

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 4 3'
**Date Collected: 01/26/22 09:01**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-14**
**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 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 01:34 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 19:31 | SMC | XEN MID |

## Client Sample ID: PB 4 5'
**Date Collected: 01/26/22 09:02**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-15**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 21:52 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 01:55 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18408 | 02/02/22 19:54 | SMC | XEN MID |

## Client Sample ID: PB 4 10'
**Date Collected: 01/26/22 09:02**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-16**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 22:12 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 02:16 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18408 | 02/02/22 20:02 | SMC | XEN MID |

## Client Sample ID: PB 5 1'
**Date Collected: 01/26/22 09:38**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-17**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 22:33 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 02:57 | AJ | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 5 1'
**Date Collected: 01/26/22 09:38**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-17**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 20:09 | SMC | XEN MID |

## Client Sample ID: PB 5 3'
**Date Collected: 01/26/22 09:39**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-18**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 22:53 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 03:18 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18210 | 01/31/22 18:41 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18408 | 02/02/22 20:17 | SMC | XEN MID |

## Client Sample ID: PB 5 5'
**Date Collected: 01/26/22 09:40**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-19**
**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 23:14 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 03:38 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/02/22 23:10 | SMC | XEN MID |

## Client Sample ID: PB 5 10'
**Date Collected: 01/26/22 09:44**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-20**
**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 | 18031 | 01/28/22 10:53 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/28/22 23:34 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 03:58 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/02/22 23:33 | SMC | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 6 1'

**Lab Sample ID: 880-10694-21**
**Matrix: Solid**
**Date Collected: 01/26/22 11:24**
**Date Received: 01/28/22 10:03**

| 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 03:13 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 10:39 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18409 | 02/02/22 23:41 | SMC | XEN MID |

## Client Sample ID: PB 6 3'

**Lab Sample ID: 880-10694-22**
**Matrix: Solid**
**Date Collected: 01/26/22 11:25**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 03:33 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 11:45 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/02/22 23:48 | SMC | XEN MID |

## Client Sample ID: PB 6 5'

**Lab Sample ID: 880-10694-23**
**Matrix: Solid**
**Date Collected: 01/26/22 11:26**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 03:54 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 12:07 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/02/22 23:56 | SMC | XEN MID |

## Client Sample ID: PB 6 10'

**Lab Sample ID: 880-10694-24**
**Matrix: Solid**
**Date Collected: 01/26/22 11:27**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 04:14 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 6 10'

**Lab Sample ID: 880-10694-24**
**Matrix: Solid**
**Date Collected: 01/26/22 11:27**
**Date Received: 01/28/22 10:03**

| 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 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 12:28 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 00:18 | SMC | XEN MID |

## Client Sample ID: PB 7 1'

**Lab Sample ID: 880-10694-25**
**Matrix: Solid**
**Date Collected: 01/26/22 10:21**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 04:35 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 12:50 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18409 | 02/03/22 00:26 | SMC | XEN MID |

## Client Sample ID: PB 7 3'

**Lab Sample ID: 880-10694-26**
**Matrix: Solid**
**Date Collected: 01/26/22 10:22**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 04:55 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 13:12 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 00:33 | SMC | XEN MID |

## Client Sample ID: PB 7 5'

**Lab Sample ID: 880-10694-27**
**Matrix: Solid**
**Date Collected: 01/26/22 10:23**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 05:16 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 13:34 | AJ | XEN MID |

Eurofins Midland

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 7 5'
**Date Collected: 01/26/22 10:23**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-27
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 00:41 | SMC | XEN MID |

## Client Sample ID: PB 7 10'
**Date Collected: 01/26/22 10:24**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-28
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 05:36 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 13:56 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 00:49 | SMC | XEN MID |

## Client Sample ID: PB 8 1'
**Date Collected: 01/26/22 13:53**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-29
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 05:56 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 14:16 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 20 | | | 18409 | 02/03/22 00:56 | SMC | XEN MID |

## Client Sample ID: PB 8 3'
**Date Collected: 01/26/22 13:56**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-30
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 06:17 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 14:39 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 01:19 | SMC | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 8 5'
**Date Collected: 01/26/22 13:55**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-31
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 08:07 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 15:36 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 01:27 | SMC | XEN MID |

## Client Sample ID: PB 8 10'
**Date Collected: 01/26/22 13:56**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-32
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 08:27 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 15:55 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 01:49 | SMC | XEN MID |

## Client Sample ID: PB 9 1'
**Date Collected: 01/27/22 09:56**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-33
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 08:48 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 16:15 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 01:57 | SMC | XEN MID |

## Client Sample ID: PB 9 3'
**Date Collected: 01/27/22 09:57**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-34
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 09:08 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 9 3'

**Lab Sample ID: 880-10694-34**
**Matrix: Solid**
**Date Collected: 01/27/22 09:57**
**Date Received: 01/28/22 10:03**

| 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 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 16:35 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 02:04 | SMC | XEN MID |

## Client Sample ID: PB 9 5'

**Lab Sample ID: 880-10694-35**
**Matrix: Solid**
**Date Collected: 01/27/22 09:58**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 09:29 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 16:55 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 02:12 | SMC | XEN MID |

## Client Sample ID: PB 9 10'

**Lab Sample ID: 880-10694-36**
**Matrix: Solid**
**Date Collected: 01/27/22 09:59**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 09:49 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 17:16 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 02:20 | SMC | XEN MID |

## Client Sample ID: PB 10 1'

**Lab Sample ID: 880-10694-37**
**Matrix: Solid**
**Date Collected: 01/27/22 10:29**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 10:10 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 17:36 | AJ | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: PB 10 1'

**Date Collected: 01/27/22 10:29**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-37**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 02:27 | SMC | XEN MID |

## Client Sample ID: PB 10 3'

**Date Collected: 01/27/22 10:30**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-38**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 10:30 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 17:56 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18211 | 01/31/22 18:43 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18409 | 02/03/22 02:35 | SMC | XEN MID |

## Client Sample ID: PB 10 5'

**Date Collected: 01/27/22 10:31**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-39**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 10:51 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 18:15 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18519 | 02/03/22 11:30 | CH | XEN MID |

## Client Sample ID: PB 10 10'

**Date Collected: 01/27/22 10:32**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-40**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 18038 | 01/28/22 11:06 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 11:11 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18189 | 01/31/22 15:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18455 | 02/03/22 18:36 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18519 | 02/03/22 11:53 | CH | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S1 1'

**Lab Sample ID: 880-10694-45**
**Matrix: Solid**
**Date Collected: 01/24/22 14:15**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18039 | 01/28/22 11:09 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 16:11 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 17:30 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18519 | 02/03/22 12:46 | CH | XEN MID |

## Client Sample ID: S1 3'

**Lab Sample ID: 880-10694-46**
**Matrix: Solid**
**Date Collected: 01/24/22 14:16**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18039 | 01/28/22 11:09 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 16:31 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 17:51 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18519 | 02/03/22 12:54 | CH | XEN MID |

## Client Sample ID: S1 5'

**Lab Sample ID: 880-10694-47**
**Matrix: Solid**
**Date Collected: 01/24/22 14:17**
**Date Received: 01/28/22 10:03**

| 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 | 18039 | 01/28/22 11:09 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 16:52 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 18:12 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18519 | 02/03/22 13:01 | CH | XEN MID |

## Client Sample ID: S1 9'

**Lab Sample ID: 880-10694-48**
**Matrix: Solid**
**Date Collected: 01/24/22 14:18**
**Date Received: 01/28/22 10:03**

| 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 | 18039 | 01/28/22 11:09 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 17:12 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |

Eurofins Midland

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S1 9'
**Date Collected: 01/24/22 14:18**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-48**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 18:34 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18519 | 02/03/22 13:09 | CH | XEN MID |

## Client Sample ID: S1 12'
**Date Collected: 01/24/22 14:19**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-49**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 18039 | 01/28/22 11:09 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 17:33 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 18:55 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18519 | 02/03/22 13:17 | CH | XEN MID |

## Client Sample ID: S2 1'
**Date Collected: 01/26/22 08:08**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-50**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 18039 | 01/28/22 11:09 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18042 | 01/29/22 17:53 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18149 | 01/31/22 12:01 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 19:17 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18519 | 02/03/22 13:39 | CH | XEN MID |

## Client Sample ID: S2 3'
**Date Collected: 01/26/22 08:09**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-51**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 11:14 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 19:38 | AJ | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S2 3'
**Date Collected: 01/26/22 08:09**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-51**
**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 | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18519 | 02/03/22 13:47 | CH | XEN MID |

## Client Sample ID: S2 5'
**Date Collected: 01/26/22 08:10**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-52**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 11:35 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 19:59 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 18519 | 02/03/22 14:09 | CH | XEN MID |

## Client Sample ID: S2 9'
**Date Collected: 01/26/22 08:11**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-53**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 11:55 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 20:21 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 18519 | 02/03/22 14:24 | CH | XEN MID |

## Client Sample ID: S7 1'
**Date Collected: 01/26/22 12:35**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-54**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 12:16 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18166 | 01/31/22 12:13 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/02/22 20:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18519 | 02/03/22 14:17 | CH | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S7 3'
**Date Collected: 01/26/22 12:36**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-55**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 12:36 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 04:19 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18519 | 02/03/22 14:32 | CH | XEN MID |

## Client Sample ID: S7 5'
**Date Collected: 01/26/22 12:37**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-56**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 12:56 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 04:40 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18519 | 02/03/22 14:40 | CH | XEN MID |

## Client Sample ID: S7 10'
**Date Collected: 01/26/22 12:38**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-57**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 13:17 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 05:00 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18212 | 01/31/22 18:46 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18519 | 02/03/22 14:47 | CH | XEN MID |

## Client Sample ID: S8 1'
**Date Collected: 01/27/22 11:34**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-58**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 13:37 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S8 1'
**Date Collected: 01/27/22 11:34**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-58**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 05:22 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 00:35 | SMC | XEN MID |

## Client Sample ID: S8 3'
**Date Collected: 01/27/22 11:35**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-59**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 13:58 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 05:43 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 00:54 | SMC | XEN MID |

## Client Sample ID: S8 5'
**Date Collected: 01/27/22 11:36**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-60**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 18099 | 01/31/22 07:27 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 18101 | 01/31/22 14:18 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18336 | 02/02/22 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18343 | 02/03/22 06:03 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 01:00 | SMC | XEN MID |

## Client Sample ID: S8 10'
**Date Collected: 01/27/22 11:37**
**Date Received: 01/28/22 10:03**

**Lab Sample ID: 880-10694-61**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 18045 | 01/28/22 13:19 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17866 | 01/29/22 11:44 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 18190 | 01/31/22 15:06 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18339 | 02/02/22 17:38 | AJ | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S8 10'

**Lab Sample ID: 880-10694-61**
**Matrix: Solid**
**Date Collected: 01/27/22 11:37**
**Date Received: 01/28/22 10:03**

| 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 | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 01:06 | SMC | XEN MID |

## Client Sample ID: S9 1'

**Lab Sample ID: 880-10694-62**
**Matrix: Solid**
**Date Collected: 01/27/22 08:50**
**Date Received: 01/28/22 10:03**

| 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 | 18045 | 01/28/22 13:19 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17866 | 01/29/22 12:12 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18190 | 01/31/22 15:06 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18339 | 02/02/22 18:00 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 20 | | | 18287 | 02/03/22 01:12 | SMC | XEN MID |

## Client Sample ID: S9 3'

**Lab Sample ID: 880-10694-63**
**Matrix: Solid**
**Date Collected: 01/27/22 08:51**
**Date Received: 01/28/22 10:03**

| 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 | 18045 | 01/28/22 13:19 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17866 | 01/29/22 12:40 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18190 | 01/31/22 15:06 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18339 | 02/02/22 18:22 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 01:31 | SMC | XEN MID |

## Client Sample ID: S9 5'

**Lab Sample ID: 880-10694-64**
**Matrix: Solid**
**Date Collected: 01/27/22 08:52**
**Date Received: 01/28/22 10:03**

| Prep 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 | 18045 | 01/28/22 13:19 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17866 | 01/29/22 13:08 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 18190 | 01/31/22 15:06 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18339 | 02/02/22 18:43 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 01:37 | SMC | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

## Client Sample ID: S9 10'

**Date Collected: 01/27/22 08:53**
**Date Received: 01/28/22 10:03**

## Lab Sample ID: 880-10694-65

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 18045 | 01/28/22 13:19 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 17866 | 01/29/22 13:36 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 18428 | 02/03/22 13:55 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 18413 | 02/02/22 16:07 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 18190 | 01/31/22 15:06 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 18339 | 02/02/22 19:06 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 18208 | 01/31/22 18:34 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 18287 | 02/03/22 01:43 | SMC | XEN MID |

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-10694-1
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 | T104704400-22-23 | 06-30-22 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

# Method Summary

Client: Larson & Associates, Inc. Job ID: 880-10694-1
Project/Site: Boo Radley SDG: 21-0105-08

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8021B | Volatile Organic Compounds (GC) | SW846 | XEN MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | XEN MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | XEN MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | XEN MID |
| 300.0 | Anions, Ion Chromatography | MCAWW | XEN MID |
| 5035 | Closed System Purge and Trap | SW846 | XEN MID |
| 8015NM Prep | Microextraction | SW846 | XEN MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | XEN MID |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-10694-1 | PB 1 1' | Solid | 01/24/22 12:12 | 01/28/22 10:03 |
| 880-10694-2 | PB 1 3' | Solid | 01/24/22 12:13 | 01/28/22 10:03 |
| 880-10694-3 | PB 1 5' | Solid | 01/24/22 12:14 | 01/28/22 10:03 |
| 880-10694-4 | PB 1 9' | Solid | 01/24/22 12:15 | 01/28/22 10:03 |
| 880-10694-5 | PB 2 1' | Solid | 01/24/22 13:15 | 01/28/22 10:03 |
| 880-10694-6 | PB 2 3' | Solid | 01/24/22 13:16 | 01/28/22 10:03 |
| 880-10694-7 | PB 2 5' | Solid | 01/24/22 13:17 | 01/28/22 10:03 |
| 880-10694-8 | PB 2 8' | Solid | 01/24/22 13:18 | 01/28/22 10:03 |
| 880-10694-9 | PB 3 1' | Solid | 01/24/22 13:45 | 01/28/22 10:03 |
| 880-10694-10 | PB 3 3' | Solid | 01/24/22 13:46 | 01/28/22 10:03 |
| 880-10694-11 | PB 3 5' | Solid | 01/24/22 13:47 | 01/28/22 10:03 |
| 880-10694-12 | PB 3 9' | Solid | 01/24/22 13:48 | 01/28/22 10:03 |
| 880-10694-13 | PB 4 1' | Solid | 01/26/22 09:00 | 01/28/22 10:03 |
| 880-10694-14 | PB 4 3' | Solid | 01/26/22 09:01 | 01/28/22 10:03 |
| 880-10694-15 | PB 4 5' | Solid | 01/26/22 09:02 | 01/28/22 10:03 |
| 880-10694-16 | PB 4 10' | Solid | 01/26/22 09:02 | 01/28/22 10:03 |
| 880-10694-17 | PB 5 1' | Solid | 01/26/22 09:38 | 01/28/22 10:03 |
| 880-10694-18 | PB 5 3' | Solid | 01/26/22 09:39 | 01/28/22 10:03 |
| 880-10694-19 | PB 5 5' | Solid | 01/26/22 09:40 | 01/28/22 10:03 |
| 880-10694-20 | PB 5 10' | Solid | 01/26/22 09:44 | 01/28/22 10:03 |
| 880-10694-21 | PB 6 1' | Solid | 01/26/22 11:24 | 01/28/22 10:03 |
| 880-10694-22 | PB 6 3' | Solid | 01/26/22 11:25 | 01/28/22 10:03 |
| 880-10694-23 | PB 6 5' | Solid | 01/26/22 11:26 | 01/28/22 10:03 |
| 880-10694-24 | PB 6 10' | Solid | 01/26/22 11:27 | 01/28/22 10:03 |
| 880-10694-25 | PB 7 1' | Solid | 01/26/22 10:21 | 01/28/22 10:03 |
| 880-10694-26 | PB 7 3' | Solid | 01/26/22 10:22 | 01/28/22 10:03 |
| 880-10694-27 | PB 7 5' | Solid | 01/26/22 10:23 | 01/28/22 10:03 |
| 880-10694-28 | PB 7 10' | Solid | 01/26/22 10:24 | 01/28/22 10:03 |
| 880-10694-29 | PB 8 1' | Solid | 01/26/22 13:53 | 01/28/22 10:03 |
| 880-10694-30 | PB 8 3' | Solid | 01/26/22 13:56 | 01/28/22 10:03 |
| 880-10694-31 | PB 8 5' | Solid | 01/26/22 13:55 | 01/28/22 10:03 |
| 880-10694-32 | PB 8 10' | Solid | 01/26/22 13:56 | 01/28/22 10:03 |
| 880-10694-33 | PB 9 1' | Solid | 01/27/22 09:56 | 01/28/22 10:03 |
| 880-10694-34 | PB 9 3' | Solid | 01/27/22 09:57 | 01/28/22 10:03 |
| 880-10694-35 | PB 9 5' | Solid | 01/27/22 09:58 | 01/28/22 10:03 |
| 880-10694-36 | PB 9 10' | Solid | 01/27/22 09:59 | 01/28/22 10:03 |
| 880-10694-37 | PB 10 1' | Solid | 01/27/22 10:29 | 01/28/22 10:03 |
| 880-10694-38 | PB 10 3' | Solid | 01/27/22 10:30 | 01/28/22 10:03 |
| 880-10694-39 | PB 10 5' | Solid | 01/27/22 10:31 | 01/28/22 10:03 |
| 880-10694-40 | PB 10 10' | Solid | 01/27/22 10:32 | 01/28/22 10:03 |
| 880-10694-45 | S1 1' | Solid | 01/24/22 14:15 | 01/28/22 10:03 |
| 880-10694-46 | S1 3' | Solid | 01/24/22 14:16 | 01/28/22 10:03 |
| 880-10694-47 | S1 5' | Solid | 01/24/22 14:17 | 01/28/22 10:03 |
| 880-10694-48 | S1 9' | Solid | 01/24/22 14:18 | 01/28/22 10:03 |
| 880-10694-49 | S1 12' | Solid | 01/24/22 14:19 | 01/28/22 10:03 |
| 880-10694-50 | S2 1' | Solid | 01/26/22 08:08 | 01/28/22 10:03 |
| 880-10694-51 | S2 3' | Solid | 01/26/22 08:09 | 01/28/22 10:03 |
| 880-10694-52 | S2 5' | Solid | 01/26/22 08:10 | 01/28/22 10:03 |
| 880-10694-53 | S2 9' | Solid | 01/26/22 08:11 | 01/28/22 10:03 |
| 880-10694-54 | S7 1' | Solid | 01/26/22 12:35 | 01/28/22 10:03 |
| 880-10694-55 | S7 3' | Solid | 01/26/22 12:36 | 01/28/22 10:03 |
| 880-10694-56 | S7 5' | Solid | 01/26/22 12:37 | 01/28/22 10:03 |
| 880-10694-57 | S7 10' | Solid | 01/26/22 12:38 | 01/28/22 10:03 |
| 880-10694-58 | S8 1' | Solid | 01/27/22 11:34 | 01/28/22 10:03 |
| 880-10694-59 | S8 3' | Solid | 01/27/22 11:35 | 01/28/22 10:03 |

# Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Radley

Job ID: 880-10694-1
SDG: 21-0105-08

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-10694-60 | S8 5' | Solid | 01/27/22 11:36 | 01/28/22 10:03 |
| 880-10694-61 | S8 10' | Solid | 01/27/22 11:37 | 01/28/22 10:03 |
| 880-10694-62 | S9 1' | Solid | 01/27/22 08:50 | 01/28/22 10:03 |
| 880-10694-63 | S9 3' | Solid | 01/27/22 08:51 | 01/28/22 10:03 |
| 880-10694-64 | S9 5' | Solid | 01/27/22 08:52 | 01/28/22 10:03 |
| 880-10694-65 | S9 10' | Solid | 01/27/22 08:53 | 01/28/22 10:03 |

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No. 2390

10694

# CHAIN-OF-CUSTODY

7/7/2022 (Rev. 1)

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld Ste 202
Midland TX 79701
432-687 0901

DATE 1/28/22 PAGE 1 OF 5

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR JR & TP

Data Reported to

TRRP report? ☐ Yes ☐ No

TIME ZONE Time zone/State

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ 8021B | 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 ☐ | D W 200.8 ☐ | OTHER LIST ☐ | RCI ☐ | TOX ☐ | TCLP ☐ | TDS ☐ | TSS ☐ | FLASHPOINT ☐ | pH ☐ | % MOISTURE ☐ | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PB 1 1' | | 1/24 | 12:12 | S | 1 | | | | X | | X | |
| PB 1 3' | | 1/24 | 12:13 | S | 1 | | | | X | | X | |
| PB 1 5' | | 1/24 | 12 14 | S | 1 | | | | X | | X | |
| PB 1 9 | | 1/24 | 12:15 | S | 1 | | | | X | | X | |
| PB 2 1' | | 1/24 | 13 15 | S | 1 | | | | X | | X | |
| PB 2 3' | | 1/24 | 13 16 | S | 1 | | | | X | | X | |
| PB 2 5' | | 1/24 | 13 17 | S | 1 | | | | X | | X | |
| PB 2 8' | | 1/24 | 13 18 | S | 1 | | | | X | | X | |
| PB 3 1' | | 1/24 | 13 45 | S | 1 | | | | X | | X | |
| PB 3 3' | | 1/24 | 13 46 | S | 1 | | | | X | | X | |
| PB 3 5' | | 1/24 | 13 47 | S | 1 | | | | X | | X | |
| PB 3 9' | | 1/24 | 13:48 | S | 1 | | | | X | | X | |
| PB4 1' | | 1/26 | 9:00 | S | 1 | | | | X | | X | |
| PB4 3 | | 1/26 | 9 01 | S | 1 | | | | X | | X | |
| PB4 5' | | 1/26 | 9:02 | S | 1 | | | | X | | X | |
| TOTAL 15 | | | | | 15 | | | | | | | |

RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature)

01/28/22 10:03

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 1.2 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

880-10694 Chain of Custody

Page 113 of 118

Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

Page 466 of 497

No. 2391

10694 CHAIN-OF-CUSTODY

7/7/2022 (Rev. 1)

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld Ste 202
Midland TX 79701
432-687 0901

Data Reported to

DATE 1/28/22 PAGE 2 OF 5

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR JR & TP

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 | UNPRESERVED | ANALYSES: BTEX ☐ MTBE ☐ BX 8021B | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PB 4 10' | | 1/26 | 9 02 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PB 5 1' | | 1/26 | 9 38 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PB 5 3' | | 1/26 | 9 39 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PB 5 5' | | 1/26 | 9 40 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PB 5 10' | | 1/26 | 9 41 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PB 6 1' | | 1/26 | 11.24 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PB 6 3' | | 1/26 | 11.25 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PB 6 5' | | 1/26 | 11:26 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PB 6 10' | | 1/26 | 1127 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PB 7 1' | | 1/26 | 10:21 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PB 7 3' | | 1/26 | 1022 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PB 7 5 | | 1/26 | 10.23 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PB 7 10 | | 1/26 | 10 24 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PBB 1' | | 1/26 | 13 53 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| PB 8 3' | | 1/26 | 13:56 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| TOTAL 15 | | | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) John White DATE/TIME 01/28/22 10:05 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 X
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 1/2 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

Page 114 of 118

Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

Page 467 of 497

No. 2392

101694

# CHAIN-OF-CUSTODY

7/7/2022 (Rev. 1)

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld Ste 202
Midland TX 79701
432-687-0901

DATE 1/28/22 PAGE 3 OF 5

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0165-08 COLLECTOR JR & TP

Data Reported to

TRRP report? ☐ Yes ☐ No

TIME ZONE Time zone/State

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl, $HNO_3$, $H_2SO_4$, NaOH, ICE, UNPRESSERVED

ANALYSES: BTEX 8021 MTBE, TRPH 418.1, TPH 1005, TPH 1006, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, VOC 8260, SVOC 8270, PAH 8270, HOLDPAH, 8081 PESTICIDES, 8151 HERBICIDES, 8082 PCBS, TCLP - METALS (RCRA), TCLP VOC, TCLP - PEST, HERB, Semi-VOC, TOTAL METALS (RCRA), OTHER LIST, LEAD - TOTAL, D W 200.8, TCLP, RCI, TOX, TDS, TSS, FLASHPOINT, pH, % MOISTURE, CYANIDE, HEXAVALENT CHROMIUM, EXPLOSIVES, PECHLORATE, CHLORIDES, ANIONS, ALKALINITY

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | HCl | $HNO_3$ | $H_2SO_4$ NaOH | ICE | UNPRESSERVED | BTEX 8021 MTBE | TRPH 418.1 | TPH 1005 | TPH 1006 | GASOLINE MOD 8015 | DIESEL - MOD 8015 | OIL - MOD 8015 | VOC 8260 | SVOC 8270 | PAH 8270 | HOLDPAH | 8081 PESTICIDES | 8151 HERBICIDES | 8082 PCBS | TCLP - METALS (RCRA) | TCLP VOC | TCLP - PEST | HERB | Semi-VOC | TOTAL METALS (RCRA) | OTHER LIST | LEAD - TOTAL | D W 200.8 | TCLP | RCI | TOX | TDS | TSS | FLASHPOINT | pH | % MOISTURE | CYANIDE | HEXAVALENT CHROMIUM | EXPLOSIVES | PECHLORATE | CHLORIDES | ANIONS | ALKALINITY | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PB 8 5' | | 1/26 | 13:55 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 8 10' | | 1/26 | 13:56 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 9 1' | | 1/27 | 9:56 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 9 3' | | 1/27 | 9:57 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 9 5' | | 1/27 | 9:58 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 9 10' | | 1/27 | 9:59 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 10 1' | | 1/27 | 10:29 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 10 3' | | 1/27 | 10:30 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 10 5' | | 1/27 | 10:31 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 10 10' | | 1/27 | 10:32 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 11 1' | | 1/24 | 10:51 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 11 3' | | 1/24 | 10:52 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 11 5' | | 1/24 | 10:53 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PB 11 10' | | 1/24 | 10:54 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S1 1' | | 1/24 | 14:15 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) John White DATE/TIME 01/28/22 10:03 RECEIVED BY (Signature) Rebecca R

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 1.2 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

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Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

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No. 2393

10694

# CHAIN-OF-CUSTODY

7/7/2022 (Rev. 1)

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld Ste 202
Midland TX 79701
432 687-0901

Data Reported to

DATE 1/28/22 PAGE 4 OF 5

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Boo Radley

LAI PROJECT # 21-0105-08 COLLECTOR JR & TP

TRRP report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

TIME ZONE Time zone/State

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ NaOH | ICE | UNPRESSERVED | ANALYSES: BTEX 8021B 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 4 ANIONS / ALKALINITY | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S1 3' | | 1/24 | 14 16 | S | 1 | | | | X | | X | |
| S1 5' | | 1/24 | 14:17 | S | 1 | | | | X | | X | |
| S1 9' | | 1/24 | 14 18 | S | 1 | | | | X | | X | |
| S1 12' | | 1/24 | 14 19 | S | 1 | | | | X | | X | |
| S2 1' | | 1/26 | 8:08 | S | 1 | | | | X | | X | |
| S2 3' | | 1/26 | 8 09 | S | 1 | | | | X | | X | |
| S2 5' | | 1/26 | 8 10 | S | 1 | | | | X | | X | |
| S2 9' | | 1/26 | 8 11 | S | 1 | | | | X | | X | |
| S7 1' | | 1/26 | 12:35 | S | 1 | | | | X | | X | |
| S7 3' | | 1/26 | 12:36 | S | 1 | | | | X | | X | |
| S7 5' | | 1/26 | 12:37 | S | 1 | | | | X | | X | |
| S7 10' | | 1/26 | 12:38 | S | 1 | | | | X | | X | |
| S8 1' | | 1/27 | 11:34 | S | 1 | | | | X | | X | |
| S8 3' | | 1/27 | 11:35 | S | 1 | | | | X | | X | |
| S8 5 | | 1/27 | 11 36 | S | 1 | | | | X | | X | |
| TOTAL 15 | | | | | | | | | | | | |

RELINQUISHED BY (Signature) John White DATE/TIME 01/28/22 1003 RECEIVED BY: (Signature) Littrell R

RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature)

RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature)

LABORATORY Xenco

TURN AROUND TIME
NORMAL X
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 1.2 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ✓ INTACT ☐ NOT USED
☐ CARRIER BILL #
✓ HAND DELIVERED

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No. 2394

10694

# CHAIN-OF-CUSTODY

7/7/2022 (Rev. 1)

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld Ste 202
Midland TX 79701
432-687 0901

Data Reported to

DATE 1/28/22 PAGE 5 OF 5

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Box Radley

LAI PROJECT # 21-0105-08 COLLECTOR JR/TP

TRRP report? ☐ Yes ☐ No

TIME ZONE
Time zone/State

(S=SOIL) W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ | NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ By 8021B | TRPH 418.1 ☐ | TPH 1005 ☐ | TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ | HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8082 PCBS ☐ | 8151 HERBICIDES ☐ | TCLP - METALS (RCRA) ☐ | TCLP VOC ☐ | TCLP - PEST ☐ | HERB ☐ | Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ | OTHER LIST ☐ | LEAD - TOTAL ☐ | D W 200.8 ☐ | TCLP ☐ | RCI ☐ | TOX ☐ | FLASHPOINT ☐ | TDS ☐ | TSS ☐ | % MOISTURE ☐ | CYANIDE ☐ | pH ☐ | HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ | PECHLORATE ☐ | 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 | 8082 PCBS | 8151 HERBICIDES | TCLP - METALS (RCRA) | TCLP VOC | TCLP - PEST | HERB | Semi-VOC | TOTAL METALS (RCRA) | OTHER LIST | LEAD - TOTAL | D W 200.8 | TCLP | RCI | TOX | FLASHPOINT | TDS | TSS | % MOISTURE | CYANIDE | pH | HEXAVALENT CHROMIUM | EXPLOSIVES | PECHLORATE | CHLORIDE | ANIONS | ALKALINITY | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S8 10 | | 1/27 | 11 37 | S | 1 | | | | ✓ | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S9 1' | | 1/27 | 8.50 | S | 1 | | | | ✓ | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S9 3 | | 1/27 | 8.51 | S | 1 | | | | ✓ | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S9 5' | | 1/27 | 8.52 | S | 1 | | | | ✓ | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S9 10' | | 1/27 | 8.53 | S | 1 | | | | ✓ | | X | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL 5 | | | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) John White DATE/TIME 01/28/22 10:03 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 0/1.2 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

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# Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-10694-1
SDG Number: 21-0105-08

**Login Number: 10694**
**List Number: 1**
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

eurofins | Environment Testing America



# ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-14917-1
Laboratory Sample Delivery Group: 21-0105-08
Client Project/Site: Boo Raddley
Revision: 1

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

Holly Taylor

*Authorized for release by:*
*7/7/2022 5:47:20 PM*

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Boo Raddley

Laboratory Job ID: 880-14917-1
SDG: 21-0105-08

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# Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-14917-1
Project/Site: Boo Raddley SDG: 21-0105-08

## Qualifiers

### 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 Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

## Job ID: 880-14917-1

### Laboratory: Eurofins Midland

**Narrative**

**Job Narrative**
**880-14917-1**

**Comments**
No additional comments.

**Revision**
The report being provided is a revision of the original report sent on 5/24/2022. The report (revision 1) is being revised to remove all sample results for PB-11 at all depths per Robert Nelson (email).

**Receipt**
The samples were received on 5/18/2022 8:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.1° C.

**General Chemistry**
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 Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

## Client Sample ID: S-1, 15'
**Lab Sample ID: 880-14917-11**
**Date Collected: 05/16/22 14:00**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 720 | | 24.9 | | mg/Kg | | | 05/21/22 00:39 | 5 |

## Client Sample ID: S-1, 20'
**Lab Sample ID: 880-14917-12**
**Date Collected: 05/16/22 14:02**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1290 | | 49.5 | | mg/Kg | | | 05/21/22 00:47 | 10 |

## Client Sample ID: S-1, 25'
**Lab Sample ID: 880-14917-13**
**Date Collected: 05/16/22 14:15**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1920 | | 25.0 | | mg/Kg | | | 05/21/22 00:54 | 5 |

## Client Sample ID: S-1, 30'
**Lab Sample ID: 880-14917-14**
**Date Collected: 05/16/22 14:21**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1610 | | 25.0 | | mg/Kg | | | 05/23/22 23:16 | 5 |

## Client Sample ID: S-1, 35'
**Lab Sample ID: 880-14917-15**
**Date Collected: 05/16/22 14:30**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 597 | | 4.98 | | mg/Kg | | | 05/23/22 23:43 | 1 |

## Client Sample ID: S-1, 40'
**Lab Sample ID: 880-14917-16**
**Date Collected: 05/16/22 14:32**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 498 | | 4.95 | | mg/Kg | | | 05/23/22 23:53 | 1 |

## Client Sample ID: S-2, 10'
**Lab Sample ID: 880-14917-17**
**Date Collected: 05/17/22 09:50**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 219 | | 25.2 | | mg/Kg | | | 05/24/22 00:02 | 5 |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

## Client Sample ID: S-2, 15'
**Lab Sample ID: 880-14917-18**
**Date Collected: 05/17/22 09:52**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 908 | | 25.0 | | mg/Kg | | | 05/24/22 00:11 | 5 |

## Client Sample ID: S-2, 20'
**Lab Sample ID: 880-14917-19**
**Date Collected: 05/17/22 09:54**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 650 | | 25.3 | | mg/Kg | | | 05/24/22 00:39 | 5 |

## Client Sample ID: S-2, 25'
**Lab Sample ID: 880-14917-20**
**Date Collected: 05/17/22 10:24**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 500 | | 4.98 | | mg/Kg | | | 05/24/22 00:48 | 1 |

## Client Sample ID: S-2, 30'
**Lab Sample ID: 880-14917-21**
**Date Collected: 05/17/22 10:26**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 389 | | 24.8 | | mg/Kg | | | 05/24/22 00:57 | 5 |

## Client Sample ID: PB-4, 15'
**Lab Sample ID: 880-14917-22**
**Date Collected: 05/17/22 10:58**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 421 | | 24.8 | | mg/Kg | | | 05/24/22 01:07 | 5 |

## Client Sample ID: PB-4, 20'
**Lab Sample ID: 880-14917-23**
**Date Collected: 05/17/22 11:00**
**Matrix: Solid**
**Date Received: 05/18/22 08:40**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 356 | | 5.01 | | mg/Kg | | | 05/24/22 01:16 | 1 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-25821/1-A**
**Matrix: Solid**
**Analysis Batch: 25999**

**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 | | | 05/20/22 21:11 | 1 |

**Lab Sample ID: LCS 880-25821/2-A**
**Matrix: Solid**
**Analysis Batch: 25999**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 257.7 | | mg/Kg | | 103 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-25821/3-A**
**Matrix: Solid**
**Analysis Batch: 25999**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 256.7 | | mg/Kg | | 103 | 90 - 110 | 0 | 20 |

**Lab Sample ID: 880-14917-A-4-B MS**
**Matrix: Solid**
**Analysis Batch: 25999**

**Client Sample ID: 880-14917-A-4-B MS**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1720 | | 1250 | 3047 | | mg/Kg | | 107 | 90 - 110 | | |

**Lab Sample ID: 880-14917-A-4-C MSD**
**Matrix: Solid**
**Analysis Batch: 25999**

**Client Sample ID: 880-14917-A-4-C MSD**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1720 | | 1250 | 3037 | | mg/Kg | | 106 | 90 - 110 | 0 | 20 |

**Lab Sample ID: MB 880-25822/1-A**
**Matrix: Solid**
**Analysis Batch: 26073**

**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 | | | 05/23/22 22:48 | 1 |

**Lab Sample ID: LCS 880-25822/2-A**
**Matrix: Solid**
**Analysis Batch: 26073**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 241.8 | | mg/Kg | | 97 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-25822/3-A**
**Matrix: Solid**
**Analysis Batch: 26073**

**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 | 241.5 | | mg/Kg | | 97 | 90 - 110 | 0 | 20 |

# QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Boo Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: 880-14917-14 MS**
**Matrix: Solid**
**Analysis Batch: 26073**

**Client Sample ID: S-1, 30'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1610 | | 1250 | 2917 | | mg/Kg | | 105 | 90 - 110 | | |

**Lab Sample ID: 880-14917-14 MSD**
**Matrix: Solid**
**Analysis Batch: 26073**

**Client Sample ID: S-1, 30'**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1610 | | 1250 | 2962 | | mg/Kg | | 108 | 90 - 110 | 2 | 20 |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

## HPLC/IC

### Leach Batch: 25821

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-14917-11 | S-1, 15' | Soluble | Solid | DI Leach | |
| 880-14917-12 | S-1, 20' | Soluble | Solid | DI Leach | |
| 880-14917-13 | S-1, 25' | Soluble | Solid | DI Leach | |
| MB 880-25821/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-25821/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-25821/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-14917-A-4-B MS | 880-14917-A-4-B MS | Soluble | Solid | DI Leach | |
| 880-14917-A-4-C MSD | 880-14917-A-4-C MSD | Soluble | Solid | DI Leach | |

### Leach Batch: 25822

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-14917-14 | S-1, 30' | Soluble | Solid | DI Leach | |
| 880-14917-15 | S-1, 35' | Soluble | Solid | DI Leach | |
| 880-14917-16 | S-1, 40' | Soluble | Solid | DI Leach | |
| 880-14917-17 | S-2, 10' | Soluble | Solid | DI Leach | |
| 880-14917-18 | S-2, 15' | Soluble | Solid | DI Leach | |
| 880-14917-19 | S-2, 20' | Soluble | Solid | DI Leach | |
| 880-14917-20 | S-2, 25' | Soluble | Solid | DI Leach | |
| 880-14917-21 | S-2, 30' | Soluble | Solid | DI Leach | |
| 880-14917-22 | PB-4, 15' | Soluble | Solid | DI Leach | |
| 880-14917-23 | PB-4, 20' | Soluble | Solid | DI Leach | |
| MB 880-25822/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-25822/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-25822/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-14917-14 MS | S-1, 30' | Soluble | Solid | DI Leach | |
| 880-14917-14 MSD | S-1, 30' | Soluble | Solid | DI Leach | |

### Analysis Batch: 25999

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-14917-11 | S-1, 15' | Soluble | Solid | 300.0 | 25821 |
| 880-14917-12 | S-1, 20' | Soluble | Solid | 300.0 | 25821 |
| 880-14917-13 | S-1, 25' | Soluble | Solid | 300.0 | 25821 |
| MB 880-25821/1-A | Method Blank | Soluble | Solid | 300.0 | 25821 |
| LCS 880-25821/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 25821 |
| LCSD 880-25821/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 25821 |
| 880-14917-A-4-B MS | 880-14917-A-4-B MS | Soluble | Solid | 300.0 | 25821 |
| 880-14917-A-4-C MSD | 880-14917-A-4-C MSD | Soluble | Solid | 300.0 | 25821 |

### Analysis Batch: 26073

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-14917-14 | S-1, 30' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-15 | S-1, 35' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-16 | S-1, 40' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-17 | S-2, 10' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-18 | S-2, 15' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-19 | S-2, 20' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-20 | S-2, 25' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-21 | S-2, 30' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-22 | PB-4, 15' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-23 | PB-4, 20' | Soluble | Solid | 300.0 | 25822 |
| MB 880-25822/1-A | Method Blank | Soluble | Solid | 300.0 | 25822 |

# QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

## HPLC/IC (Continued)

### Analysis Batch: 26073 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 880-25822/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 25822 |
| LCSD 880-25822/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 25822 |
| 880-14917-14 MS | S-1, 30' | Soluble | Solid | 300.0 | 25822 |
| 880-14917-14 MSD | S-1, 30' | Soluble | Solid | 300.0 | 25822 |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

## Client Sample ID: S-1, 15'
**Date Collected: 05/16/22 14:00**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-11**
**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 | 25821 | 05/18/22 14:10 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 25999 | 05/21/22 00:39 | CH | XEN MID |

## Client Sample ID: S-1, 20'
**Date Collected: 05/16/22 14:02**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-12**
**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 | 25821 | 05/18/22 14:10 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 25999 | 05/21/22 00:47 | CH | XEN MID |

## Client Sample ID: S-1, 25'
**Date Collected: 05/16/22 14:15**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-13**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 25821 | 05/18/22 14:10 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 25999 | 05/21/22 00:54 | CH | XEN MID |

## Client Sample ID: S-1, 30'
**Date Collected: 05/16/22 14:21**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-14**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 26073 | 05/23/22 23:16 | CH | XEN MID |

## Client Sample ID: S-1, 35'
**Date Collected: 05/16/22 14:30**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-15**
**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 26073 | 05/23/22 23:43 | CH | XEN MID |

## Client Sample ID: S-1, 40'
**Date Collected: 05/16/22 14:32**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-16**
**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 26073 | 05/23/22 23:53 | CH | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

## Client Sample ID: S-2, 10'
**Date Collected: 05/17/22 09:50**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-17**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 26073 | 05/24/22 00:02 | CH | XEN MID |

## Client Sample ID: S-2, 15'
**Date Collected: 05/17/22 09:52**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-18**
**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 26073 | 05/24/22 00:11 | CH | XEN MID |

## Client Sample ID: S-2, 20'
**Date Collected: 05/17/22 09:54**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-19**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 26073 | 05/24/22 00:39 | CH | XEN MID |

## Client Sample ID: S-2, 25'
**Date Collected: 05/17/22 10:24**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-20**
**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 26073 | 05/24/22 00:48 | CH | XEN MID |

## Client Sample ID: S-2, 30'
**Date Collected: 05/17/22 10:26**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-21**
**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 26073 | 05/24/22 00:57 | CH | XEN MID |

## Client Sample ID: PB-4, 15'
**Date Collected: 05/17/22 10:58**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-22**
**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 26073 | 05/24/22 01:07 | CH | XEN MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Boo Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

**Client Sample ID: PB-4, 20'**
**Date Collected: 05/17/22 11:00**
**Date Received: 05/18/22 08:40**

**Lab Sample ID: 880-14917-23**
**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 | 25822 | 05/18/22 14:12 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 26073 | 05/24/22 01:16 | CH | XEN MID |

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-14917-1
Project/Site: Boo Raddley SDG: 21-0105-08

## Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Texas | NELAP | T104704400-22-23 | 06-30-22 |

# Method Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 300.0 | Anions, Ion Chromatography | MCAWW | XEN MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | XEN MID |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Boo Raddley

Job ID: 880-14917-1
SDG: 21-0105-08

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-14917-11 | S-1, 15' | Solid | 05/16/22 14:00 | 05/18/22 08:40 |
| 880-14917-12 | S-1, 20' | Solid | 05/16/22 14:02 | 05/18/22 08:40 |
| 880-14917-13 | S-1, 25' | Solid | 05/16/22 14:15 | 05/18/22 08:40 |
| 880-14917-14 | S-1, 30' | Solid | 05/16/22 14:21 | 05/18/22 08:40 |
| 880-14917-15 | S-1, 35' | Solid | 05/16/22 14:30 | 05/18/22 08:40 |
| 880-14917-16 | S-1, 40' | Solid | 05/16/22 14:32 | 05/18/22 08:40 |
| 880-14917-17 | S-2, 10' | Solid | 05/17/22 09:50 | 05/18/22 08:40 |
| 880-14917-18 | S-2, 15' | Solid | 05/17/22 09:52 | 05/18/22 08:40 |
| 880-14917-19 | S-2, 20' | Solid | 05/17/22 09:54 | 05/18/22 08:40 |
| 880-14917-20 | S-2, 25' | Solid | 05/17/22 10:24 | 05/18/22 08:40 |
| 880-14917-21 | S-2, 30' | Solid | 05/17/22 10:26 | 05/18/22 08:40 |
| 880-14917-22 | PB-4, 15' | Solid | 05/17/22 10:58 | 05/18/22 08:40 |
| 880-14917-23 | PB-4, 20' | Solid | 05/17/22 11:00 | 05/18/22 08:40 |

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No. 2471

14917 CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

DATE. 5/18/2022 PAGE 1 OF 2

PO#. _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Boo Radley

LAI PROJECT #: 21-0105-08 COLLECTOR: DSG

Data Reported to

TRRP report? ☐ Yes ☒ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

TIME ZONE Time zone/State: MST/NM

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION HCl | HNO3 | H2SO4 ☐ NaOH ☐ | ICE | UNPRESSERVED | ANALYSES | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PB-11, 15' | | 5/16/22 | 1150 | S | 1 | | | | X | | | |
| PB-11, 20' | | " | 1152 | " | " | | | | " | | | |
| PB-11, 25' | | " | 1215 | " | " | | | | " | | | |
| PB-11, 30' | | " | 1217 | " | " | | | | " | | | |
| PB-11, 35' | | " | 1230 | " | " | | | | " | | | |
| PB-11, 40' | | " | 1232 | " | " | | | | " | | | |
| PB-11, 45' | | " | 1300 | " | " | | | | " | | | |
| PB-11, 50 | | " | 1302 | " | " | | | | " | | | |
| PB-11, 55' | | " | 1320 | " | " | | | | " | | | |
| PB-11, 60' | | " | 1322 | " | " | | | | " | | | |
| S-1, 15' | | " | 1400 | " | " | | | | " | | | |
| S-1, 20' | | " | 1402 | " | " | | | | " | | | |
| S-1, 25' | | " | 1415 | " | " | | | | " | | | |
| S-1, 30' | | " | 1421 | " | " | | | | " | | | |
| S-1, 35' | | " | 1430 | " | " | | | | " | | | |
| TOTAL | | | | | | | | | | | | |

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 ☐

880-14917 Chain of Custody

| | | |
|---|---|---|
| RELINQUISHED BY (Signature) | DATE/TIME 5/18/22 0840 | RECEIVED BY (Signature) |
| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) |
| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) |

LABORATORY Xenco

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP .3/1 THERM# IR8-2
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

7/7/2022 (Rev1)

Page 17 of 19

Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

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No. 2472

14917 CHAIN-OF-CUSTODY

7/7/2022 (Rev. 1)

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE 5/18/2022 PAGE 2 OF 2

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
MST/NM

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ ☐ NaOH ☐ | ICE | UNPRESSERVED | ANALYSES | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1, 40' | | 5/16/22 | 1432 | S | 1 | | | | X | | | |
| S-2, 10' | | 5/17/22 | 0950 | | | | | | | | X | |
| S-2, 15' | | | 0952 | | | | | | | | | |
| S-2, 20' | | | 0954 | | | | | | | | | |
| S-2, 25' | | | 1024 | | | | | | | | | |
| S-2, 30' | | | 1026 | | | | | | | | | |
| PB-4, 15' | | | 1058 | | | | | | | | | |
| PB-4, 20' | | | 1100 | | | | | | | | | Loc: 880 14917 |
| TOTAL | | | | | | | | | | | | |

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 ☐

| | | |
|---|---|---|
| RELINQUISHED BY (Signature) | DATE/TIME 5/18/22 0840 | RECEIVED BY (Signature) |
| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) |
| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) |

LABORATORY Xenco

**TURN AROUND TIME**
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

**LABORATORY USE ONLY:**
RECEIVING TEMP 3/.1 THERM# -2 IR6
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Received by OCD: 7/11/2022 1:07:29 PM

Released to Imaging: 7/12/2022 9:36:15 AM

# Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-14917-1
SDG Number: 21-0105-08

**Login Number: 14917**
**List Number: 1**
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

# Appendix E

# Photographs




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.




Impacted area in pasture, viewing to the south.




Impacted area in pasture, viewing to the southeast.




Impacted area in pasture, viewing to the southwest.




Impacted area in pasture, viewing to the southeast.




Impacted area in drainage, viewing to the northeast.



Impacted area in drainage, viewing to the south.



Impacted area in drainage, 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 67573

## CONDITIONS

| | |
|---|---|
| Operator:<br>SELECT ENERGY SERVICES, LLC<br>PO Box 1715<br>Gainesville, TX 76240 | OGRID:<br>289068 |
| | Action Number:<br>67573 |
| | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| rhamlet | The remediation plan is conditionally approved. The variance for the liner coupled with three (3) feet of clean soil beneath and seven (7) feet above the liner is approved for sample locations S-1 and S-2. Due to the extremely shallow groundwater and sensitive nature of the release location, remaining samples should meet the strictest closure criteria. 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. | 7/12/2022 |