State of New Mexico
Oil Conservation Division

Incident ID	nAPP2226254935
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?	>115 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2226254935
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amy Barnhill_____ Title: Environmental Advisor

Signature: _____ Date: 5-1-23_____

email: ABarnhill@chevron.com_____ Telephone: 432-687-7108_____

OCD Only

Received by: Jocelyn Harimon_____ Date: 05/01/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2226254935
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: Amy Barnhill_____ Title: Environmental Advisor_____

Signature: _____ Date: 5-1-23 _____

email: ABarnhill@chevron.com_____ Telephone: 432-687-7108_____

OCD Only

Received by: Jocelyn Harimon Date: 05/01/2023

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

Signature: _____ Date: _____

Tracking Number: nAPP2226254935
Delineation Report and Remediation Plan
Sand Dunes Pad 34
Produced Water Release
Eddy County, New Mexico

Latitude: 32.237397°
Longitude: -103.771306°

LAI Project No. 22-0105-14

April 4, 2023

Prepared for:
Chevron USA Inc.
6301 Deauville Blvd.
Midland, Texas 79706

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

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

Matthew Fuller
Staff Geologist

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Table of Contents

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Chevron USA Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (NMOCD) District I for a produced water release at the Sand Dunes Pad 34 (Site) located in Unit D, Section 10, Township 24 South, Range 31 East in Eddy New Mexico. The geodetic position is North 32.040464° and West -103.659518°.

Figure 1 presents a topographic map of the area. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on September 8, 2022, at about 08:00AM. The spill occurred due to a lay flat head fitting or clamp failure causing 75 barrels (bbls) of produced water to be released. The discharge pump lost power causing the blender tub to overflow due to the booster pump still running. Chevron reported 35 bbls of produced water were released into a lined secondary containment and 30 bbls of produced water were released to land. They also reported 10 bbls of produced water were in the blender tub. On September 20, 2022, Chevron submitted the initial C-141 to the OCD District 1 and was assigned the incident number NAPP2226254935. Appendix A presents Chevrons initial C-141 and spill calculations.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3449 feet above mean sea level (msl).
- The surface topography gradually decreases to the Northwest.
- There are no surface water features within 1,000 feet of the Site.
- Karst data provided by the USGS describes the Site as “Low Risk” potential.
- The soils are designated as Berino complex, 0 to 3 percent slopes, consisting of 0 to 17 inches of fine sand, underlain by 17 to 58 inches of sandy clay loam. The soil is overlain by the caliche that make up the pad surface.
- The geology is Quaternary age eolian sands and silts, and locally includes cover sand bedding.
- Groundwater at a depth greater than 115 feet below ground surface (bgs) based on depth to groundwater measurements 72 hours after drilling a soil bore BH-1.

Figure 3 presents an aerial map showing the boring location. Appendix B presents USGS data depicting karst risk potential. Appendix C presents the boring log (BH-1).

1.3 Remediation Standards

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

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

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

2.0 DELINEATION

On October 5, 2022, LAI personnel used a stainless-steel hand auger to collect soil samples from ten (10) locations inside of the spill area (S-1 through S-10) and in each cardinal direction (north, south, east, and west) of the spill (S-11 through S-13). The samples were collected at the surface and a depth of approximately 0.5 feet bgs. The soil samples were delivered under chain of custody and preservation to Xenco Laboratories (Xenco) in Midland, Texas, which analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35), and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively. Figure 2 presents an aerial map showing the sample locations.

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

Sample ID	Depth (feet)	TPH (mg/Kg)	Sample ID	Depth (feet)	TPH (mg/Kg)
S-1	0	882	S-4	0.5	122
S-2	0	5,340	S-5	0	163
S-2	0.5	226	S-6	0	637
S-3	0	538	S-7	0	364
S-4	0	1,530	S-8	0	7,990

Chloride exceeded the NMOCD delineation limit of 600 mg/Kg in the following samples:

Sample Id	Depth (feet)	Chloride (mg/Kg)	Sample Id	Depth (feet)	Chloride (mg/Kg)
S-1	0-.5	15,200		0.5-1	3,970
	0.5-1	7,860	S-6	0	9,940
S-2	0-.5	17,200		0.5-1	1,760
	0.5-1	3,890	S-7	0 - 0.5	2,000
S-3	0-.5	14,900		0.5-1	736
	0.5-1	1,240	S-8	0 - 0.5	6,240
S-4	0-.5	15,600	S-9	0 - 0.5	3,770
	0.5-1	4,930		0.5-1	2,620
S-5	0-.5	12,200			

On November 11, 2022, LAI personnel used a Geoprobe® 7822DT direct push rig to further delineate sample locations from (S-1 to S-10) where samples were obtained at one (1), three (3), five (5), and ten (10) feet bgs, depending on subsurface conditions. The laboratory results demonstrate the release was delineated according to the NMOCD remediation and closure requirements (19.15.29.12 NMAC Table 1) for groundwater greater than 100 feet bgs. Appendix D presents the laboratory reports.

Due to the location of the release adjacent to a Select Energy Services (Select) release (nAPP2225936815), the east horizontal delineation sample (S-27) was used to complete the west horizontal delineation at the Site. Figure 5 presents a map showing the Chevron and Select spill areas. Appendix E presents Laboratory reports for the Select release at Pad 34 (nAPP2225936815).

3.0 Remediation Plan

Chevron proposes the following remedial actions:

- Excavate soil from an area measuring approximately 1437 square feet encompassing S-8 and S-4 to a depth of one (1) foot bgs.
- Excavate soil from an area measuring approximately 660 square feet encompassing S-7 and S-10 to a depth of two (2) feet bgs.
- Excavate soil from an area measuring approximately 3511 square feet encompassing S-2, S-3, S-5, S-6, S-9 to a depth of three (3) feet bgs.
- Excavate soil from an area measuring approximately 528 square feet encompassing S-1 to a depth of 4.1 feet bgs.

- Collect five (5) point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH and chloride.
- Backfill excavation with caliche assuming achievement of NMOCD remediation levels.
- Prepare report with photographs for submittal to NMOCD District 1.

Figure 4 presents the proposed excavation areas. Appendix F presents photographs of the Site.

Tables

Table 1
Soil Sample Analytical Data Summary
Chevron - Sand Dunes Pad 34 Second Spill
Eddy County, New Mexico
32° 14' 15.23563" N, 103° 46' 17.08436" W

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)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
S-1	0	10/05/2022	In-Situ	<0.00200	<0.00400	<50.0	650	232	**882**	**15,200**
	0.5	10/05/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**7,860**
	3	11/29/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**4,620**
	5	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	2,390
	10	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	56.6
S-2	0	10/05/2022	In-Situ	<0.00198	<0.00397	<49.9	4,120	1,220	**5,340**	**17,200**
	0.5	10/05/2022	In-Situ	<0.00201	<0.00402	<49.9	226	<49.9	**226**	**3,890**
	1	11/29/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**756**
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	29.6
	5	11/29/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	33.3
	10	11/29/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	32.2
S-3	0	10/05/2022	In-Situ	<0.00200	<0.00399	<50.0	410	128	**538**	**14,900**
	0.5	10/05/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	**1,240**
	1	11/29/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**1,100**
	3	11/29/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	78.4
	5	11/29/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	17.3
	10	11/29/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	23.8
S-4	0	10/05/2022	In-Situ	<0.00200	<0.00401	<50.0	1,150	377	**1,530**	**15,600**
	0.5	10/05/2022	In-Situ	<0.00200	<0.00399	<50.0	122	<50.0	**122**	**4,930**
	1	01/18/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	239
	3	01/18/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	228
	5	11/29/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	20.6
	10	11/29/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	27.0
S-5	0	10/05/2022	In-Situ	<0.00202	<0.00403	<49.8	163	<49.8	**163**	**12,200**

Table 1
Soil Sample Analytical Data Summary
Chevron - Sand Dunes Pad 34 Second Spill
Eddy County, New Mexico
32° 14' 15.23563" N, 103° 46' 17.08436" W

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)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	0.5	10/05/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**3,970**
	1	11/29/2022	In-Situ	<0.00199	<0.00398	<49.9	83.4	<49.9	83.4	**3,320**
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	40.4
	5	11/29/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	16.9
	10	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	16.8
S-6	0	10/05/2022	In-Situ	<0.00199	<0.00398	<50.0	473	164	**637**	**9,940**
	0.5	10/05/2022	In-Situ	<0.00201	<0.00402	<50.0	72.6	<50.0	72.6	**1,760**
	1	11/29/2022	In-Situ	<0.00201	<0.00402	<49.8	76.4	<49.8	76.4	**3,620**
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	211
	5	11/29/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	21.2
	10	11/29/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	23.5
S-7	0 - 0.5	10/05/2022	In-Situ	<0.00200	<0.00401	<50.0	275	88.9	**364**	**2,000**
	1	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**736**
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	43.9
	5	11/29/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	24.3
	10	11/29/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	79.3
S-8	0 - 0.5	10/05/2022	In-Situ	<0.00200	<0.00400	71.4	7,770	152	**7,990**	**6,240**
	1	11/29/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	17.9
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	17.6
	5	11/29/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	17.5
	10	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	14.7
S-9	0 - 0.5	10/05/2022	In-Situ	<0.00401	0.187	<49.8	71.8	<49.8	71.8	**3,770**
	1	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	57.1	<50.0	57.1	**2,620**
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	77.2

Table 1
Soil Sample Analytical Data Summary
Chevron - Sand Dunes Pad 34 Second Spill
Eddy County, New Mexico
32° 14' 15.23563" N, 103° 46' 17.08436" W

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)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/10,000**
	5	11/29/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	20.4
	10	11/29/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	62.4
S-10	0 - 0.5	10/05/2022	In-Situ	<0.00199	0.00744	<49.8	64.9	<49.8	64.9	376
	1	11/29/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**892**
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	155
	5	11/29/2022	In-Situ	<0.00200	0.00492	<50.0	<50.0	<50.0	<50.0	79.4
	10	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	41.5
S-11	1	12/07/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	104
S-12	1	12/07/2022	In-Situ	<0.00199	<0.00396	<49.9	<49.9	<49.9	<49.9	78.1
S-13	0.5	01/18/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	197
S-27(nAPP2225936815)	0 - 0.5	9/15/2022	In-Situ	0.00436	0.00436	<49.9	<49.9	<49.9	<49.9	10.7

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

Figures

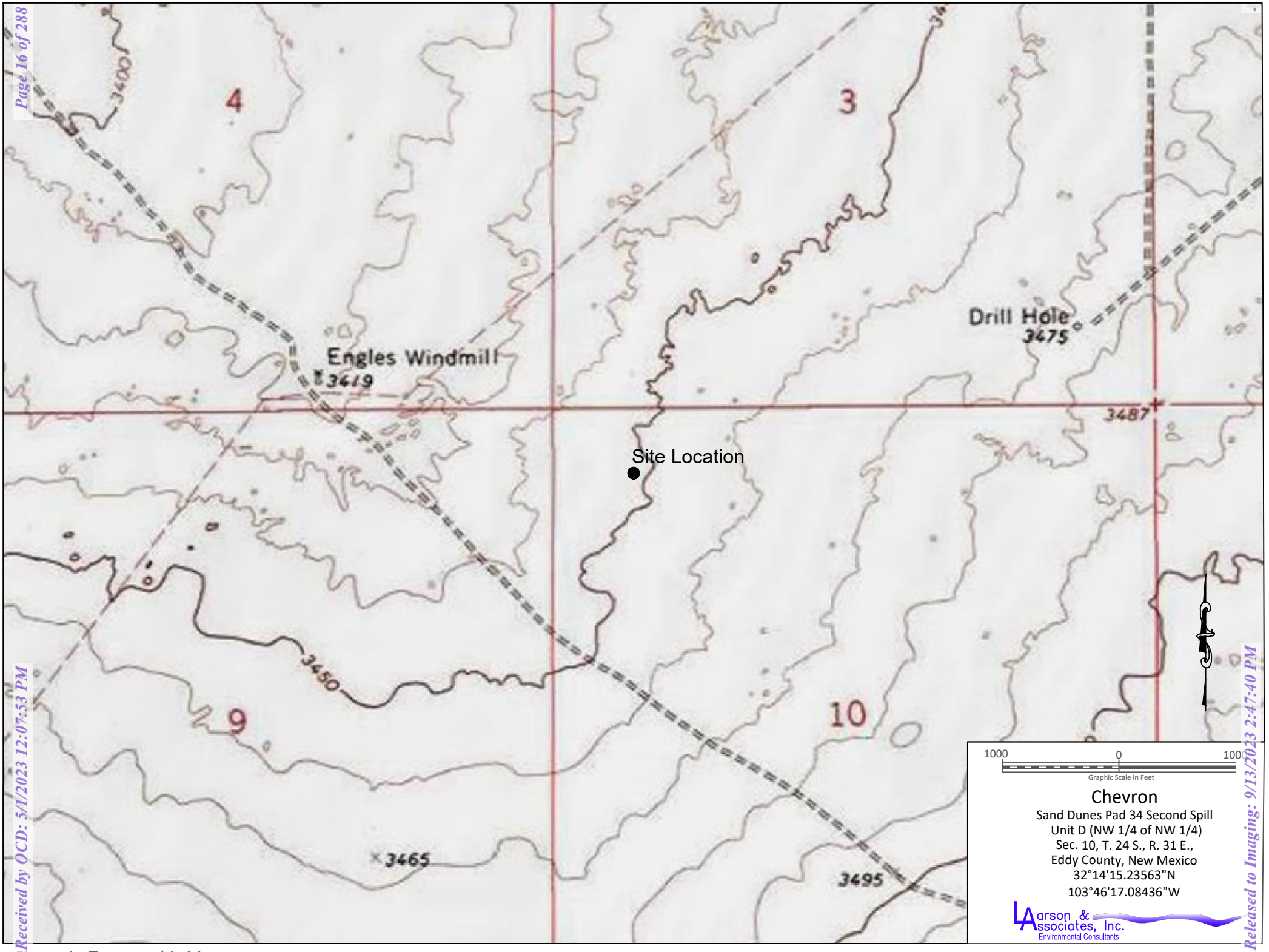

Figure 1 - Topographic Map

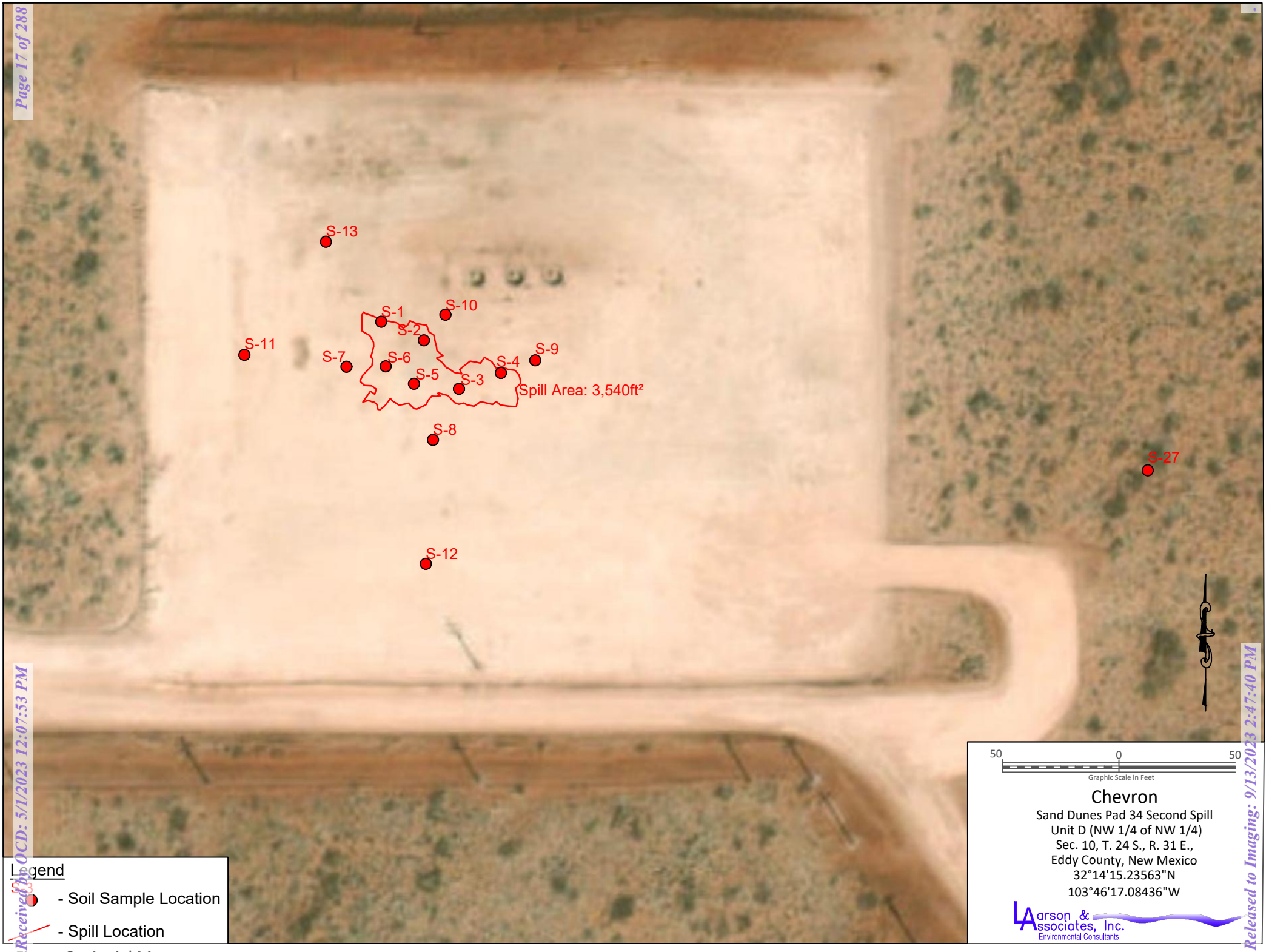

Figure 2 - Aerial Map

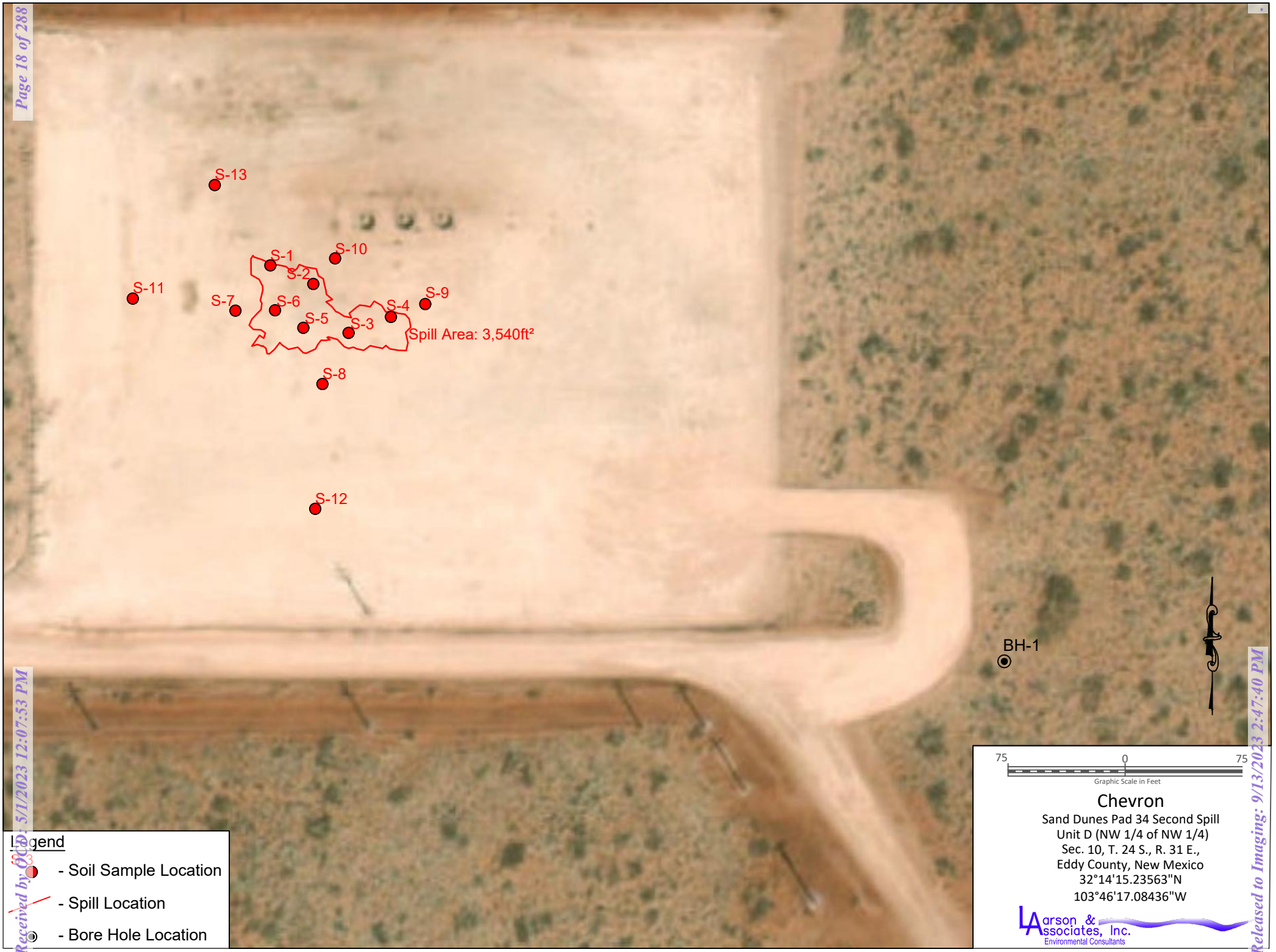

Figure 3 - Aerial Map Showing Bore Hole Location

Figure 4 - Aerial Map Showing Proposed Excavation Areas

Appendix A

Initial C-141 and Spill Calculation

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2226254935
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.237397 Longitude -103.771306
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Sand Dunes Pad 34	Site Type: Oil
Date Release Discovered: 9-8-22	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
D	10	24S	31E	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) 75	Volume Recovered (bbls) 45
	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: The discharge pump lost power to the unit and the blender tub overflowed due to the booster pump still running. 35 bbls of produced water were released into a lined secondary containment and 30 bbls of produced water were released to land. 10 bbls of produced water were in the blender tub.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2226254935
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Over 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Jessica Zemen contacted Mike Bratcher via email on 9-8-22 at 9:14 pm.	

Initial Response

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

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

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

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

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

Printed Name: Amy Barnhill Title: Water Specialist

Signature: Amy Barnhill Date: 9-19-22

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

OCD Only

Received by: Jocelyn Harimon Date: 09/20/2022

Incident ID	nAPP2226254935
District RP	
Facility ID	
Application ID	

Spill Calculations:

75-bbl produced water pumped from booster pump: -10bbl kept in tub (direct measure) – 35bbl went to secondary containment (spill calculator) – 30 bbl went to pad.

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

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 144737
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	9/20/2022

Appendix B

Karst Risk Potential Map


Sand Dunes Pad 34 Second Spill
Low

Appendix C

Boring Log

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: / Finish: DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG
	0			
	5	Sand, 3/6YR, Dark Red, Angular to Sub-angular, Poorly Sorted, Medium Sand	SP	
	10	Caliche, 8/3, Pink		
	15	Sand, 5/6, Red, Sub-rounded, Moderately Sorted, Fine Grained Quartz Sand		
	20		SM	
	25			
	30	5/6, Red, Sub-rounded, Moderately Sorted, Fine Grained Quartz Sand with 3-10mm Sub-angular Clasts		
	35			
	40			
	45	5/6, Red, Sub-rounded, Moderately Sorted, Fine Grained Quartz Sand		
	50			
	55	4/6, Red, Sub-angular, Poorly Sorted, Fine Grained Quartz Sand	SP	
	60			

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 : 03/14/2023

BORING NUMBER : BH-1

JOB NUMBER : Sand Dunes Pad 34 - 22-0104-08 22-0105-14
HOLE DIAMETER : 5"
LOCATION : 32°14'15.24"N, 103°46'17.08"W
LAI GEOLOGIST : D. St. Germain
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: / Finish: DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING (PPM X ____ ; 2 4 6 8 10 12 14 16 18)	SAMPLE NUMBER	SAMPLE PID READING	SAMPLE RECOVERY	SAMPLE DEPTH	REMARKS BACKGROUND PID READING (SOIL : ____ PPM; SOIL : ____ PPM)
	65									
	70		SP							
	75									
	80									
	85									
	90									
	95									
	100									
	105		SP							
	110									
	115	TD: 115' Dry after 72 Hours								
	120									
	125									

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

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 03/14/2023

BORING NUMBER : BH-1

JOB NUMBER : Sand Dunes Pad 34 - 22-0104-08 22-0105-14
HOLE DIAMETER : 5"
LOCATION : 32°14'15.24"N, 103°46'17.08"W
LAI GEOLOGIST : D. St. Germain
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

Appendix D

Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/19/2022 5:50:02 PM

JOB DESCRIPTION

Sand Dunes Pad 34
SDG NUMBER 22-0105-14

JOB NUMBER

880-22119-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
12/19/2022 5:50:02 PM

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

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Laboratory Job ID: 880-22119-1
SDG: 22-0105-14

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-22119-1
Project/Site: Sand Dunes Pad 34 SDG: 22-0105-14

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Job ID: 880-22119-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-22119-1

Receipt
The samples were received on 12/1/2022 8:13 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar.

No containers were received for samples 16 and 17. Robert Nelson was notified of this issue.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-40771/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-40771/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-40824 and analytical batch 880-41419 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S8 5' (880-22119-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S3 1' (880-22119-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (880-22119-A-24-B MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S2 5' (880-22119-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41187 and analytical batch 880-41218 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-41187/2-A) and (LCSD 880-41187/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S8 10' (880-22119-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S3 10' (880-22119-2), S4 10' (880-22119-3) and S9 10' (880-22119-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-22119-1
Project/Site: Sand Dunes Pad 34 SDG: 22-0105-14

Job ID: 880-22119-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S5 5' (880-22119-6), S5 1' (880-22119-8), S8 5' (880-22119-9) and S8 3' (880-22119-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S8 1' (880-22119-11), S3 5' (880-22119-12), S3 3' (880-22119-13), S3 1' (880-22119-14), S4 5' (880-22119-15), S9 5' (880-22119-18), S9 3' (880-22119-19) and S9 1' (880-22119-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41159 and analytical batch 880-41218 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-41159/2-A) and (LCSD 880-41159/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S2 10' (880-22119-21), S2 5' (880-22119-22), S2 3' (880-22119-23), S2 1' (880-22119-24), S10 10' (880-22119-25), S10 5' (880-22119-26), S10 3' (880-22119-27), S10 1' (880-22119-28), S1 10' (880-22119-29) and S1 5' (880-22119-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S1 3' (880-22119-31), S1 1' (880-22119-32), S7 10' (880-22119-33), S7 5' (880-22119-34), S7 1' (880-22119-36), S6 10' (880-22119-37), S6 5' (880-22119-38), S6 3' (880-22119-39) and S6 1' (880-22119-40). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-41187 and analytical batch 880-41218 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40969 and 880-40969 and analytical batch 880-41027 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40970 and analytical batch 880-41029 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40971 and analytical batch 880-41088 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S8 10'

Date Collected: 11/28/22 14:13
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 11:05	12/05/22 01:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 11:05	12/05/22 01:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 11:05	12/05/22 01:00	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 11:05	12/05/22 01:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 11:05	12/05/22 01:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 11:05	12/05/22 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*12/01/22 11:05*	*12/05/22 01:00*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/01/22 11:05*	*12/05/22 01:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/05/22 14:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	50.0		mg/Kg		12/06/22 15:06	12/07/22 10:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 10:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*137*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 10:58*	*1*
o-Terphenyl (Surr)	*160*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 10:58*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.7**		4.97		mg/Kg			12/07/22 01:49	1

Client Sample ID: S3 10'

Date Collected: 11/28/22 14:32
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:05	12/05/22 01:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:05	12/05/22 01:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:05	12/05/22 01:20	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/01/22 11:05	12/05/22 01:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:05	12/05/22 01:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 11:05	12/05/22 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*12/01/22 11:05*	*12/05/22 01:20*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/01/22 11:05*	*12/05/22 01:20*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S3 10'

Date Collected: 11/28/22 14:32
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/05/22 14:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 12:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 12:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*127*		*70 - 130*	*12/06/22 15:06*	*12/07/22 12:04*	*1*
o-Terphenyl (Surr)	*146*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 12:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.8**		4.95		mg/Kg			12/07/22 02:14	1

Client Sample ID: S4 10'

Date Collected: 11/28/22 15:08
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/01/22 11:05	12/05/22 01:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 11:05	12/05/22 01:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 11:05	12/05/22 01:40	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/01/22 11:05	12/05/22 01:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 11:05	12/05/22 01:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 11:05	12/05/22 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/01/22 11:05*	*12/05/22 01:40*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/01/22 11:05*	*12/05/22 01:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/05/22 14:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 12:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 12:26	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S4 10'
Date Collected: 11/28/22 15:08
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*12/06/22 15:06*	*12/07/22 12:26*	*1*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 12:26*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.0**		5.03		mg/Kg			12/07/22 02:22	1

Client Sample ID: S9 10'
Date Collected: 11/28/22 08:52
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:05	12/05/22 02:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:05	12/05/22 02:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:05	12/05/22 02:01	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/01/22 11:05	12/05/22 02:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:05	12/05/22 02:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/01/22 11:05	12/05/22 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*12/01/22 11:05*	*12/05/22 02:01*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/01/22 11:05*	*12/05/22 02:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/05/22 14:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 12:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 12:49	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*134*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 12:49*	*1*
o-Terphenyl (Surr)	*153*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 12:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.4**		5.03		mg/Kg			12/07/22 02:30	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S5 10'

Date Collected: 11/29/22 09:20
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 11:05	12/05/22 02:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 11:05	12/05/22 02:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 11:05	12/05/22 02:21	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 11:05	12/05/22 02:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 11:05	12/05/22 02:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 11:05	12/05/22 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/01/22 11:05*	*12/05/22 02:21*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/01/22 11:05*	*12/05/22 02:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/05/22 14:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 13:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 13:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*12/06/22 15:06*	*12/07/22 13:11*	*1*
o-Terphenyl (Surr)	*130*		*70 - 130*	*12/06/22 15:06*	*12/07/22 13:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.8**		5.02		mg/Kg			12/07/22 02:38	1

Client Sample ID: S5 5'

Date Collected: 11/29/22 09:19
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		12/01/22 15:55	12/09/22 12:11	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		12/01/22 15:55	12/09/22 12:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:55	12/09/22 12:11	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/01/22 15:55	12/09/22 12:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:55	12/09/22 12:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 15:55	12/09/22 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/01/22 15:55*	*12/09/22 12:11*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/01/22 15:55*	*12/09/22 12:11*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S5 5'
Date Collected: 11/29/22 09:19
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/09/22 13:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 13:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 13:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*134*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 13:33*	*1*
o-Terphenyl (Surr)	*152*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 13:33*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.9**		5.00		mg/Kg			12/04/22 12:40	1

Client Sample ID: S5 3'
Date Collected: 11/29/22 09:18
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 12:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 12:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 12:32	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 12:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 12:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*12/01/22 15:55*	*12/09/22 12:32*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*12/01/22 15:55*	*12/09/22 12:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/22 13:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/06/22 15:06	12/07/22 13:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/06/22 15:06	12/07/22 13:55	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S5 3'

Date Collected: 11/29/22 09:18
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/06/22 15:06	12/07/22 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*12/06/22 15:06*	*12/07/22 13:55*	*1*
o-Terphenyl (Surr)	*130*		*70 - 130*	*12/06/22 15:06*	*12/07/22 13:55*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.4**		5.04		mg/Kg			12/04/22 12:48	1

Client Sample ID: S5 1'

Date Collected: 11/29/22 09:17
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 12:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 12:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 12:52	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 12:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 12:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*12/01/22 15:55*	*12/09/22 12:52*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*12/01/22 15:55*	*12/09/22 12:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/22 13:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**83.4**		49.9		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 14:18	1
Diesel Range Organics (Over C10-C28)	**83.4**		49.9		mg/Kg		12/06/22 15:06	12/07/22 14:18	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*142*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 14:18*	*1*
o-Terphenyl (Surr)	*161*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 14:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3320**		24.9		mg/Kg			12/04/22 12:56	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S8 5'

Lab Sample ID: 880-22119-9
Matrix: Solid
Date Collected: 11/29/22 14:12
Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 13:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 13:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 13:13	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/01/22 15:55	12/09/22 13:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 13:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 15:55	12/09/22 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*12/01/22 15:55*	*12/09/22 13:13*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*12/01/22 15:55*	*12/09/22 13:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/09/22 13:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 14:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 14:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*12/06/22 15:06*	*12/07/22 14:40*	*1*
o-Terphenyl (Surr)	*136*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 14:40*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.5**		5.05		mg/Kg			12/07/22 03:03	1

Client Sample ID: S8 3'

Lab Sample ID: 880-22119-10
Matrix: Solid
Date Collected: 11/29/22 14:11
Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 13:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 13:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 13:34	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 13:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 13:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/01/22 15:55*	*12/09/22 13:34*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/01/22 15:55*	*12/09/22 13:34*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S8 3'

Lab Sample ID: 880-22119-10
Matrix: Solid
Date Collected: 11/29/22 14:11
Date Received: 12/01/22 08:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/22 14:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 15:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 15:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*138*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 15:02*	*1*
o-Terphenyl (Surr)	*156*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 15:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.6**		4.99		mg/Kg			12/07/22 03:11	1

Client Sample ID: S8 1'

Lab Sample ID: 880-22119-11
Matrix: Solid
Date Collected: 11/29/22 14:10
Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 13:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 13:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 13:54	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 13:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 13:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*12/01/22 15:55*	*12/09/22 13:54*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/01/22 15:55*	*12/09/22 13:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/09/22 14:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 15:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 15:47	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S8 1'
Date Collected: 11/29/22 14:10
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*139*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 15:47*	*1*
o-Terphenyl (Surr)	*158*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 15:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.9**		4.97		mg/Kg			12/07/22 03:19	1

Client Sample ID: S3 5'
Date Collected: 11/29/22 14:31
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 14:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 14:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 14:15	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/01/22 15:55	12/09/22 14:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 14:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 15:55	12/09/22 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*12/01/22 15:55*	*12/09/22 14:15*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/01/22 15:55*	*12/09/22 14:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/09/22 17:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 16:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 16:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*140*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 16:13*	*1*
o-Terphenyl (Surr)	*159*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 16:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.3**		5.01		mg/Kg			12/07/22 03:27	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S3 3'

Date Collected: 11/29/22 14:30
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:55	12/09/22 14:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:55	12/09/22 14:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:55	12/09/22 14:36	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/01/22 15:55	12/09/22 14:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:55	12/09/22 14:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 15:55	12/09/22 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*12/01/22 15:55*	*12/09/22 14:36*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/01/22 15:55*	*12/09/22 14:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/09/22 17:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 16:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 16:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*158*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 16:35*	*1*
o-Terphenyl (Surr)	*179*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 16:35*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.4**		5.00		mg/Kg			12/07/22 03:35	1

Client Sample ID: S3 1'

Date Collected: 11/29/22 14:29
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 14:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 14:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 14:57	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/01/22 15:55	12/09/22 14:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 14:57	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/01/22 15:55	12/09/22 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/01/22 15:55*	*12/09/22 14:57*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*12/01/22 15:55*	*12/09/22 14:57*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S3 1'

Date Collected: 11/29/22 14:29
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-14
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/09/22 17:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 16:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 16:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*136*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 16:57*	*1*
o-Terphenyl (Surr)	*157*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 16:57*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		5.03		mg/Kg			12/07/22 03:43	1

Client Sample ID: S4 5'

Date Collected: 11/29/22 15:07
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/01/22 15:55	12/09/22 15:17	1
Toluene	**0.00222**		0.00202		mg/Kg		12/01/22 15:55	12/09/22 15:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/01/22 15:55	12/09/22 15:17	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		12/01/22 15:55	12/09/22 15:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/01/22 15:55	12/09/22 15:17	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/01/22 15:55	12/09/22 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/01/22 15:55*	*12/09/22 15:17*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/01/22 15:55*	*12/09/22 15:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/09/22 17:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 17:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 17:19	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-22119-1
Project/Site: Sand Dunes Pad 34 SDG: 22-0105-14

Client Sample ID: S4 5' Lab Sample ID: 880-22119-15
Date Collected: 11/29/22 15:07 **Matrix: Solid**
Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*123*		*70 - 130*	*12/06/22 15:06*	*12/07/22 17:19*	*1*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 17:19*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.6**		4.95		mg/Kg			12/07/22 04:08	1

Client Sample ID: S9 5' Lab Sample ID: 880-22119-18
Date Collected: 11/29/22 08:51 **Matrix: Solid**
Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:55	12/09/22 16:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:55	12/09/22 16:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:55	12/09/22 16:40	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/01/22 15:55	12/09/22 16:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 15:55	12/09/22 16:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 15:55	12/09/22 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*12/01/22 15:55*	*12/09/22 16:40*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*12/01/22 15:55*	*12/09/22 16:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/09/22 17:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 17:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*145*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 17:41*	*1*
o-Terphenyl (Surr)	*166*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 17:41*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.4**		5.04		mg/Kg			12/07/22 04:16	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S9 3'

Date Collected: 11/29/22 08:50
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 17:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 17:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 17:01	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 17:01	1
o-Xylene	**0.00212**		0.00199		mg/Kg		12/01/22 15:55	12/09/22 17:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/01/22 15:55*	*12/09/22 17:01*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*12/01/22 15:55*	*12/09/22 17:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/12/22 15:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 18:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 15:06	12/07/22 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*12/06/22 15:06*	*12/07/22 18:03*	*1*
o-Terphenyl (Surr)	*131*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 18:03*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77.2**		4.97		mg/Kg			12/07/22 04:40	1

Client Sample ID: S9 1'

Date Collected: 11/29/22 08:49
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-20
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 17:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 17:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 17:22	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 17:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 17:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/01/22 15:55*	*12/09/22 17:22*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/01/22 15:55*	*12/09/22 17:22*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S9 1'

Date Collected: 11/29/22 08:49
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-20
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/12/22 15:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**57.1**		50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 18:25	1
Diesel Range Organics (Over C10-C28)	**57.1**		50.0		mg/Kg		12/06/22 15:06	12/07/22 18:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*12/06/22 15:06*	*12/07/22 18:25*	*1*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*	*12/06/22 15:06*	*12/07/22 18:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2620**		25.3		mg/Kg			12/07/22 04:48	5

Client Sample ID: S2 10'

Date Collected: 11/29/22 10:00
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-21
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 17:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 17:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 17:42	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/01/22 15:55	12/09/22 17:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 17:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 15:55	12/09/22 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*12/01/22 15:55*	*12/09/22 17:42*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/01/22 15:55*	*12/09/22 17:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/12/22 15:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 21:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 21:00	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S2 10'
Date Collected: 11/29/22 10:00
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-21
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*123*		*70 - 130*	*12/06/22 11:31*	*12/07/22 21:00*	*1*
o-Terphenyl (Surr)	*141*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/07/22 21:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.2**		5.02		mg/Kg			12/07/22 04:56	1

Client Sample ID: S2 5'
Date Collected: 11/29/22 09:59
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-22
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 18:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 18:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 18:03	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 18:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 18:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*23*	*S1-*	*70 - 130*	*12/01/22 15:55*	*12/09/22 18:03*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*12/01/22 15:55*	*12/09/22 18:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/12/22 15:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/07/22 22:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/07/22 22:06	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/07/22 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*124*		*70 - 130*	*12/06/22 11:31*	*12/07/22 22:06*	*1*
o-Terphenyl (Surr)	*144*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/07/22 22:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.3**		4.99		mg/Kg			12/07/22 05:05	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S2 3'

Date Collected: 11/29/22 09:58
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 18:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 18:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 18:23	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 18:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 15:55	12/09/22 18:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 15:55	12/09/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*12/01/22 15:55*	*12/09/22 18:23*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*12/01/22 15:55*	*12/09/22 18:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/12/22 15:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/07/22 22:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/07/22 22:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/07/22 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*141*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/07/22 22:28*	*1*
o-Terphenyl (Surr)	*160*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/07/22 22:28*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.6**		5.01		mg/Kg			12/07/22 05:13	1

Client Sample ID: S2 1'

Date Collected: 11/29/22 09:57
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-24
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		12/01/22 16:02	12/09/22 21:12	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		12/01/22 16:02	12/09/22 21:12	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		12/01/22 16:02	12/09/22 21:12	1
m,p-Xylenes	<0.00402	U F1	0.00402		mg/Kg		12/01/22 16:02	12/09/22 21:12	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		12/01/22 16:02	12/09/22 21:12	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		12/01/22 16:02	12/09/22 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/01/22 16:02*	*12/09/22 21:12*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/01/22 16:02*	*12/09/22 21:12*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S2 1'
Date Collected: 11/29/22 09:57
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-24
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 22:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 22:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*130*		*70 - 130*	*12/06/22 11:31*	*12/07/22 22:51*	*1*
o-Terphenyl (Surr)	*151*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/07/22 22:51*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**756**		4.98		mg/Kg			12/07/22 05:21	1

Client Sample ID: S10 10'
Date Collected: 11/29/22 09:30
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-25
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 21:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 21:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 21:32	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/09/22 21:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 21:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/09/22 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/01/22 16:02*	*12/09/22 21:32*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/01/22 16:02*	*12/09/22 21:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 23:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 23:13	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S10 10'

Date Collected: 11/29/22 09:30
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-25
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*12/06/22 11:31*	*12/07/22 23:13*	*1*
o-Terphenyl (Surr)	*136*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/07/22 23:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.5**		5.04		mg/Kg			12/07/22 05:29	1

Client Sample ID: S10 5'

Date Collected: 11/29/22 09:29
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-26
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/09/22 21:53	1
Toluene	**0.00264**		0.00200		mg/Kg		12/01/22 16:02	12/09/22 21:53	1
Ethylbenzene	**0.00228**		0.00200		mg/Kg		12/01/22 16:02	12/09/22 21:53	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/01/22 16:02	12/09/22 21:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/09/22 21:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 16:02	12/09/22 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/01/22 16:02*	*12/09/22 21:53*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/01/22 16:02*	*12/09/22 21:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00492**		0.00399		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 23:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 23:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*124*		*70 - 130*	*12/06/22 11:31*	*12/07/22 23:35*	*1*
o-Terphenyl (Surr)	*140*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/07/22 23:35*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79.4**		4.99		mg/Kg			12/07/22 11:33	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S10 3'
Date Collected: 11/29/22 09:28
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-27
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 22:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 22:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 22:13	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/09/22 22:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 22:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/09/22 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/01/22 16:02*	*12/09/22 22:13*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/01/22 16:02*	*12/09/22 22:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/06/22 11:31	12/07/22 23:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/06/22 11:31	12/07/22 23:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/06/22 11:31	12/07/22 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*12/06/22 11:31*	*12/07/22 23:56*	*1*
o-Terphenyl (Surr)	*139*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/07/22 23:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**155**		4.96		mg/Kg			12/07/22 11:53	1

Client Sample ID: S10 1'
Date Collected: 11/29/22 09:27
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-28
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/01/22 16:02	12/09/22 22:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 16:02	12/09/22 22:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 16:02	12/09/22 22:33	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/01/22 16:02	12/09/22 22:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 16:02	12/09/22 22:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 16:02	12/09/22 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/01/22 16:02*	*12/09/22 22:33*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/01/22 16:02*	*12/09/22 22:33*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S10 1'

Date Collected: 11/29/22 09:27
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-28
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/08/22 00:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/08/22 00:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/08/22 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*148*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 00:18*	*1*
o-Terphenyl (Surr)	*173*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 00:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**892**		5.01		mg/Kg			12/07/22 11:59	1

Client Sample ID: S1 10'

Date Collected: 11/29/22 10:30
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-29
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 22:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 22:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 22:54	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/09/22 22:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 22:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/09/22 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/01/22 16:02*	*12/09/22 22:54*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/01/22 16:02*	*12/09/22 22:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 00:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 00:39	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S1 10'
Date Collected: 11/29/22 10:30
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-29
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*137*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 00:39*	*1*
o-Terphenyl (Surr)	*162*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 00:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.6**		5.04		mg/Kg			12/07/22 12:06	1

Client Sample ID: S1 5'
Date Collected: 11/29/22 10:29
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-30
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 23:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 23:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 23:14	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/09/22 23:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/09/22 23:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/09/22 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/01/22 16:02*	*12/09/22 23:14*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/01/22 16:02*	*12/09/22 23:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 01:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 01:01	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*130*		*70 - 130*	*12/06/22 11:31*	*12/08/22 01:01*	*1*
o-Terphenyl (Surr)	*150*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 01:01*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2390**		25.3		mg/Kg			12/07/22 12:13	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S1 3'

Date Collected: 11/29/22 10:28
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-31
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/09/22 23:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/09/22 23:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/09/22 23:35	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/01/22 16:02	12/09/22 23:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/09/22 23:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 16:02	12/09/22 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*12/01/22 16:02*	*12/09/22 23:35*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/01/22 16:02*	*12/09/22 23:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 01:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 01:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*130*		*70 - 130*	*12/06/22 11:31*	*12/08/22 01:44*	*1*
o-Terphenyl (Surr)	*150*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 01:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4620**	**F1**	50.4		mg/Kg			12/07/22 06:34	10

Client Sample ID: S1 1'

Date Collected: 11/29/22 10:27
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-32
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/01/22 16:02	12/09/22 23:55	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/01/22 16:02	12/09/22 23:55	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/01/22 16:02	12/09/22 23:55	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		12/01/22 16:02	12/09/22 23:55	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/01/22 16:02	12/09/22 23:55	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/01/22 16:02	12/09/22 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/01/22 16:02*	*12/09/22 23:55*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/01/22 16:02*	*12/09/22 23:55*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S1 1'
Date Collected: 11/29/22 10:27
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-32
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 02:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 02:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*149*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 02:06*	*1*
o-Terphenyl (Surr)	*171*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 02:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		4.99		mg/Kg			12/07/22 06:58	1

Client Sample ID: S7 10'
Date Collected: 11/29/22 10:45
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-33
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/01/22 16:02	12/10/22 00:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 16:02	12/10/22 00:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 16:02	12/10/22 00:15	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/01/22 16:02	12/10/22 00:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 16:02	12/10/22 00:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 16:02	12/10/22 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/01/22 16:02*	*12/10/22 00:15*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/01/22 16:02*	*12/10/22 00:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 02:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 02:27	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S7 10'

Lab Sample ID: 880-22119-33
Matrix: Solid
Date Collected: 11/29/22 10:45
Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*126*		*70 - 130*	*12/06/22 11:31*	*12/08/22 02:27*	*1*
o-Terphenyl (Surr)	*146*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 02:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79.3**		4.98		mg/Kg			12/07/22 07:06	1

Client Sample ID: S7 5'

Lab Sample ID: 880-22119-34
Matrix: Solid
Date Collected: 11/29/22 10:44
Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/01/22 16:02	12/10/22 02:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/01/22 16:02	12/10/22 02:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/01/22 16:02	12/10/22 02:05	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		12/01/22 16:02	12/10/22 02:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/01/22 16:02	12/10/22 02:05	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/01/22 16:02	12/10/22 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/01/22 16:02*	*12/10/22 02:05*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/01/22 16:02*	*12/10/22 02:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 02:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 02:49	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*138*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 02:49*	*1*
o-Terphenyl (Surr)	*157*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 02:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.3**		4.95		mg/Kg			12/07/22 07:15	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S7 3'

Date Collected: 11/29/22 10:43
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-35
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/10/22 02:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/10/22 02:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/10/22 02:25	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/10/22 02:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/10/22 02:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/10/22 02:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/01/22 16:02*	*12/10/22 02:25*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/01/22 16:02*	*12/10/22 02:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 03:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 03:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*12/06/22 11:31*	*12/08/22 03:10*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*12/06/22 11:31*	*12/08/22 03:10*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.9**		5.01		mg/Kg			12/07/22 07:23	1

Client Sample ID: S7 1'

Date Collected: 11/29/22 10:42
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-36
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/10/22 02:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/10/22 02:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/10/22 02:46	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/10/22 02:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/10/22 02:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/10/22 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*12/01/22 16:02*	*12/10/22 02:46*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/01/22 16:02*	*12/10/22 02:46*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S7 1'
Date Collected: 11/29/22 10:42
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-36
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 03:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 03:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*139*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 03:32*	*1*
o-Terphenyl (Surr)	*166*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 03:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**736**		4.97		mg/Kg			12/07/22 09:17	1

Client Sample ID: S6 10'
Date Collected: 11/29/22 11:10
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-37
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/10/22 03:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/10/22 03:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/10/22 03:06	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/01/22 16:02	12/10/22 03:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/10/22 03:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/01/22 16:02	12/10/22 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*12/01/22 16:02*	*12/10/22 03:06*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/01/22 16:02*	*12/10/22 03:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/08/22 03:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/08/22 03:53	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S6 10'

Date Collected: 11/29/22 11:10
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-37
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/08/22 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*135*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 03:53*	*1*
o-Terphenyl (Surr)	*157*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 03:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.5**		4.98		mg/Kg			12/07/22 09:25	1

Client Sample ID: S6 5'

Date Collected: 11/29/22 11:09
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-38
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/01/22 16:02	12/10/22 03:27	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/01/22 16:02	12/10/22 03:27	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/01/22 16:02	12/10/22 03:27	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		12/01/22 16:02	12/10/22 03:27	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/01/22 16:02	12/10/22 03:27	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/01/22 16:02	12/10/22 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/01/22 16:02*	*12/10/22 03:27*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/01/22 16:02*	*12/10/22 03:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 04:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 04:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/08/22 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*132*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 04:15*	*1*
o-Terphenyl (Surr)	*150*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 04:15*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.2**		5.05		mg/Kg			12/07/22 09:33	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S6 3'

Date Collected: 11/29/22 11:08
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-39
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/10/22 03:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/10/22 03:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/10/22 03:47	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/10/22 03:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/22 16:02	12/10/22 03:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/22 16:02	12/10/22 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*12/01/22 16:02*	*12/10/22 03:47*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/01/22 16:02*	*12/10/22 03:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/08/22 04:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/08/22 04:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/22 11:31	12/08/22 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*135*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 04:36*	*1*
o-Terphenyl (Surr)	*159*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 04:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**211**		5.03		mg/Kg			12/07/22 09:41	1

Client Sample ID: S6 1'

Date Collected: 11/29/22 11:07
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-40
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/01/22 16:02	12/10/22 04:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/22 16:02	12/10/22 04:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/22 16:02	12/10/22 04:07	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/01/22 16:02	12/10/22 04:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/22 16:02	12/10/22 04:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/22 16:02	12/10/22 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*12/01/22 16:02*	*12/10/22 04:07*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/01/22 16:02*	*12/10/22 04:07*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S6 1'

Date Collected: 11/29/22 11:07
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-40

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/12/22 15:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**76.4**		49.8		mg/Kg			12/08/22 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/06/22 11:31	12/08/22 04:58	1
Diesel Range Organics (Over C10-C28)	**76.4**		49.8		mg/Kg		12/06/22 11:31	12/08/22 04:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/06/22 11:31	12/08/22 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*131*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 04:58*	*1*
o-Terphenyl (Surr)	*152*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/08/22 04:58*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3620**	**F1**	25.2		mg/Kg			12/07/22 17:45	5

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

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)										
880-22119-1	S8 10'	74	102										
880-22119-2	S3 10'	82	101										
880-22119-3	S4 10'	89	99										
880-22119-4	S9 10'	77	105										
880-22119-5	S5 10'	95	110										
880-22119-6	S5 5'	113	105										
880-22119-6 MS	S5 5'	95	96										
880-22119-6 MSD	S5 5'	111	82										
880-22119-7	S5 3'	120	114										
880-22119-8	S5 1'	119	78										
880-22119-9	S8 5'	133 S1+	85										
880-22119-10	S8 3'	112	92										
880-22119-11	S8 1'	119	102										
880-22119-12	S3 5'	125	102										
880-22119-13	S3 3'	128	102										
880-22119-14	S3 1'	89	69 S1-										
880-22119-15	S4 5'	109	99										
880-22119-18	S9 5'	118	89										
880-22119-19	S9 3'	109	88										
880-22119-20	S9 1'	117	92										
880-22119-21	S2 10'	118	100										
880-22119-22	S2 5'	23 S1-	74										
880-22119-23	S2 3'	127	87										
880-22119-24	S2 1'	86	99										
880-22119-24 MS	S2 1'	84	94										
880-22119-24 MSD	S2 1'	79	98										
880-22119-25	S10 10'	94	92										
880-22119-26	S10 5'	95	103										
880-22119-27	S10 3'	103	96										
880-22119-28	S10 1'	117	105										
880-22119-29	S1 10'	107	98										
880-22119-30	S1 5'	117	106										
880-22119-31	S1 3'	123	107										
880-22119-32	S1 1'	109	97										
880-22119-33	S7 10'	117	99										
880-22119-34	S7 5'	87	97										
880-22119-35	S7 3'	103	92										
880-22119-36	S7 1'	119	106										
880-22119-37	S6 10'	114	96										
880-22119-38	S6 5'	109	94										
880-22119-39	S6 3'	120	104										
880-22119-40	S6 1'	96	98										
LCS 880-40771/1-A	Lab Control Sample	75	99										
LCS 880-40824/1-A	Lab Control Sample	97	93										
LCS 880-40826/1-A	Lab Control Sample	99	101										
LCSD 880-40771/2-A	Lab Control Sample Dup	68 S1-	97										
LCSD 880-40824/2-A	Lab Control Sample Dup	105	93										
LCSD 880-40826/2-A	Lab Control Sample Dup	106	104										
MB 880-40771/5-A	Method Blank	66 S1-	108										

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-22119-1
Project/Site: Sand Dunes Pad 34 SDG: 22-0105-14

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
MB 880-40824/5-A	Method Blank	102	88
MB 880-40826/5-A	Method Blank	77	94

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-22119-1	S8 10'	137 S1+	160 S1+
880-22119-1 MS	S8 10'	124	128
880-22119-1 MSD	S8 10'	115	118
880-22119-2	S3 10'	127	146 S1+
880-22119-3	S4 10'	121	142 S1+
880-22119-4	S9 10'	134 S1+	153 S1+
880-22119-5	S5 10'	112	130
880-22119-6	S5 5'	134 S1+	152 S1+
880-22119-7	S5 3'	114	130
880-22119-8	S5 1'	142 S1+	161 S1+
880-22119-9	S8 5'	120	136 S1+
880-22119-10	S8 3'	138 S1+	156 S1+
880-22119-11	S8 1'	139 S1+	158 S1+
880-22119-12	S3 5'	140 S1+	159 S1+
880-22119-13	S3 3'	158 S1+	179 S1+
880-22119-14	S3 1'	136 S1+	157 S1+
880-22119-15	S4 5'	123	142 S1+
880-22119-18	S9 5'	145 S1+	166 S1+
880-22119-19	S9 3'	114	131 S1+
880-22119-20	S9 1'	115	132 S1+
880-22119-21	S2 10'	123	141 S1+
880-22119-21 MS	S2 10'	105	110
880-22119-21 MSD	S2 10'	104	109
880-22119-22	S2 5'	124	144 S1+
880-22119-23	S2 3'	141 S1+	160 S1+
880-22119-24	S2 1'	130	151 S1+
880-22119-25	S10 10'	115	136 S1+
880-22119-26	S10 5'	124	140 S1+
880-22119-27	S10 3'	117	139 S1+
880-22119-28	S10 1'	148 S1+	173 S1+
880-22119-29	S1 10'	137 S1+	162 S1+
880-22119-30	S1 5'	130	150 S1+
880-22119-31	S1 3'	130	150 S1+
880-22119-32	S1 1'	149 S1+	171 S1+
880-22119-33	S7 10'	126	146 S1+
880-22119-34	S7 5'	138 S1+	157 S1+
880-22119-35	S7 3'	96	109
880-22119-36	S7 1'	139 S1+	166 S1+

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-22119-1
Project/Site: Sand Dunes Pad 34 SDG: 22-0105-14

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-22119-37	S6 10'	135 S1+	157 S1+
880-22119-38	S6 5'	132 S1+	150 S1+
880-22119-39	S6 3'	135 S1+	159 S1+
880-22119-40	S6 1'	131 S1+	152 S1+
LCS 880-41159/2-A	Lab Control Sample	177 S1+	202 S1+
LCS 880-41187/2-A	Lab Control Sample	157 S1+	182 S1+
LCSD 880-41159/3-A	Lab Control Sample Dup	186 S1+	209 S1+
LCSD 880-41187/3-A	Lab Control Sample Dup	153 S1+	181 S1+
MB 880-41159/1-A	Method Blank	130	156 S1+
MB 880-41187/1-A	Method Blank	119	145 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40771/5-A
Matrix: Solid
Analysis Batch: 40980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40771

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:05	12/04/22 18:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:05	12/04/22 18:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:05	12/04/22 18:55	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/01/22 11:05	12/04/22 18:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 11:05	12/04/22 18:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/22 11:05	12/04/22 18:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*12/01/22 11:05*	*12/04/22 18:55*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/01/22 11:05*	*12/04/22 18:55*	*1*

Lab Sample ID: LCS 880-40771/1-A
Matrix: Solid
Analysis Batch: 40980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40771

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09203		mg/Kg		92	70 - 130		
Toluene			0.100	0.1093		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1033		mg/Kg		103	70 - 130		
m,p-Xylenes			0.200	0.1809		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.08685		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-40771/2-A
Matrix: Solid
Analysis Batch: 40980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40771

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08920		mg/Kg		89	70 - 130	3	35
Toluene			0.100	0.1090		mg/Kg		109	70 - 130	0	35
Ethylbenzene			0.100	0.1045		mg/Kg		105	70 - 130	1	35
m,p-Xylenes			0.200	0.1820		mg/Kg		91	70 - 130	1	35
o-Xylene			0.100	0.08648		mg/Kg		86	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-40824/5-A
Matrix: Solid
Analysis Batch: 41419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40824

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 11:49	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

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

Lab Sample ID: MB 880-40824/5-A
Matrix: Solid
Analysis Batch: 41419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40824

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 11:49	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/01/22 15:55	12/09/22 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 15:55	12/09/22 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/22 15:55	12/09/22 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/01/22 15:55*	*12/09/22 11:49*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*12/01/22 15:55*	*12/09/22 11:49*	*1*

Lab Sample ID: LCS 880-40824/1-A
Matrix: Solid
Analysis Batch: 41419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40824

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1081		mg/Kg		108	70 - 130		
Toluene			0.100	0.1037		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.09481		mg/Kg		95	70 - 130		
m,p-Xylenes			0.200	0.2010		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1037		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-40824/2-A
Matrix: Solid
Analysis Batch: 41419

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40824

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1088		mg/Kg		109	70 - 130	1	35
Toluene			0.100	0.1020		mg/Kg		102	70 - 130	2	35
Ethylbenzene			0.100	0.1000		mg/Kg		100	70 - 130	5	35
m,p-Xylenes			0.200	0.2153		mg/Kg		108	70 - 130	7	35
o-Xylene			0.100	0.1047		mg/Kg		105	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-22119-6 MS
Matrix: Solid
Analysis Batch: 41419

Client Sample ID: S5 5'
Prep Type: Total/NA
Prep Batch: 40824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1	0.0996	0.07632		mg/Kg		75	70 - 130		
Toluene	<0.00201	U F1	0.0996	0.07199		mg/Kg		72	70 - 130		
Ethylbenzene	<0.00201	U	0.0996	0.07077		mg/Kg		70	70 - 130		
m,p-Xylenes	<0.00402	U	0.199	0.1552		mg/Kg		78	70 - 130		

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

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

Lab Sample ID: 880-22119-6 MS
Matrix: Solid
Analysis Batch: 41419

Client Sample ID: S5 5'
Prep Type: Total/NA
Prep Batch: 40824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00201	U	0.0996	0.08169		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-22119-6 MSD
Matrix: Solid
Analysis Batch: 41419

Client Sample ID: S5 5'
Prep Type: Total/NA
Prep Batch: 40824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0990	0.05892	F1	mg/Kg		58	70 - 130	26	35
Toluene	<0.00201	U F1	0.0990	0.05582	F1	mg/Kg		56	70 - 130	25	35
Ethylbenzene	<0.00201	U	0.0990	0.07497		mg/Kg		75	70 - 130	6	35
m,p-Xylenes	<0.00402	U	0.198	0.1563		mg/Kg		79	70 - 130	1	35
o-Xylene	<0.00201	U	0.0990	0.08015		mg/Kg		81	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: MB 880-40826/5-A
Matrix: Solid
Analysis Batch: 41499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40826

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/09/22 20:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/09/22 20:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/09/22 20:43	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/01/22 16:02	12/09/22 20:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/22 16:02	12/09/22 20:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/22 16:02	12/09/22 20:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*12/01/22 16:02*	*12/09/22 20:43*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/01/22 16:02*	*12/09/22 20:43*	*1*

Lab Sample ID: LCS 880-40826/1-A
Matrix: Solid
Analysis Batch: 41499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1015		mg/Kg		102	70 - 130
Toluene	0.100	0.08806		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09021		mg/Kg		90	70 - 130
m,p-Xylenes	0.200	0.1860		mg/Kg		93	70 - 130
o-Xylene	0.100	0.08888		mg/Kg		89	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

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

Lab Sample ID: LCS 880-40826/1-A
Matrix: Solid
Analysis Batch: 41499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40826

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-40826/2-A
Matrix: Solid
Analysis Batch: 41499

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40826

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08696		mg/Kg		87	70 - 130	15	35
Toluene			0.100	0.07710		mg/Kg		77	70 - 130	13	35
Ethylbenzene			0.100	0.07744		mg/Kg		77	70 - 130	15	35
m,p-Xylenes			0.200	0.1595		mg/Kg		80	70 - 130	15	35
o-Xylene			0.100	0.07872		mg/Kg		79	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-22119-24 MS
Matrix: Solid
Analysis Batch: 41499

Client Sample ID: S2 1'
Prep Type: Total/NA
Prep Batch: 40826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1	0.0996	0.07621		mg/Kg		77	70 - 130		
Toluene	<0.00201	U F1	0.0996	0.07270		mg/Kg		72	70 - 130		
Ethylbenzene	<0.00201	U F1	0.0996	0.07630		mg/Kg		77	70 - 130		
m,p-Xylenes	<0.00402	U F1	0.199	0.1557		mg/Kg		78	70 - 130		
o-Xylene	<0.00201	U F1	0.0996	0.07310		mg/Kg		73	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-22119-24 MSD
Matrix: Solid
Analysis Batch: 41499

Client Sample ID: S2 1'
Prep Type: Total/NA
Prep Batch: 40826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00201	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00201	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
m,p-Xylenes	<0.00402	U F1	0.198	<0.00396	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00201	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	79		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

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

Lab Sample ID: MB 880-41159/1-A
Matrix: Solid
Analysis Batch: 41218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41159

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		12/06/22 11:31	12/07/22 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 19:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 11:31	12/07/22 19:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*130*		*70 - 130*	*12/06/22 11:31*	*12/07/22 19:53*	*1*
o-Terphenyl (Surr)	*156*	*S1+*	*70 - 130*	*12/06/22 11:31*	*12/07/22 19:53*	*1*

Lab Sample ID: LCS 880-41159/2-A
Matrix: Solid
Analysis Batch: 41218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41159

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	980.1		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1112		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*177*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*202*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-41159/3-A
Matrix: Solid
Analysis Batch: 41218

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41159

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	978.8		mg/Kg		98	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1143		mg/Kg		114	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*186*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*209*	*S1+*	*70 - 130*

Lab Sample ID: 880-22119-21 MS
Matrix: Solid
Analysis Batch: 41218

Client Sample ID: S2 10'
Prep Type: Total/NA
Prep Batch: 41159

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	907.9		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1059		mg/Kg		106	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

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

Lab Sample ID: 880-22119-21 MS
Matrix: Solid
Analysis Batch: 41218

Client Sample ID: S2 10'
Prep Type: Total/NA
Prep Batch: 41159

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	105		70 - 130
o-Terphenyl (Surr)	110		70 - 130

Lab Sample ID: 880-22119-21 MSD
Matrix: Solid
Analysis Batch: 41218

Client Sample ID: S2 10'
Prep Type: Total/NA
Prep Batch: 41159

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	888.3		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1030		mg/Kg		103	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: MB 880-41187/1-A
Matrix: Solid
Analysis Batch: 41218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41187

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		12/06/22 15:06	12/07/22 08:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 08:21	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/22 15:06	12/07/22 08:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130	12/06/22 15:06	12/07/22 08:21	1
o-Terphenyl (Surr)	145	S1+	70 - 130	12/06/22 15:06	12/07/22 08:21	1

Lab Sample ID: LCS 880-41187/2-A
Matrix: Solid
Analysis Batch: 41218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41187

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	883.0		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	948.5		mg/Kg		95	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	157	S1+	70 - 130
o-Terphenyl (Surr)	182	S1+	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

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

Lab Sample ID: LCSD 880-41187/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 41218 — **Prep Batch: 41187**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	913.7		mg/Kg		91	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	923.1		mg/Kg		92	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*153*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*181*	*S1+*	*70 - 130*

Lab Sample ID: 880-22119-1 MS — **Client Sample ID: S8 10'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 41218 — **Prep Batch: 41187**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	999	1236		mg/Kg		124	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1243		mg/Kg		124	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*124*		*70 - 130*
o-Terphenyl (Surr)	*128*		*70 - 130*

Lab Sample ID: 880-22119-1 MSD — **Client Sample ID: S8 10'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 41218 — **Prep Batch: 41187**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	997	992.7	F2	mg/Kg		100	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1153		mg/Kg		116	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*115*		*70 - 130*
o-Terphenyl (Surr)	*118*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40834/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 40952

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/04/22 11:43	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-40834/2-A
Matrix: Solid
Analysis Batch: 40952

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.9		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-40834/3-A
Matrix: Solid
Analysis Batch: 40952

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	251.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-40969/1-A
Matrix: Solid
Analysis Batch: 41027

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			12/07/22 01:25	1

Lab Sample ID: LCS 880-40969/2-A
Matrix: Solid
Analysis Batch: 41027

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	242.2		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-40969/3-A
Matrix: Solid
Analysis Batch: 41027

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	244.6		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-22119-1 MS
Matrix: Solid
Analysis Batch: 41027

Client Sample ID: S8 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	14.7		249	257.1		mg/Kg		98	90 - 110		

Lab Sample ID: 880-22119-1 MSD
Matrix: Solid
Analysis Batch: 41027

Client Sample ID: S8 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14.7		249	257.4		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-22119-14 MS
Matrix: Solid
Analysis Batch: 41027

Client Sample ID: S3 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1100		252	1291	4	mg/Kg		74	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-22119-14 MSD — **Client Sample ID: S3 1'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41027

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1100		252	1291	4	mg/Kg		74	90 - 110	0	20

Lab Sample ID: MB 880-40967/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41028

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/07/22 11:13	1

Lab Sample ID: LCS 880-40967/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41028

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	262.2		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-40967/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41028

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	263.1		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-22119-26 MS — **Client Sample ID: S10 5'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	79.4		250	342.5		mg/Kg		105	90 - 110		

Lab Sample ID: 880-22119-26 MSD — **Client Sample ID: S10 5'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	79.4		250	343.3		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-40970/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41029

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/07/22 06:10	1

Lab Sample ID: LCS 880-40970/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41029

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.0		mg/Kg		98	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-40970/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41029

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	246.2		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-22119-31 MS — **Client Sample ID: S1 3'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4620	F1	2520	7521	F1	mg/Kg		115	90 - 110		

Lab Sample ID: 880-22119-31 MSD — **Client Sample ID: S1 3'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4620	F1	2520	7288		mg/Kg		106	90 - 110	3	20

Lab Sample ID: MB 880-40971/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41088

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/07/22 17:20	1

Lab Sample ID: LCS 880-40971/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41088

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.3		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-40971/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41088

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	246.8		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-22119-40 MS — **Client Sample ID: S6 1'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41088

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3620	F1	1260	4983		mg/Kg		108	90 - 110		

Lab Sample ID: 880-22119-40 MSD — **Client Sample ID: S6 1'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41088

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3620	F1	1260	5125	F1	mg/Kg		120	90 - 110	3	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

GC VOA

Prep Batch: 40771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Total/NA	Solid	5035	
880-22119-2	S3 10'	Total/NA	Solid	5035	
880-22119-3	S4 10'	Total/NA	Solid	5035	
880-22119-4	S9 10'	Total/NA	Solid	5035	
880-22119-5	S5 10'	Total/NA	Solid	5035	
MB 880-40771/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40771/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40771/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 40824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-6	S5 5'	Total/NA	Solid	5035	
880-22119-7	S5 3'	Total/NA	Solid	5035	
880-22119-8	S5 1'	Total/NA	Solid	5035	
880-22119-9	S8 5'	Total/NA	Solid	5035	
880-22119-10	S8 3'	Total/NA	Solid	5035	
880-22119-11	S8 1'	Total/NA	Solid	5035	
880-22119-12	S3 5'	Total/NA	Solid	5035	
880-22119-13	S3 3'	Total/NA	Solid	5035	
880-22119-14	S3 1'	Total/NA	Solid	5035	
880-22119-15	S4 5'	Total/NA	Solid	5035	
880-22119-18	S9 5'	Total/NA	Solid	5035	
880-22119-19	S9 3'	Total/NA	Solid	5035	
880-22119-20	S9 1'	Total/NA	Solid	5035	
880-22119-21	S2 10'	Total/NA	Solid	5035	
880-22119-22	S2 5'	Total/NA	Solid	5035	
880-22119-23	S2 3'	Total/NA	Solid	5035	
MB 880-40824/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40824/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40824/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22119-6 MS	S5 5'	Total/NA	Solid	5035	
880-22119-6 MSD	S5 5'	Total/NA	Solid	5035	

Prep Batch: 40826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-24	S2 1'	Total/NA	Solid	5035	
880-22119-25	S10 10'	Total/NA	Solid	5035	
880-22119-26	S10 5'	Total/NA	Solid	5035	
880-22119-27	S10 3'	Total/NA	Solid	5035	
880-22119-28	S10 1'	Total/NA	Solid	5035	
880-22119-29	S1 10'	Total/NA	Solid	5035	
880-22119-30	S1 5'	Total/NA	Solid	5035	
880-22119-31	S1 3'	Total/NA	Solid	5035	
880-22119-32	S1 1'	Total/NA	Solid	5035	
880-22119-33	S7 10'	Total/NA	Solid	5035	
880-22119-34	S7 5'	Total/NA	Solid	5035	
880-22119-35	S7 3'	Total/NA	Solid	5035	
880-22119-36	S7 1'	Total/NA	Solid	5035	
880-22119-37	S6 10'	Total/NA	Solid	5035	
880-22119-38	S6 5'	Total/NA	Solid	5035	
880-22119-39	S6 3'	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

GC VOA (Continued)

Prep Batch: 40826 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-40	S6 1'	Total/NA	Solid	5035	
MB 880-40826/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40826/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40826/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22119-24 MS	S2 1'	Total/NA	Solid	5035	
880-22119-24 MSD	S2 1'	Total/NA	Solid	5035	

Analysis Batch: 40980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Total/NA	Solid	8021B	40771
880-22119-2	S3 10'	Total/NA	Solid	8021B	40771
880-22119-3	S4 10'	Total/NA	Solid	8021B	40771
880-22119-4	S9 10'	Total/NA	Solid	8021B	40771
880-22119-5	S5 10'	Total/NA	Solid	8021B	40771
MB 880-40771/5-A	Method Blank	Total/NA	Solid	8021B	40771
LCS 880-40771/1-A	Lab Control Sample	Total/NA	Solid	8021B	40771
LCSD 880-40771/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40771

Analysis Batch: 41073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Total/NA	Solid	Total BTEX	
880-22119-2	S3 10'	Total/NA	Solid	Total BTEX	
880-22119-3	S4 10'	Total/NA	Solid	Total BTEX	
880-22119-4	S9 10'	Total/NA	Solid	Total BTEX	
880-22119-5	S5 10'	Total/NA	Solid	Total BTEX	
880-22119-6	S5 5'	Total/NA	Solid	Total BTEX	
880-22119-7	S5 3'	Total/NA	Solid	Total BTEX	
880-22119-8	S5 1'	Total/NA	Solid	Total BTEX	
880-22119-9	S8 5'	Total/NA	Solid	Total BTEX	
880-22119-10	S8 3'	Total/NA	Solid	Total BTEX	
880-22119-11	S8 1'	Total/NA	Solid	Total BTEX	
880-22119-12	S3 5'	Total/NA	Solid	Total BTEX	
880-22119-13	S3 3'	Total/NA	Solid	Total BTEX	
880-22119-14	S3 1'	Total/NA	Solid	Total BTEX	
880-22119-15	S4 5'	Total/NA	Solid	Total BTEX	
880-22119-18	S9 5'	Total/NA	Solid	Total BTEX	
880-22119-19	S9 3'	Total/NA	Solid	Total BTEX	
880-22119-20	S9 1'	Total/NA	Solid	Total BTEX	
880-22119-21	S2 10'	Total/NA	Solid	Total BTEX	
880-22119-22	S2 5'	Total/NA	Solid	Total BTEX	
880-22119-23	S2 3'	Total/NA	Solid	Total BTEX	
880-22119-24	S2 1'	Total/NA	Solid	Total BTEX	
880-22119-25	S10 10'	Total/NA	Solid	Total BTEX	
880-22119-26	S10 5'	Total/NA	Solid	Total BTEX	
880-22119-27	S10 3'	Total/NA	Solid	Total BTEX	
880-22119-28	S10 1'	Total/NA	Solid	Total BTEX	
880-22119-29	S1 10'	Total/NA	Solid	Total BTEX	
880-22119-30	S1 5'	Total/NA	Solid	Total BTEX	
880-22119-31	S1 3'	Total/NA	Solid	Total BTEX	
880-22119-32	S1 1'	Total/NA	Solid	Total BTEX	
880-22119-33	S7 10'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

GC VOA (Continued)

Analysis Batch: 41073 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-34	S7 5'	Total/NA	Solid	Total BTEX	
880-22119-35	S7 3'	Total/NA	Solid	Total BTEX	
880-22119-36	S7 1'	Total/NA	Solid	Total BTEX	
880-22119-37	S6 10'	Total/NA	Solid	Total BTEX	
880-22119-38	S6 5'	Total/NA	Solid	Total BTEX	
880-22119-39	S6 3'	Total/NA	Solid	Total BTEX	
880-22119-40	S6 1'	Total/NA	Solid	Total BTEX	

Analysis Batch: 41419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-6	S5 5'	Total/NA	Solid	8021B	40824
880-22119-7	S5 3'	Total/NA	Solid	8021B	40824
880-22119-8	S5 1'	Total/NA	Solid	8021B	40824
880-22119-9	S8 5'	Total/NA	Solid	8021B	40824
880-22119-10	S8 3'	Total/NA	Solid	8021B	40824
880-22119-11	S8 1'	Total/NA	Solid	8021B	40824
880-22119-12	S3 5'	Total/NA	Solid	8021B	40824
880-22119-13	S3 3'	Total/NA	Solid	8021B	40824
880-22119-14	S3 1'	Total/NA	Solid	8021B	40824
880-22119-15	S4 5'	Total/NA	Solid	8021B	40824
880-22119-18	S9 5'	Total/NA	Solid	8021B	40824
880-22119-19	S9 3'	Total/NA	Solid	8021B	40824
880-22119-20	S9 1'	Total/NA	Solid	8021B	40824
880-22119-21	S2 10'	Total/NA	Solid	8021B	40824
880-22119-22	S2 5'	Total/NA	Solid	8021B	40824
880-22119-23	S2 3'	Total/NA	Solid	8021B	40824
MB 880-40824/5-A	Method Blank	Total/NA	Solid	8021B	40824
LCS 880-40824/1-A	Lab Control Sample	Total/NA	Solid	8021B	40824
LCSD 880-40824/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40824
880-22119-6 MS	S5 5'	Total/NA	Solid	8021B	40824
880-22119-6 MSD	S5 5'	Total/NA	Solid	8021B	40824

Analysis Batch: 41499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-24	S2 1'	Total/NA	Solid	8021B	40826
880-22119-25	S10 10'	Total/NA	Solid	8021B	40826
880-22119-26	S10 5'	Total/NA	Solid	8021B	40826
880-22119-27	S10 3'	Total/NA	Solid	8021B	40826
880-22119-28	S10 1'	Total/NA	Solid	8021B	40826
880-22119-29	S1 10'	Total/NA	Solid	8021B	40826
880-22119-30	S1 5'	Total/NA	Solid	8021B	40826
880-22119-31	S1 3'	Total/NA	Solid	8021B	40826
880-22119-32	S1 1'	Total/NA	Solid	8021B	40826
880-22119-33	S7 10'	Total/NA	Solid	8021B	40826
880-22119-34	S7 5'	Total/NA	Solid	8021B	40826
880-22119-35	S7 3'	Total/NA	Solid	8021B	40826
880-22119-36	S7 1'	Total/NA	Solid	8021B	40826
880-22119-37	S6 10'	Total/NA	Solid	8021B	40826
880-22119-38	S6 5'	Total/NA	Solid	8021B	40826
880-22119-39	S6 3'	Total/NA	Solid	8021B	40826
880-22119-40	S6 1'	Total/NA	Solid	8021B	40826

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

GC VOA (Continued)

Analysis Batch: 41499 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40826/5-A	Method Blank	Total/NA	Solid	8021B	40826
LCS 880-40826/1-A	Lab Control Sample	Total/NA	Solid	8021B	40826
LCSD 880-40826/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40826
880-22119-24 MS	S2 1'	Total/NA	Solid	8021B	40826
880-22119-24 MSD	S2 1'	Total/NA	Solid	8021B	40826

GC Semi VOA

Prep Batch: 41159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-21	S2 10'	Total/NA	Solid	8015NM Prep	
880-22119-22	S2 5'	Total/NA	Solid	8015NM Prep	
880-22119-23	S2 3'	Total/NA	Solid	8015NM Prep	
880-22119-24	S2 1'	Total/NA	Solid	8015NM Prep	
880-22119-25	S10 10'	Total/NA	Solid	8015NM Prep	
880-22119-26	S10 5'	Total/NA	Solid	8015NM Prep	
880-22119-27	S10 3'	Total/NA	Solid	8015NM Prep	
880-22119-28	S10 1'	Total/NA	Solid	8015NM Prep	
880-22119-29	S1 10'	Total/NA	Solid	8015NM Prep	
880-22119-30	S1 5'	Total/NA	Solid	8015NM Prep	
880-22119-31	S1 3'	Total/NA	Solid	8015NM Prep	
880-22119-32	S1 1'	Total/NA	Solid	8015NM Prep	
880-22119-33	S7 10'	Total/NA	Solid	8015NM Prep	
880-22119-34	S7 5'	Total/NA	Solid	8015NM Prep	
880-22119-35	S7 3'	Total/NA	Solid	8015NM Prep	
880-22119-36	S7 1'	Total/NA	Solid	8015NM Prep	
880-22119-37	S6 10'	Total/NA	Solid	8015NM Prep	
880-22119-38	S6 5'	Total/NA	Solid	8015NM Prep	
880-22119-39	S6 3'	Total/NA	Solid	8015NM Prep	
880-22119-40	S6 1'	Total/NA	Solid	8015NM Prep	
MB 880-41159/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41159/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41159/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22119-21 MS	S2 10'	Total/NA	Solid	8015NM Prep	
880-22119-21 MSD	S2 10'	Total/NA	Solid	8015NM Prep	

Prep Batch: 41187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Total/NA	Solid	8015NM Prep	
880-22119-2	S3 10'	Total/NA	Solid	8015NM Prep	
880-22119-3	S4 10'	Total/NA	Solid	8015NM Prep	
880-22119-4	S9 10'	Total/NA	Solid	8015NM Prep	
880-22119-5	S5 10'	Total/NA	Solid	8015NM Prep	
880-22119-6	S5 5'	Total/NA	Solid	8015NM Prep	
880-22119-7	S5 3'	Total/NA	Solid	8015NM Prep	
880-22119-8	S5 1'	Total/NA	Solid	8015NM Prep	
880-22119-9	S8 5'	Total/NA	Solid	8015NM Prep	
880-22119-10	S8 3'	Total/NA	Solid	8015NM Prep	
880-22119-11	S8 1'	Total/NA	Solid	8015NM Prep	
880-22119-12	S3 5'	Total/NA	Solid	8015NM Prep	
880-22119-13	S3 3'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

GC Semi VOA (Continued)

Prep Batch: 41187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-14	S3 1'	Total/NA	Solid	8015NM Prep	
880-22119-15	S4 5'	Total/NA	Solid	8015NM Prep	
880-22119-18	S9 5'	Total/NA	Solid	8015NM Prep	
880-22119-19	S9 3'	Total/NA	Solid	8015NM Prep	
880-22119-20	S9 1'	Total/NA	Solid	8015NM Prep	
MB 880-41187/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41187/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41187/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22119-1 MS	S8 10'	Total/NA	Solid	8015NM Prep	
880-22119-1 MSD	S8 10'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Total/NA	Solid	8015B NM	41187
880-22119-2	S3 10'	Total/NA	Solid	8015B NM	41187
880-22119-3	S4 10'	Total/NA	Solid	8015B NM	41187
880-22119-4	S9 10'	Total/NA	Solid	8015B NM	41187
880-22119-5	S5 10'	Total/NA	Solid	8015B NM	41187
880-22119-6	S5 5'	Total/NA	Solid	8015B NM	41187
880-22119-7	S5 3'	Total/NA	Solid	8015B NM	41187
880-22119-8	S5 1'	Total/NA	Solid	8015B NM	41187
880-22119-9	S8 5'	Total/NA	Solid	8015B NM	41187
880-22119-10	S8 3'	Total/NA	Solid	8015B NM	41187
880-22119-11	S8 1'	Total/NA	Solid	8015B NM	41187
880-22119-12	S3 5'	Total/NA	Solid	8015B NM	41187
880-22119-13	S3 3'	Total/NA	Solid	8015B NM	41187
880-22119-14	S3 1'	Total/NA	Solid	8015B NM	41187
880-22119-15	S4 5'	Total/NA	Solid	8015B NM	41187
880-22119-18	S9 5'	Total/NA	Solid	8015B NM	41187
880-22119-19	S9 3'	Total/NA	Solid	8015B NM	41187
880-22119-20	S9 1'	Total/NA	Solid	8015B NM	41187
880-22119-21	S2 10'	Total/NA	Solid	8015B NM	41159
880-22119-22	S2 5'	Total/NA	Solid	8015B NM	41159
880-22119-23	S2 3'	Total/NA	Solid	8015B NM	41159
880-22119-24	S2 1'	Total/NA	Solid	8015B NM	41159
880-22119-25	S10 10'	Total/NA	Solid	8015B NM	41159
880-22119-26	S10 5'	Total/NA	Solid	8015B NM	41159
880-22119-27	S10 3'	Total/NA	Solid	8015B NM	41159
880-22119-28	S10 1'	Total/NA	Solid	8015B NM	41159
880-22119-29	S1 10'	Total/NA	Solid	8015B NM	41159
880-22119-30	S1 5'	Total/NA	Solid	8015B NM	41159
880-22119-31	S1 3'	Total/NA	Solid	8015B NM	41159
880-22119-32	S1 1'	Total/NA	Solid	8015B NM	41159
880-22119-33	S7 10'	Total/NA	Solid	8015B NM	41159
880-22119-34	S7 5'	Total/NA	Solid	8015B NM	41159
880-22119-35	S7 3'	Total/NA	Solid	8015B NM	41159
880-22119-36	S7 1'	Total/NA	Solid	8015B NM	41159
880-22119-37	S6 10'	Total/NA	Solid	8015B NM	41159
880-22119-38	S6 5'	Total/NA	Solid	8015B NM	41159
880-22119-39	S6 3'	Total/NA	Solid	8015B NM	41159
880-22119-40	S6 1'	Total/NA	Solid	8015B NM	41159

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

GC Semi VOA (Continued)

Analysis Batch: 41218 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-41159/1-A	Method Blank	Total/NA	Solid	8015B NM	41159
MB 880-41187/1-A	Method Blank	Total/NA	Solid	8015B NM	41187
LCS 880-41159/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41159
LCS 880-41187/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41187
LCSD 880-41159/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41159
LCSD 880-41187/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41187
880-22119-1 MS	S8 10'	Total/NA	Solid	8015B NM	41187
880-22119-1 MSD	S8 10'	Total/NA	Solid	8015B NM	41187
880-22119-21 MS	S2 10'	Total/NA	Solid	8015B NM	41159
880-22119-21 MSD	S2 10'	Total/NA	Solid	8015B NM	41159

Analysis Batch: 41364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Total/NA	Solid	8015 NM	
880-22119-2	S3 10'	Total/NA	Solid	8015 NM	
880-22119-3	S4 10'	Total/NA	Solid	8015 NM	
880-22119-4	S9 10'	Total/NA	Solid	8015 NM	
880-22119-5	S5 10'	Total/NA	Solid	8015 NM	
880-22119-6	S5 5'	Total/NA	Solid	8015 NM	
880-22119-7	S5 3'	Total/NA	Solid	8015 NM	
880-22119-8	S5 1'	Total/NA	Solid	8015 NM	
880-22119-9	S8 5'	Total/NA	Solid	8015 NM	
880-22119-10	S8 3'	Total/NA	Solid	8015 NM	
880-22119-11	S8 1'	Total/NA	Solid	8015 NM	
880-22119-12	S3 5'	Total/NA	Solid	8015 NM	
880-22119-13	S3 3'	Total/NA	Solid	8015 NM	
880-22119-14	S3 1'	Total/NA	Solid	8015 NM	
880-22119-15	S4 5'	Total/NA	Solid	8015 NM	
880-22119-18	S9 5'	Total/NA	Solid	8015 NM	
880-22119-19	S9 3'	Total/NA	Solid	8015 NM	
880-22119-20	S9 1'	Total/NA	Solid	8015 NM	
880-22119-21	S2 10'	Total/NA	Solid	8015 NM	
880-22119-22	S2 5'	Total/NA	Solid	8015 NM	
880-22119-23	S2 3'	Total/NA	Solid	8015 NM	
880-22119-24	S2 1'	Total/NA	Solid	8015 NM	
880-22119-25	S10 10'	Total/NA	Solid	8015 NM	
880-22119-26	S10 5'	Total/NA	Solid	8015 NM	
880-22119-27	S10 3'	Total/NA	Solid	8015 NM	
880-22119-28	S10 1'	Total/NA	Solid	8015 NM	
880-22119-29	S1 10'	Total/NA	Solid	8015 NM	
880-22119-30	S1 5'	Total/NA	Solid	8015 NM	
880-22119-31	S1 3'	Total/NA	Solid	8015 NM	
880-22119-32	S1 1'	Total/NA	Solid	8015 NM	
880-22119-33	S7 10'	Total/NA	Solid	8015 NM	
880-22119-34	S7 5'	Total/NA	Solid	8015 NM	
880-22119-35	S7 3'	Total/NA	Solid	8015 NM	
880-22119-36	S7 1'	Total/NA	Solid	8015 NM	
880-22119-37	S6 10'	Total/NA	Solid	8015 NM	
880-22119-38	S6 5'	Total/NA	Solid	8015 NM	
880-22119-39	S6 3'	Total/NA	Solid	8015 NM	
880-22119-40	S6 1'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

HPLC/IC

Leach Batch: 40834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-6	S5 5'	Soluble	Solid	DI Leach	
880-22119-7	S5 3'	Soluble	Solid	DI Leach	
880-22119-8	S5 1'	Soluble	Solid	DI Leach	
MB 880-40834/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40834/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40834/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 40952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-6	S5 5'	Soluble	Solid	300.0	40834
880-22119-7	S5 3'	Soluble	Solid	300.0	40834
880-22119-8	S5 1'	Soluble	Solid	300.0	40834
MB 880-40834/1-A	Method Blank	Soluble	Solid	300.0	40834
LCS 880-40834/2-A	Lab Control Sample	Soluble	Solid	300.0	40834
LCSD 880-40834/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40834

Leach Batch: 40967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-26	S10 5'	Soluble	Solid	DI Leach	
880-22119-27	S10 3'	Soluble	Solid	DI Leach	
880-22119-28	S10 1'	Soluble	Solid	DI Leach	
880-22119-29	S1 10'	Soluble	Solid	DI Leach	
880-22119-30	S1 5'	Soluble	Solid	DI Leach	
MB 880-40967/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40967/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40967/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22119-26 MS	S10 5'	Soluble	Solid	DI Leach	
880-22119-26 MSD	S10 5'	Soluble	Solid	DI Leach	

Leach Batch: 40969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Soluble	Solid	DI Leach	
880-22119-2	S3 10'	Soluble	Solid	DI Leach	
880-22119-3	S4 10'	Soluble	Solid	DI Leach	
880-22119-4	S9 10'	Soluble	Solid	DI Leach	
880-22119-5	S5 10'	Soluble	Solid	DI Leach	
880-22119-9	S8 5'	Soluble	Solid	DI Leach	
880-22119-10	S8 3'	Soluble	Solid	DI Leach	
880-22119-11	S8 1'	Soluble	Solid	DI Leach	
880-22119-12	S3 5'	Soluble	Solid	DI Leach	
880-22119-13	S3 3'	Soluble	Solid	DI Leach	
880-22119-14	S3 1'	Soluble	Solid	DI Leach	
880-22119-15	S4 5'	Soluble	Solid	DI Leach	
880-22119-18	S9 5'	Soluble	Solid	DI Leach	
880-22119-19	S9 3'	Soluble	Solid	DI Leach	
880-22119-20	S9 1'	Soluble	Solid	DI Leach	
880-22119-21	S2 10'	Soluble	Solid	DI Leach	
880-22119-22	S2 5'	Soluble	Solid	DI Leach	
880-22119-23	S2 3'	Soluble	Solid	DI Leach	
880-22119-24	S2 1'	Soluble	Solid	DI Leach	
880-22119-25	S10 10'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

HPLC/IC (Continued)

Leach Batch: 40969 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40969/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40969/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40969/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22119-1 MS	S8 10'	Soluble	Solid	DI Leach	
880-22119-1 MSD	S8 10'	Soluble	Solid	DI Leach	
880-22119-14 MS	S3 1'	Soluble	Solid	DI Leach	
880-22119-14 MSD	S3 1'	Soluble	Solid	DI Leach	

Leach Batch: 40970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-31	S1 3'	Soluble	Solid	DI Leach	
880-22119-32	S1 1'	Soluble	Solid	DI Leach	
880-22119-33	S7 10'	Soluble	Solid	DI Leach	
880-22119-34	S7 5'	Soluble	Solid	DI Leach	
880-22119-35	S7 3'	Soluble	Solid	DI Leach	
880-22119-36	S7 1'	Soluble	Solid	DI Leach	
880-22119-37	S6 10'	Soluble	Solid	DI Leach	
880-22119-38	S6 5'	Soluble	Solid	DI Leach	
880-22119-39	S6 3'	Soluble	Solid	DI Leach	
MB 880-40970/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40970/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40970/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22119-31 MS	S1 3'	Soluble	Solid	DI Leach	
880-22119-31 MSD	S1 3'	Soluble	Solid	DI Leach	

Leach Batch: 40971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-40	S6 1'	Soluble	Solid	DI Leach	
MB 880-40971/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40971/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40971/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22119-40 MS	S6 1'	Soluble	Solid	DI Leach	
880-22119-40 MSD	S6 1'	Soluble	Solid	DI Leach	

Analysis Batch: 41027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Soluble	Solid	300.0	40969
880-22119-2	S3 10'	Soluble	Solid	300.0	40969
880-22119-3	S4 10'	Soluble	Solid	300.0	40969
880-22119-4	S9 10'	Soluble	Solid	300.0	40969
880-22119-5	S5 10'	Soluble	Solid	300.0	40969
880-22119-9	S8 5'	Soluble	Solid	300.0	40969
880-22119-10	S8 3'	Soluble	Solid	300.0	40969
880-22119-11	S8 1'	Soluble	Solid	300.0	40969
880-22119-12	S3 5'	Soluble	Solid	300.0	40969
880-22119-13	S3 3'	Soluble	Solid	300.0	40969
880-22119-14	S3 1'	Soluble	Solid	300.0	40969
880-22119-15	S4 5'	Soluble	Solid	300.0	40969
880-22119-18	S9 5'	Soluble	Solid	300.0	40969
880-22119-19	S9 3'	Soluble	Solid	300.0	40969
880-22119-20	S9 1'	Soluble	Solid	300.0	40969

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

HPLC/IC (Continued)

Analysis Batch: 41027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-21	S2 10'	Soluble	Solid	300.0	40969
880-22119-22	S2 5'	Soluble	Solid	300.0	40969
880-22119-23	S2 3'	Soluble	Solid	300.0	40969
880-22119-24	S2 1'	Soluble	Solid	300.0	40969
880-22119-25	S10 10'	Soluble	Solid	300.0	40969
MB 880-40969/1-A	Method Blank	Soluble	Solid	300.0	40969
LCS 880-40969/2-A	Lab Control Sample	Soluble	Solid	300.0	40969
LCSD 880-40969/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40969
880-22119-1 MS	S8 10'	Soluble	Solid	300.0	40969
880-22119-1 MSD	S8 10'	Soluble	Solid	300.0	40969
880-22119-14 MS	S3 1'	Soluble	Solid	300.0	40969
880-22119-14 MSD	S3 1'	Soluble	Solid	300.0	40969

Analysis Batch: 41028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-26	S10 5'	Soluble	Solid	300.0	40967
880-22119-27	S10 3'	Soluble	Solid	300.0	40967
880-22119-28	S10 1'	Soluble	Solid	300.0	40967
880-22119-29	S1 10'	Soluble	Solid	300.0	40967
880-22119-30	S1 5'	Soluble	Solid	300.0	40967
MB 880-40967/1-A	Method Blank	Soluble	Solid	300.0	40967
LCS 880-40967/2-A	Lab Control Sample	Soluble	Solid	300.0	40967
LCSD 880-40967/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40967
880-22119-26 MS	S10 5'	Soluble	Solid	300.0	40967
880-22119-26 MSD	S10 5'	Soluble	Solid	300.0	40967

Analysis Batch: 41029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-31	S1 3'	Soluble	Solid	300.0	40970
880-22119-32	S1 1'	Soluble	Solid	300.0	40970
880-22119-33	S7 10'	Soluble	Solid	300.0	40970
880-22119-34	S7 5'	Soluble	Solid	300.0	40970
880-22119-35	S7 3'	Soluble	Solid	300.0	40970
880-22119-36	S7 1'	Soluble	Solid	300.0	40970
880-22119-37	S6 10'	Soluble	Solid	300.0	40970
880-22119-38	S6 5'	Soluble	Solid	300.0	40970
880-22119-39	S6 3'	Soluble	Solid	300.0	40970
MB 880-40970/1-A	Method Blank	Soluble	Solid	300.0	40970
LCS 880-40970/2-A	Lab Control Sample	Soluble	Solid	300.0	40970
LCSD 880-40970/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40970
880-22119-31 MS	S1 3'	Soluble	Solid	300.0	40970
880-22119-31 MSD	S1 3'	Soluble	Solid	300.0	40970

Analysis Batch: 41088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-40	S6 1'	Soluble	Solid	300.0	40971
MB 880-40971/1-A	Method Blank	Soluble	Solid	300.0	40971
LCS 880-40971/2-A	Lab Control Sample	Soluble	Solid	300.0	40971
LCSD 880-40971/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40971
880-22119-40 MS	S6 1'	Soluble	Solid	300.0	40971
880-22119-40 MSD	S6 1'	Soluble	Solid	300.0	40971

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S8 10'
Date Collected: 11/28/22 14:13
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40771	12/01/22 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40980	12/05/22 01:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/05/22 14:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 10:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 01:49	CH	EET MID

Client Sample ID: S3 10'
Date Collected: 11/28/22 14:32
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40771	12/01/22 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40980	12/05/22 01:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/05/22 14:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 12:04	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 02:14	CH	EET MID

Client Sample ID: S4 10'
Date Collected: 11/28/22 15:08
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40771	12/01/22 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40980	12/05/22 01:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/05/22 14:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 12:26	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 02:22	CH	EET MID

Client Sample ID: S9 10'
Date Collected: 11/28/22 08:52
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40771	12/01/22 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40980	12/05/22 02:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/05/22 14:46	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S9 10'
Date Collected: 11/28/22 08:52
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-4
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			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 12:49	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 02:30	CH	EET MID

Client Sample ID: S5 10'
Date Collected: 11/29/22 09:20
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40771	12/01/22 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40980	12/05/22 02:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/05/22 14:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 13:11	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 02:38	CH	EET MID

Client Sample ID: S5 5'
Date Collected: 11/29/22 09:19
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-6
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			4.98 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 13:33	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40834	12/01/22 17:32	SMC	EET MID
Soluble	Analysis	300.0		1			40952	12/04/22 12:40	CH	EET MID

Client Sample ID: S5 3'
Date Collected: 11/29/22 09:18
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 13:55	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S5 3'
Date Collected: 11/29/22 09:18
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-7
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			4.96 g	50 mL	40834	12/01/22 17:32	SMC	EET MID
Soluble	Analysis	300.0		1			40952	12/04/22 12:48	CH	EET MID

Client Sample ID: S5 1'
Date Collected: 11/29/22 09:17
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 12:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 14:18	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40834	12/01/22 17:32	SMC	EET MID
Soluble	Analysis	300.0		5			40952	12/04/22 12:56	CH	EET MID

Client Sample ID: S8 5'
Date Collected: 11/29/22 14:12
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-9
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	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 13:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 14:40	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 03:03	CH	EET MID

Client Sample ID: S8 3'
Date Collected: 11/29/22 14:11
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-10
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	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 14:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 15:02	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 03:11	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S8 1'
Date Collected: 11/29/22 14:10
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 13:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 14:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 15:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 03:19	CH	EET MID

Client Sample ID: S3 5'
Date Collected: 11/29/22 14:31
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-12
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			5.01 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 14:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 17:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 16:13	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 03:27	CH	EET MID

Client Sample ID: S3 3'
Date Collected: 11/29/22 14:30
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 14:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 17:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 16:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 03:35	CH	EET MID

Client Sample ID: S3 1'
Date Collected: 11/29/22 14:29
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 14:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 17:36	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S3 1'
Date Collected: 11/29/22 14:29
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-14
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			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 16:57	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 03:43	CH	EET MID

Client Sample ID: S4 5'
Date Collected: 11/29/22 15:07
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 15:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 17:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 17:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 04:08	CH	EET MID

Client Sample ID: S9 5'
Date Collected: 11/29/22 08:51
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 16:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 17:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 17:41	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 04:16	CH	EET MID

Client Sample ID: S9 3'
Date Collected: 11/29/22 08:50
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 17:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 18:03	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S9 3'
Date Collected: 11/29/22 08:50
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-19
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			5.03 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 04:40	CH	EET MID

Client Sample ID: S9 1'
Date Collected: 11/29/22 08:49
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-20
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			5.03 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 18:25	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		5			41027	12/07/22 04:48	CH	EET MID

Client Sample ID: S2 10'
Date Collected: 11/29/22 10:00
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 21:00	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 04:56	CH	EET MID

Client Sample ID: S2 5'
Date Collected: 11/29/22 09:59
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-22
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			5.02 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 22:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 05:05	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S2 3'
Date Collected: 11/29/22 09:58
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-23
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			5.02 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 22:28	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 05:13	CH	EET MID

Client Sample ID: S2 1'
Date Collected: 11/29/22 09:57
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 21:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 22:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 05:21	CH	EET MID

Client Sample ID: S10 10'
Date Collected: 11/29/22 09:30
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-25
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			5.03 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 21:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 23:13	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 05:29	CH	EET MID

Client Sample ID: S10 5'
Date Collected: 11/29/22 09:29
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 21:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S10 5'
Date Collected: 11/29/22 09:29
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 23:35	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40967	12/03/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1			41028	12/07/22 11:33	CH	EET MID

Client Sample ID: S10 3'
Date Collected: 11/29/22 09:28
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 22:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 23:56	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40967	12/03/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1			41028	12/07/22 11:53	CH	EET MID

Client Sample ID: S10 1'
Date Collected: 11/29/22 09:27
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 22:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 00:18	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	40967	12/03/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1			41028	12/07/22 11:59	CH	EET MID

Client Sample ID: S1 10'
Date Collected: 11/29/22 10:30
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-29
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	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 22:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 00:39	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S1 10'
Date Collected: 11/29/22 10:30
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-29
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	40967	12/03/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1			41028	12/07/22 12:06	CH	EET MID

Client Sample ID: S1 5'
Date Collected: 11/29/22 10:29
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-30
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			5.03 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 23:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 01:01	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40967	12/03/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		5			41028	12/07/22 12:13	CH	EET MID

Client Sample ID: S1 3'
Date Collected: 11/29/22 10:28
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-31
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	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 23:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 01:44	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		10			41029	12/07/22 06:34	CH	EET MID

Client Sample ID: S1 1'
Date Collected: 11/29/22 10:27
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-32
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			5.04 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 23:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 02:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 06:58	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S7 10'
Date Collected: 11/29/22 10:45
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 00:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 02:27	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 07:06	CH	EET MID

Client Sample ID: S7 5'
Date Collected: 11/29/22 10:44
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 02:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 02:49	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 07:15	CH	EET MID

Client Sample ID: S7 3'
Date Collected: 11/29/22 10:43
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 02:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 03:10	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 07:23	CH	EET MID

Client Sample ID: S7 1'
Date Collected: 11/29/22 10:42
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-36
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			5.03 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 02:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S7 1'
Date Collected: 11/29/22 10:42
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 03:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 09:17	CH	EET MID

Client Sample ID: S6 10'
Date Collected: 11/29/22 11:10
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-37
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			5.01 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 03:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 03:53	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 09:25	CH	EET MID

Client Sample ID: S6 5'
Date Collected: 11/29/22 11:09
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 03:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 04:15	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 09:33	CH	EET MID

Client Sample ID: S6 3'
Date Collected: 11/29/22 11:08
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-39
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	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 03:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 04:36	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Client Sample ID: S6 3'

Lab Sample ID: 880-22119-39
Matrix: Solid
Date Collected: 11/29/22 11:08
Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 09:41	CH	EET MID

Client Sample ID: S6 1'

Lab Sample ID: 880-22119-40
Matrix: Solid
Date Collected: 11/29/22 11:07
Date Received: 12/01/22 08:13

Prep 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	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 04:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 04:58	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40971	12/03/22 16:32	SMC	EET MID
Soluble	Analysis	300.0		5			41088	12/07/22 17:45	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-22119-1
Project/Site: Sand Dunes Pad 34 SDG: 22-0105-14

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22119-1
SDG: 22-0105-14

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22119-1	S8 10'	Solid	11/28/22 14:13	12/01/22 08:13
880-22119-2	S3 10'	Solid	11/28/22 14:32	12/01/22 08:13
880-22119-3	S4 10'	Solid	11/28/22 15:08	12/01/22 08:13
880-22119-4	S9 10'	Solid	11/28/22 08:52	12/01/22 08:13
880-22119-5	S5 10'	Solid	11/29/22 09:20	12/01/22 08:13
880-22119-6	S5 5'	Solid	11/29/22 09:19	12/01/22 08:13
880-22119-7	S5 3'	Solid	11/29/22 09:18	12/01/22 08:13
880-22119-8	S5 1'	Solid	11/29/22 09:17	12/01/22 08:13
880-22119-9	S8 5'	Solid	11/29/22 14:12	12/01/22 08:13
880-22119-10	S8 3'	Solid	11/29/22 14:11	12/01/22 08:13
880-22119-11	S8 1'	Solid	11/29/22 14:10	12/01/22 08:13
880-22119-12	S3 5'	Solid	11/29/22 14:31	12/01/22 08:13
880-22119-13	S3 3'	Solid	11/29/22 14:30	12/01/22 08:13
880-22119-14	S3 1'	Solid	11/29/22 14:29	12/01/22 08:13
880-22119-15	S4 5'	Solid	11/29/22 15:07	12/01/22 08:13
880-22119-18	S9 5'	Solid	11/29/22 08:51	12/01/22 08:13
880-22119-19	S9 3'	Solid	11/29/22 08:50	12/01/22 08:13
880-22119-20	S9 1'	Solid	11/29/22 08:49	12/01/22 08:13
880-22119-21	S2 10'	Solid	11/29/22 10:00	12/01/22 08:13
880-22119-22	S2 5'	Solid	11/29/22 09:59	12/01/22 08:13
880-22119-23	S2 3'	Solid	11/29/22 09:58	12/01/22 08:13
880-22119-24	S2 1'	Solid	11/29/22 09:57	12/01/22 08:13
880-22119-25	S10 10'	Solid	11/29/22 09:30	12/01/22 08:13
880-22119-26	S10 5'	Solid	11/29/22 09:29	12/01/22 08:13
880-22119-27	S10 3'	Solid	11/29/22 09:28	12/01/22 08:13
880-22119-28	S10 1'	Solid	11/29/22 09:27	12/01/22 08:13
880-22119-29	S1 10'	Solid	11/29/22 10:30	12/01/22 08:13
880-22119-30	S1 5'	Solid	11/29/22 10:29	12/01/22 08:13
880-22119-31	S1 3'	Solid	11/29/22 10:28	12/01/22 08:13
880-22119-32	S1 1'	Solid	11/29/22 10:27	12/01/22 08:13
880-22119-33	S7 10'	Solid	11/29/22 10:45	12/01/22 08:13
880-22119-34	S7 5'	Solid	11/29/22 10:44	12/01/22 08:13
880-22119-35	S7 3'	Solid	11/29/22 10:43	12/01/22 08:13
880-22119-36	S7 1'	Solid	11/29/22 10:42	12/01/22 08:13
880-22119-37	S6 10'	Solid	11/29/22 11:10	12/01/22 08:13
880-22119-38	S6 5'	Solid	11/29/22 11:09	12/01/22 08:13
880-22119-39	S6 3'	Solid	11/29/22 11:08	12/01/22 08:13
880-22119-40	S6 1'	Solid	11/29/22 11:07	12/01/22 08:13

22119

No. 2425

CHAIN-OF-CUSTODY

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

Data Reported to

DATE: 12-1-22 PAGE 1 OF 3

PO#: LAB WORK ORDER#

PROJECT LOCATION OR NAME: Sand Dunes Pad 34

LAI PROJECT #: 22-0105-14 COLLECTOR: JH AB

TRRP report? ☐ Yes ☑ No

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

TIME ZONE
Time zone/State: MNT/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
S8 10'		11-28-22	1413	S	1				X		X	202
S3 10'			1432									
S4 10'			1508									
S9 10'		11-28-22	852									
S5 10'		11-29-22	920									
S5 5'			919									
S5 3'			918									
S5 1'			917									
S8 5'			1412									
S8 3'			1411									
S8 1'			1410									
S3 5'			1431									
S3 3'			1430									
S3 1'			1429	S	1				X			
S4 5'		11-29-22	1507	S	1				X	X	X	

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

TOTAL 15

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	12-1-22/813	[signature]
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
LABORATORY		

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

LABORATORY USE ONLY:
RECEIVING TEMP 1.3 | 1.0 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

22119

No. 2426

CHAIN-OF-CUSTODY

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

DATE 12-1-22 PAGE 2 OF 3

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME Sand Dunes Pad 34

LAI PROJECT #: 22-0105-14 COLLECTOR:

Data Reported to

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MNT/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
S4 3'		11-29-22	1506	S	1				X		X				X	X	X																													
2'			1505																																											
S9 5'			851																																											
3'			850																																											
1'			849																																											
S2 10'			1000																																											
5'			959																																											
3'			958																																											
1'			957																																											
S10 10'			930																																											
5'			929																																											
3'			928																																											
1'			927																																											
S1 10'			1030																																											
5'		11-29-22	1029	S	1				X		X				X	X	X																													
TOTAL 15																																														

RELINQUISHED BY (Signature) DATE/TIME 12-1-22/813 RECEIVED BY (Signature)

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

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

LABORATORY

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

LABORATORY USE ONLY:
RECEIVING TEMP 1.3/1.0 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

No. 24272

22119 CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

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

DATE: 12-1-22 PAGE 3 OF 3

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME Sand Dunes And 34

LAI PROJECT #: 22-0105-14 COLLECTOR: JH AB

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MNT/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418 1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200 8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S1 3'		11-29-22	1028	S	1				X		X			X	X	X													X		
1'			1027																												
S7 10'			1045																												
5'			1044																												
3'			1043																												
1'			1042																												
S6 10'			1110																												
5'			1109																												
3'			1108																												
1'		11-29-22	1107	S	1				X		X			X	X	X													X		

880-22119 COC

TOTAL 10

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	12-1-22/813	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
LABORATORY		

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

LABORATORY USE ONLY:
RECEIVING TEMP 1.3/1.0 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-22119-1
SDG Number: 22-0105-14

Login Number: 22119
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/19/2022 4:43:15 PM

JOB DESCRIPTION

Chevron-Sand Dunes Pad 34
SDG NUMBER 22-0105-14

JOB NUMBER

880-22535-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

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Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
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Authorized for release by
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Client: Larson & Associates, Inc.
Project/Site: Chevron-Sand Dunes Pad 34

Laboratory Job ID: 880-22535-1
SDG: 22-0105-14

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-22535-1
Project/Site: Chevron-Sand Dunes Pad 34 SDG: 22-0105-14

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-22535-1
Project/Site: Chevron-Sand Dunes Pad 34 SDG: 22-0105-14

Job ID: 880-22535-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-22535-1

Receipt
The samples were received on 12/9/2022 8:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-12, 1' (880-22535-1) and S-11, 1' (880-22535-2).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41797 and analytical batch 880-41984 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-41797 and analytical batch 880-41984 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

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

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-22535-1
Project/Site: Chevron-Sand Dunes Pad 34 SDG: 22-0105-14

Client Sample ID: S-12, 1'
Lab Sample ID: 880-22535-1
Date Collected: 12/07/22 14:26 **Matrix: Solid**
Date Received: 12/09/22 08:55

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/16/22 14:05	12/18/22 03:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/16/22 14:05	12/18/22 03:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/16/22 14:05	12/18/22 03:46	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/16/22 14:05	12/18/22 03:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/16/22 14:05	12/18/22 03:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/16/22 14:05	12/18/22 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*12/16/22 14:05*	*12/18/22 03:46*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/16/22 14:05*	*12/18/22 03:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/19/22 17:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/14/22 10:47	12/16/22 15:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/14/22 10:47	12/16/22 15:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/14/22 10:47	12/16/22 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*12/14/22 10:47*	*12/16/22 15:06*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*12/14/22 10:47*	*12/16/22 15:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.1**		4.98		mg/Kg			12/16/22 03:56	1

Client Sample ID: S-11, 1'
Lab Sample ID: 880-22535-2
Date Collected: 12/07/22 14:50 **Matrix: Solid**
Date Received: 12/09/22 08:55

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/22 14:05	12/18/22 04:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/22 14:05	12/18/22 04:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/22 14:05	12/18/22 04:07	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/16/22 14:05	12/18/22 04:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/22 14:05	12/18/22 04:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/16/22 14:05	12/18/22 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/16/22 14:05*	*12/18/22 04:07*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/16/22 14:05*	*12/18/22 04:07*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chevron-Sand Dunes Pad 34

Job ID: 880-22535-1
SDG: 22-0105-14

Client Sample ID: S-11, 1'

Date Collected: 12/07/22 14:50
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22535-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/19/22 17:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/19/22 15:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/14/22 10:47	12/16/22 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/14/22 10:47	12/16/22 15:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/14/22 10:47	12/16/22 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*12/14/22 10:47*	*12/16/22 15:49*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*12/14/22 10:47*	*12/16/22 15:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		4.99		mg/Kg			12/16/22 04:03	1

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-22535-1
Project/Site: Chevron-Sand Dunes Pad 34 SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-22535-1	S-12, 1'	106	108										
880-22535-2	S-11, 1'	112	96										
LCS 880-42044/1-A	Lab Control Sample	114	113										
LCSD 880-42044/2-A	Lab Control Sample Dup	109	111										
MB 880-41920/5-A	Method Blank	84	108										
MB 880-42044/5-A	Method Blank	80	102										

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-22535-1	S-12, 1'	103	116										
880-22535-2	S-11, 1'	95	105										
LCS 880-41797/2-A	Lab Control Sample	108	123										
LCSD 880-41797/3-A	Lab Control Sample Dup	107	118										
MB 880-41797/1-A	Method Blank	112	134 S1+										

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chevron-Sand Dunes Pad 34

Job ID: 880-22535-1
SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41920/5-A
Matrix: Solid
Analysis Batch: 41992

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41920

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/15/22 13:33	12/17/22 08:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/15/22 13:33	12/17/22 08:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/15/22 13:33	12/17/22 08:38	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/15/22 13:33	12/17/22 08:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/15/22 13:33	12/17/22 08:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/15/22 13:33	12/17/22 08:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*12/15/22 13:33*	*12/17/22 08:38*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/15/22 13:33*	*12/17/22 08:38*	*1*

Lab Sample ID: MB 880-42044/5-A
Matrix: Solid
Analysis Batch: 41992

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42044

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/16/22 14:05	12/17/22 20:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/16/22 14:05	12/17/22 20:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/16/22 14:05	12/17/22 20:15	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/16/22 14:05	12/17/22 20:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/16/22 14:05	12/17/22 20:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/16/22 14:05	12/17/22 20:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*12/16/22 14:05*	*12/17/22 20:15*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/16/22 14:05*	*12/17/22 20:15*	*1*

Lab Sample ID: LCS 880-42044/1-A
Matrix: Solid
Analysis Batch: 41992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42044

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09625		mg/Kg		96	70 - 130		
Toluene			0.100	0.09337		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.1014		mg/Kg		101	70 - 130		
m,p-Xylenes			0.200	0.2077		mg/Kg		104	70 - 130		
o-Xylene			0.100	0.1063		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-42044/2-A
Matrix: Solid
Analysis Batch: 41992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42044

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1053		mg/Kg		105	70 - 130	9	35

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-22535-1
Project/Site: Chevron-Sand Dunes Pad 34 SDG: 22-0105-14

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

Lab Sample ID: LCSD 880-42044/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 41992 **Prep Batch: 42044**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09676		mg/Kg		97	70 - 130	4	35
Ethylbenzene			0.100	0.1025		mg/Kg		103	70 - 130	1	35
m,p-Xylenes			0.200	0.2063		mg/Kg		103	70 - 130	1	35
o-Xylene			0.100	0.1044		mg/Kg		104	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

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

Lab Sample ID: MB 880-41797/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 41984 **Prep Batch: 41797**

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		12/14/22 10:47	12/16/22 08:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/14/22 10:47	12/16/22 08:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/14/22 10:47	12/16/22 08:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*12/14/22 10:47*	*12/16/22 08:33*	*1*
o-Terphenyl (Surr)	*134*	*S1+*	*70 - 130*	*12/14/22 10:47*	*12/16/22 08:33*	*1*

Lab Sample ID: LCS 880-41797/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 41984 **Prep Batch: 41797**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	890.2		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)			1000	995.0		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*108*		*70 - 130*
o-Terphenyl (Surr)	*123*		*70 - 130*

Lab Sample ID: LCSD 880-41797/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 41984 **Prep Batch: 41797**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	831.1		mg/Kg		83	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	975.8		mg/Kg		98	70 - 130	2	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chevron-Sand Dunes Pad 34

Job ID: 880-22535-1
SDG: 22-0105-14

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

Lab Sample ID: LCSD 880-41797/3-A
Matrix: Solid
Analysis Batch: 41984

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41797

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	118		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41479/1-A
Matrix: Solid
Analysis Batch: 41945

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			12/16/22 02:07	1

Lab Sample ID: LCS 880-41479/2-A
Matrix: Solid
Analysis Batch: 41945

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.5		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-41479/3-A
Matrix: Solid
Analysis Batch: 41945

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	251.3		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-22535-1
Project/Site: Chevron-Sand Dunes Pad 34 SDG: 22-0105-14

GC VOA

Prep Batch: 41920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-41920/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 41992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22535-1	S-12, 1'	Total/NA	Solid	8021B	42044
880-22535-2	S-11, 1'	Total/NA	Solid	8021B	42044
MB 880-41920/5-A	Method Blank	Total/NA	Solid	8021B	41920
MB 880-42044/5-A	Method Blank	Total/NA	Solid	8021B	42044
LCS 880-42044/1-A	Lab Control Sample	Total/NA	Solid	8021B	42044
LCSD 880-42044/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42044

Prep Batch: 42044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22535-1	S-12, 1'	Total/NA	Solid	5035	
880-22535-2	S-11, 1'	Total/NA	Solid	5035	
MB 880-42044/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42044/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42044/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 42268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22535-1	S-12, 1'	Total/NA	Solid	Total BTEX	
880-22535-2	S-11, 1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22535-1	S-12, 1'	Total/NA	Solid	8015NM Prep	
880-22535-2	S-11, 1'	Total/NA	Solid	8015NM Prep	
MB 880-41797/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41797/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22535-1	S-12, 1'	Total/NA	Solid	8015B NM	41797
880-22535-2	S-11, 1'	Total/NA	Solid	8015B NM	41797
MB 880-41797/1-A	Method Blank	Total/NA	Solid	8015B NM	41797
LCS 880-41797/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41797
LCSD 880-41797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41797

Analysis Batch: 42216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22535-1	S-12, 1'	Total/NA	Solid	8015 NM	
880-22535-2	S-11, 1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22535-1	S-12, 1'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-22535-1
Project/Site: Chevron-Sand Dunes Pad 34 SDG: 22-0105-14

HPLC/IC (Continued)

Leach Batch: 41479 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22535-2	S-11, 1'	Soluble	Solid	DI Leach	
MB 880-41479/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41479/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41479/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 41945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22535-1	S-12, 1'	Soluble	Solid	300.0	41479
880-22535-2	S-11, 1'	Soluble	Solid	300.0	41479
MB 880-41479/1-A	Method Blank	Soluble	Solid	300.0	41479
LCS 880-41479/2-A	Lab Control Sample	Soluble	Solid	300.0	41479
LCSD 880-41479/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41479

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chevron-Sand Dunes Pad 34

Job ID: 880-22535-1
SDG: 22-0105-14

Client Sample ID: S-12, 1'

Date Collected: 12/07/22 14:26
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22535-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42044	12/16/22 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/18/22 03:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42268	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			42216	12/19/22 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41797	12/14/22 10:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41984	12/16/22 15:06	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41479	12/09/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41945	12/16/22 03:56	CH	EET MID

Client Sample ID: S-11, 1'

Date Collected: 12/07/22 14:50
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22535-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42044	12/16/22 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/18/22 04:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42268	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			42216	12/19/22 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41797	12/14/22 10:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41984	12/16/22 15:49	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41479	12/09/22 13:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41945	12/16/22 04:03	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-22535-1
Project/Site: Chevron-Sand Dunes Pad 34 SDG: 22-0105-14

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-22535-1
Project/Site: Chevron-Sand Dunes Pad 34 SDG: 22-0105-14

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Chevron-Sand Dunes Pad 34

Job ID: 880-22535-1
SDG: 22-0105-14

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22535-1	S-12, 1'	Solid	12/07/22 14:26	12/09/22 08:55
880-22535-2	S-11, 1'	Solid	12/07/22 14:50	12/09/22 08:55

22535

No. 2433

CHAIN-OF-CUSTODY

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

DATE 12/9/2022 PAGE 1 OF 1

PO#. LAB WORK ORDER#:

PROJECT LOCATION OR NAME Chevron - Sand Dunes Pad 34

LAI PROJECT # 22-0105-14 COLLECTOR: JH + AG

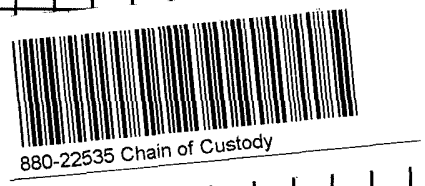
Data Reported to

TRRP report? ☐ Yes ☑ No

TIME ZONE Time zone/State: MST/MDT

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP VOC ☐	TCLP - METALS (RCRA) ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	RCI ☐	TOX ☐	TCLP ☐	TDS ☐	TSS ☐	FLASHPOINT ☐	pH ☐	% MOISTURE ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
S-12, 1'		12/7/22	1426	S	1				X		X		X	X	X																															202
S-11, 1'		1	1450	1	1				1		X		X	X	X																															
TOTAL																																														



RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	12/9/22 0855	
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 4.1/3.8 THERM#: IR2 -30
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-22535-1
SDG Number: 22-0105-14

Login Number: 22535
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/23/2023 3:31:48 PM

JOB DESCRIPTION

Sand Dunes Pad 34 2nd Spill
SDG NUMBER 22-0105-14

JOB NUMBER

880-23941-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Holly Taylor

Generated
1/23/2023 3:31:48 PM

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

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Laboratory Job ID: 880-23941-1
SDG: 22-0105-14

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-23941-1
Project/Site: Sand Dunes Pad 34 2nd Spill SDG: 22-0105-14

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

Job ID: 880-23941-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-23941-1

Receipt
The samples were received on 1/20/2023 9:08 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-13, 0.5' (880-23941-1), S-4, 1' (880-23941-2) and S-4, 3' (880-23941-3).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: S-13, 0.5' (880-23941-1), S-4, 1' (880-23941-2) and S-4, 3' (880-23941-3). 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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23941-1
Project/Site: Sand Dunes Pad 34 2nd Spill SDG: 22-0105-14

Client Sample ID: S-13, 0.5'
Lab Sample ID: 880-23941-1
Date Collected: 01/18/23 10:49 **Matrix: Solid**
Date Received: 01/20/23 09:08

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/20/23 13:28	01/21/23 20:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/20/23 13:28	01/21/23 20:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/20/23 13:28	01/21/23 20:46	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/20/23 13:28	01/21/23 20:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/20/23 13:28	01/21/23 20:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/20/23 13:28	01/21/23 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*57*	*S1-*	*70 - 130*	*01/20/23 13:28*	*01/21/23 20:46*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/20/23 13:28*	*01/21/23 20:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/23/23 13:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/23/23 13:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/20/23 14:51	01/21/23 07:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/23 14:51	01/21/23 07:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/23 14:51	01/21/23 07:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*01/20/23 14:51*	*01/21/23 07:44*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*01/20/23 14:51*	*01/21/23 07:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**197**		5.03		mg/Kg			01/21/23 05:08	1

Client Sample ID: S-4, 1'
Lab Sample ID: 880-23941-2
Date Collected: 01/18/23 10:50 **Matrix: Solid**
Date Received: 01/20/23 09:08

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/20/23 13:28	01/21/23 21:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/20/23 13:28	01/21/23 21:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/20/23 13:28	01/21/23 21:07	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/20/23 13:28	01/21/23 21:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/20/23 13:28	01/21/23 21:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/20/23 13:28	01/21/23 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*40*	*S1-*	*70 - 130*	*01/20/23 13:28*	*01/21/23 21:07*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/20/23 13:28*	*01/21/23 21:07*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23941-1
Project/Site: Sand Dunes Pad 34 2nd Spill SDG: 22-0105-14

Client Sample ID: S-4, 1'
Date Collected: 01/18/23 10:50
Date Received: 01/20/23 09:08

Lab Sample ID: 880-23941-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/23/23 13:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/23/23 13:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/20/23 14:51	01/21/23 08:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/23 14:51	01/21/23 08:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/23 14:51	01/21/23 08:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*80*		*70 - 130*	*01/20/23 14:51*	*01/21/23 08:08*	*1*
o-Terphenyl (Surr)	*75*		*70 - 130*	*01/20/23 14:51*	*01/21/23 08:08*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**239**		5.02		mg/Kg			01/21/23 05:14	1

Client Sample ID: S-4, 3'
Date Collected: 01/18/23 10:53
Date Received: 01/20/23 09:08

Lab Sample ID: 880-23941-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/20/23 13:28	01/21/23 21:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/20/23 13:28	01/21/23 21:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/20/23 13:28	01/21/23 21:28	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/20/23 13:28	01/21/23 21:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/20/23 13:28	01/21/23 21:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/20/23 13:28	01/21/23 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*59*	*S1-*	*70 - 130*	*01/20/23 13:28*	*01/21/23 21:28*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/20/23 13:28*	*01/21/23 21:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/23/23 13:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/23/23 13:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/23 14:51	01/21/23 08:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/23 14:51	01/21/23 08:31	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-23941-1
Project/Site: Sand Dunes Pad 34 2nd Spill SDG: 22-0105-14

Client Sample ID: S-4, 3' **Lab Sample ID: 880-23941-3**
Date Collected: 01/18/23 10:53 **Matrix: Solid**
Date Received: 01/20/23 09:08

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/23 14:51	01/21/23 08:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*01/20/23 14:51*	*01/21/23 08:31*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*01/20/23 14:51*	*01/21/23 08:31*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**228**		4.98		mg/Kg			01/21/23 05:20	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

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)
880-23941-1	S-13, 0.5'	57 S1-	100
880-23941-2	S-4, 1'	40 S1-	110
880-23941-3	S-4, 3'	59 S1-	93
LCS 880-44463/1-A	Lab Control Sample	98	101
LCSD 880-44463/2-A	Lab Control Sample Dup	101	105
MB 880-44462/5-A	Method Blank	78	91
MB 880-44463/5-A	Method Blank	72	97

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)
880-23941-1	S-13, 0.5'	103	90
880-23941-2	S-4, 1'	80	75
880-23941-3	S-4, 3'	97	87

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44462/5-A
Matrix: Solid
Analysis Batch: 44464

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44462

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/20/23 13:24	01/21/23 03:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/20/23 13:24	01/21/23 03:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/20/23 13:24	01/21/23 03:47	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/20/23 13:24	01/21/23 03:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/20/23 13:24	01/21/23 03:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/20/23 13:24	01/21/23 03:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*01/20/23 13:24*	*01/21/23 03:47*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/20/23 13:24*	*01/21/23 03:47*	*1*

Lab Sample ID: MB 880-44463/5-A
Matrix: Solid
Analysis Batch: 44464

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44463

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/20/23 13:28	01/21/23 14:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/20/23 13:28	01/21/23 14:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/20/23 13:28	01/21/23 14:28	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/20/23 13:28	01/21/23 14:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/20/23 13:28	01/21/23 14:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/20/23 13:28	01/21/23 14:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*01/20/23 13:28*	*01/21/23 14:28*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/20/23 13:28*	*01/21/23 14:28*	*1*

Lab Sample ID: LCS 880-44463/1-A
Matrix: Solid
Analysis Batch: 44464

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44463

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08951		mg/Kg		90	70 - 130		
Toluene			0.100	0.08534		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.08156		mg/Kg		82	70 - 130		
m,p-Xylenes			0.200	0.1685		mg/Kg		84	70 - 130		
o-Xylene			0.100	0.08596		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-44463/2-A
Matrix: Solid
Analysis Batch: 44464

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44463

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1027		mg/Kg		103	70 - 130	14	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

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

Lab Sample ID: LCSD 880-44463/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 44464 — **Prep Batch: 44463**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09723		mg/Kg		97	70 - 130	13	35
Ethylbenzene			0.100	0.09453		mg/Kg		95	70 - 130	15	35
m,p-Xylenes			0.200	0.1918		mg/Kg		96	70 - 130	13	35
o-Xylene			0.100	0.09710		mg/Kg		97	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44435/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 44501

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/21/23 03:46	1

Lab Sample ID: LCS 880-44435/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 44501

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	265.2		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-44435/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 44501

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	266.1		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

GC VOA

Prep Batch: 44462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44462/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 44463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Total/NA	Solid	5035	
880-23941-2	S-4, 1'	Total/NA	Solid	5035	
880-23941-3	S-4, 3'	Total/NA	Solid	5035	
MB 880-44463/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44463/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44463/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 44464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Total/NA	Solid	8021B	44463
880-23941-2	S-4, 1'	Total/NA	Solid	8021B	44463
880-23941-3	S-4, 3'	Total/NA	Solid	8021B	44463
MB 880-44462/5-A	Method Blank	Total/NA	Solid	8021B	44462
MB 880-44463/5-A	Method Blank	Total/NA	Solid	8021B	44463
LCS 880-44463/1-A	Lab Control Sample	Total/NA	Solid	8021B	44463
LCSD 880-44463/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44463

Analysis Batch: 44565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Total/NA	Solid	Total BTEX	
880-23941-2	S-4, 1'	Total/NA	Solid	Total BTEX	
880-23941-3	S-4, 3'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 44408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Total/NA	Solid	8015B NM	44494
880-23941-2	S-4, 1'	Total/NA	Solid	8015B NM	44494
880-23941-3	S-4, 3'	Total/NA	Solid	8015B NM	44494

Prep Batch: 44494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Total/NA	Solid	8015NM Prep	
880-23941-2	S-4, 1'	Total/NA	Solid	8015NM Prep	
880-23941-3	S-4, 3'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Total/NA	Solid	8015 NM	
880-23941-2	S-4, 1'	Total/NA	Solid	8015 NM	
880-23941-3	S-4, 3'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-23941-1
Project/Site: Sand Dunes Pad 34 2nd Spill SDG: 22-0105-14

HPLC/IC (Continued)

Leach Batch: 44435 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-2	S-4, 1'	Soluble	Solid	DI Leach	
880-23941-3	S-4, 3'	Soluble	Solid	DI Leach	
MB 880-44435/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44435/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44435/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 44501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Soluble	Solid	300.0	44435
880-23941-2	S-4, 1'	Soluble	Solid	300.0	44435
880-23941-3	S-4, 3'	Soluble	Solid	300.0	44435
MB 880-44435/1-A	Method Blank	Soluble	Solid	300.0	44435
LCS 880-44435/2-A	Lab Control Sample	Soluble	Solid	300.0	44435
LCSD 880-44435/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44435

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

Client Sample ID: S-13, 0.5'

Date Collected: 01/18/23 10:49
Date Received: 01/20/23 09:08

Lab Sample ID: 880-23941-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	44463	01/20/23 13:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/21/23 20:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44565	01/23/23 13:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			44567	01/23/23 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44494	01/20/23 14:51	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44408	01/21/23 07:44	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44435	01/20/23 11:45	KS	EET MID
Soluble	Analysis	300.0		1			44501	01/21/23 05:08	CH	EET MID

Client Sample ID: S-4, 1'

Date Collected: 01/18/23 10:50
Date Received: 01/20/23 09:08

Lab Sample ID: 880-23941-2
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	44463	01/20/23 13:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/21/23 21:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44565	01/23/23 13:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			44567	01/23/23 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44494	01/20/23 14:51	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44408	01/21/23 08:08	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44435	01/20/23 11:45	KS	EET MID
Soluble	Analysis	300.0		1			44501	01/21/23 05:14	CH	EET MID

Client Sample ID: S-4, 3'

Date Collected: 01/18/23 10:53
Date Received: 01/20/23 09:08

Lab Sample ID: 880-23941-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	44463	01/20/23 13:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/21/23 21:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44565	01/23/23 13:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			44567	01/23/23 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44494	01/20/23 14:51	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44408	01/21/23 08:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44435	01/20/23 11:45	KS	EET MID
Soluble	Analysis	300.0		1			44501	01/21/23 05:20	CH	EET MID

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-23941-1
Project/Site: Sand Dunes Pad 34 2nd Spill SDG: 22-0105-14

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-23941-1
Project/Site: Sand Dunes Pad 34 2nd Spill SDG: 22-0105-14

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23941-1	S-13, 0.5'	Solid	01/18/23 10:49	01/20/23 09:08
880-23941-2	S-4, 1'	Solid	01/18/23 10:50	01/20/23 09:08
880-23941-3	S-4, 3'	Solid	01/18/23 10:53	01/20/23 09:08

23941 No. 2824

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 11/20/2023 PAGE 1 OF 1

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Sand Dunes Pad 34 2nd Spill

LAI PROJECT # 22-0105-14 COLLECTOR RM & KG

TRRP report? ☐ Yes ☑ No

TIME ZONE Time zone/State MST / NM

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

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

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
S-13 0.5'		11/18/23	1049	S	1				X		X	
S-4, 1'		1	1050	1	1				1		1	
S-4, 3'		1	1053	1	1				1		1	

TOTAL

RELINQUISHED BY (Signature) DATE/TIME 11/20/23 0908 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 3.9/3.6 THERM# IR8 -3
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

880-23941 Chain of Custody

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-23941-1
SDG Number: 22-0105-14

Login Number: 23941
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: 880-20035-1
Laboratory Sample Delivery Group: 22-0105-14
Client Project/Site: Sand Dunes (SD) Pad 34

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

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
10/14/2022 3:56:52 PM

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

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

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

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-20035-1
Project/Site: Sand Dunes (SD) Pad 34 SDG: 22-0105-14

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
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: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Job ID: 880-20035-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-20035-1

Receipt
The samples were received on 10/6/2022 8:24 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.5º C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1, 0' (880-20035-1), S-1, 0.5' (880-20035-2), S-2, 0' (880-20035-3), S-2, 0.5' (880-20035-4), S-3, 0' (880-20035-5), S-3, 0.5' (880-20035-6), S-4, 0' (880-20035-7), S-4, 0.5' (880-20035-8), S-5, 0' (880-20035-9), S-5, 0.5' (880-20035-10), S-6, 0' (880-20035-11), S-6, 0.5' (880-20035-12), S-7, 0-0.5' (880-20035-13), S-8, 0-0.5' (880-20035-14), S-9, 0-0.5' (880-20035-15) and S-10, 0-0.5' (880-20035-16).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-19920-A-7-H). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-36730 recovered above the upper control limit for Benzene, Toluene and m,p-Xylenes. Another CCV was analyzed and acceptable within the 12 hour window; therefore, the data was qualified and reported. The associated sample is impacted: (CCV 880-36730/20).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-36766 and analytical batch 880-36730 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.

GC Semi VOA
Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-36292 and analytical batch 880-36222 was outside the upper control limits.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: S-1, 0.5' (880-20035-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-36243 and analytical batch 880-36600 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-36394 and analytical batch 880-36739 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: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-1, 0'

Date Collected: 10/05/22 10:50
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/22 08:09	10/11/22 16:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/22 08:09	10/11/22 16:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/22 08:09	10/11/22 16:54	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/11/22 08:09	10/11/22 16:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/22 08:09	10/11/22 16:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/22 08:09	10/11/22 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*10/11/22 08:09*	*10/11/22 16:54*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*10/11/22 08:09*	*10/11/22 16:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**882**		50.0		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/06/22 15:51	10/06/22 22:46	1
Diesel Range Organics (Over C10-C28)	**650**		50.0		mg/Kg		10/06/22 15:51	10/06/22 22:46	1
Oil Range Organics (Over C28-C36)	**232**		50.0		mg/Kg		10/06/22 15:51	10/06/22 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*10/06/22 15:51*	*10/06/22 22:46*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*10/06/22 15:51*	*10/06/22 22:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15200**		99.6		mg/Kg			10/10/22 18:57	20

Client Sample ID: S-1, 0.5'

Date Collected: 10/05/22 10:52
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/11/22 08:09	10/11/22 17:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/22 08:09	10/11/22 17:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/22 08:09	10/11/22 17:15	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/11/22 08:09	10/11/22 17:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/22 08:09	10/11/22 17:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/22 08:09	10/11/22 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*10/11/22 08:09*	*10/11/22 17:15*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/11/22 08:09*	*10/11/22 17:15*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-1, 0.5'

Date Collected: 10/05/22 10:52
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/06/22 15:51	10/06/22 23:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/06/22 15:51	10/06/22 23:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/06/22 15:51	10/06/22 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*77*		*70 - 130*	*10/06/22 15:51*	*10/06/22 23:07*	*1*
o-Terphenyl (Surr)	*69*	*S1-*	*70 - 130*	*10/06/22 15:51*	*10/06/22 23:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7860**		49.9		mg/Kg			10/10/22 19:20	10

Client Sample ID: S-2, 0'

Date Collected: 10/05/22 10:58
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/11/22 08:09	10/11/22 17:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/11/22 08:09	10/11/22 17:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/11/22 08:09	10/11/22 17:35	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		10/11/22 08:09	10/11/22 17:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/11/22 08:09	10/11/22 17:35	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/11/22 08:09	10/11/22 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*10/11/22 08:09*	*10/11/22 17:35*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/11/22 08:09*	*10/11/22 17:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**5340**		49.9		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/06/22 15:51	10/06/22 23:29	1
Diesel Range Organics (Over C10-C28)	**4120**		49.9		mg/Kg		10/06/22 15:51	10/06/22 23:29	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-20035-1
Project/Site: Sand Dunes (SD) Pad 34 SDG: 22-0105-14

Client Sample ID: S-2, 0' Lab Sample ID: 880-20035-3

Date Collected: 10/05/22 10:58 **Matrix: Solid**
Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	1220		49.9		mg/Kg		10/06/22 15:51	10/06/22 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*79*		*70 - 130*	*10/06/22 15:51*	*10/06/22 23:29*	*1*
o-Terphenyl (Surr)	*77*		*70 - 130*	*10/06/22 15:51*	*10/06/22 23:29*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17200	F1	99.4		mg/Kg			10/10/22 19:26	20

Client Sample ID: S-2, 0.5' Lab Sample ID: 880-20035-4

Date Collected: 10/05/22 11:03 **Matrix: Solid**
Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/11/22 08:09	10/11/22 17:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/11/22 08:09	10/11/22 17:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/11/22 08:09	10/11/22 17:56	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		10/11/22 08:09	10/11/22 17:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/11/22 08:09	10/11/22 17:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/11/22 08:09	10/11/22 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*10/11/22 08:09*	*10/11/22 17:56*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/11/22 08:09*	*10/11/22 17:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	226		49.9		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/06/22 15:51	10/06/22 23:50	1
Diesel Range Organics (Over C10-C28)	226		49.9		mg/Kg		10/06/22 15:51	10/06/22 23:50	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/06/22 15:51	10/06/22 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*10/06/22 15:51*	*10/06/22 23:50*	*1*
o-Terphenyl (Surr)	*78*		*70 - 130*	*10/06/22 15:51*	*10/06/22 23:50*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3890		25.0		mg/Kg			10/10/22 19:43	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-3, 0'

Date Collected: 10/05/22 11:06
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/22 08:09	10/11/22 18:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/22 08:09	10/11/22 18:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/22 08:09	10/11/22 18:17	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/11/22 08:09	10/11/22 18:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/22 08:09	10/11/22 18:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/22 08:09	10/11/22 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*10/11/22 08:09*	*10/11/22 18:17*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/11/22 08:09*	*10/11/22 18:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**538**		50.0		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/06/22 15:51	10/07/22 00:11	1
Diesel Range Organics (Over C10-C28)	**410**		50.0		mg/Kg		10/06/22 15:51	10/07/22 00:11	1
Oil Range Organics (Over C28-C36)	**128**		50.0		mg/Kg		10/06/22 15:51	10/07/22 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*10/06/22 15:51*	*10/07/22 00:11*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*10/06/22 15:51*	*10/07/22 00:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14900**		250		mg/Kg			10/10/22 19:49	50

Client Sample ID: S-3, 0.5'

Date Collected: 10/05/22 11:09
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/11/22 08:09	10/11/22 18:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/11/22 08:09	10/11/22 18:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/11/22 08:09	10/11/22 18:38	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		10/11/22 08:09	10/11/22 18:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/11/22 08:09	10/11/22 18:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/11/22 08:09	10/11/22 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*10/11/22 08:09*	*10/11/22 18:38*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*10/11/22 08:09*	*10/11/22 18:38*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-3, 0.5'

Date Collected: 10/05/22 11:09
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/06/22 15:51	10/07/22 00:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/06/22 15:51	10/07/22 00:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/06/22 15:51	10/07/22 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*79*		*70 - 130*	*10/06/22 15:51*	*10/07/22 00:33*	*1*
o-Terphenyl (Surr)	*73*		*70 - 130*	*10/06/22 15:51*	*10/07/22 00:33*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1240**		24.8		mg/Kg			10/10/22 20:07	5

Client Sample ID: S-4, 0'

Date Collected: 10/05/22 11:13
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/22 16:29	10/12/22 18:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/22 16:29	10/12/22 18:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/22 16:29	10/12/22 18:07	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/11/22 16:29	10/12/22 18:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/22 16:29	10/12/22 18:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/11/22 16:29	10/12/22 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*10/11/22 16:29*	*10/12/22 18:07*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*10/11/22 16:29*	*10/12/22 18:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1530**		50.0		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/06/22 15:51	10/07/22 00:54	1
Diesel Range Organics (Over C10-C28)	**1150**		50.0		mg/Kg		10/06/22 15:51	10/07/22 00:54	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-20035-1
Project/Site: Sand Dunes (SD) Pad 34 SDG: 22-0105-14

Client Sample ID: S-4, 0' Lab Sample ID: 880-20035-7
Date Collected: 10/05/22 11:13 **Matrix: Solid**
Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	377		50.0		mg/Kg		10/06/22 15:51	10/07/22 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*79*		*70 - 130*	*10/06/22 15:51*	*10/07/22 00:54*	*1*
o-Terphenyl (Surr)	*73*		*70 - 130*	*10/06/22 15:51*	*10/07/22 00:54*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15600		100		mg/Kg			10/10/22 20:13	20

Client Sample ID: S-4, 0.5' Lab Sample ID: 880-20035-8
Date Collected: 10/05/22 11:15 **Matrix: Solid**
Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 06:02	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		10/12/22 15:17	10/13/22 06:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 06:02	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/12/22 15:17	10/13/22 06:02	1
o-Xylene	<0.00200	U *- F1 *1	0.00200		mg/Kg		10/12/22 15:17	10/13/22 06:02	1
Xylenes, Total	<0.00399	U *- *1	0.00399		mg/Kg		10/12/22 15:17	10/13/22 06:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/12/22 15:17*	*10/13/22 06:02*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*10/12/22 15:17*	*10/13/22 06:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	122		50.0		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/06/22 15:51	10/07/22 01:15	1
Diesel Range Organics (Over C10-C28)	122		50.0		mg/Kg		10/06/22 15:51	10/07/22 01:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/06/22 15:51	10/07/22 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*10/06/22 15:51*	*10/07/22 01:15*	*1*
o-Terphenyl (Surr)	*74*		*70 - 130*	*10/06/22 15:51*	*10/07/22 01:15*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4930		50.5		mg/Kg			10/10/22 20:18	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-5, 0'

Date Collected: 10/05/22 11:18
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/13/22 13:16	10/14/22 01:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/13/22 13:16	10/14/22 01:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/13/22 13:16	10/14/22 01:01	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		10/13/22 13:16	10/14/22 01:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/13/22 13:16	10/14/22 01:01	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/13/22 13:16	10/14/22 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*10/13/22 13:16*	*10/14/22 01:01*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*10/13/22 13:16*	*10/14/22 01:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**163**		49.8		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/06/22 15:51	10/07/22 01:59	1
Diesel Range Organics (Over C10-C28)	**163**		49.8		mg/Kg		10/06/22 15:51	10/07/22 01:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/06/22 15:51	10/07/22 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*10/06/22 15:51*	*10/07/22 01:59*	*1*
o-Terphenyl (Surr)	*75*		*70 - 130*	*10/06/22 15:51*	*10/07/22 01:59*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12200**		99.4		mg/Kg			10/10/22 20:24	20

Client Sample ID: S-5, 0.5'

Date Collected: 10/05/22 11:20
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/13/22 13:16	10/14/22 01:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/13/22 13:16	10/14/22 01:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/13/22 13:16	10/14/22 01:22	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/13/22 13:16	10/14/22 01:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/13/22 13:16	10/14/22 01:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/13/22 13:16	10/14/22 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*10/13/22 13:16*	*10/14/22 01:22*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*10/13/22 13:16*	*10/14/22 01:22*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-5, 0.5'

Date Collected: 10/05/22 11:20
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/06/22 15:51	10/07/22 02:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/06/22 15:51	10/07/22 02:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/06/22 15:51	10/07/22 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*78*		*70 - 130*	*10/06/22 15:51*	*10/07/22 02:20*	*1*
o-Terphenyl (Surr)	*71*		*70 - 130*	*10/06/22 15:51*	*10/07/22 02:20*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3970**		49.8		mg/Kg			10/10/22 20:30	10

Client Sample ID: S-6, 0'

Date Collected: 10/05/22 11:23
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/13/22 13:16	10/14/22 01:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/13/22 13:16	10/14/22 01:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/13/22 13:16	10/14/22 01:42	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/13/22 13:16	10/14/22 01:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/13/22 13:16	10/14/22 01:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/13/22 13:16	10/14/22 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*10/13/22 13:16*	*10/14/22 01:42*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/13/22 13:16*	*10/14/22 01:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**637**		50.0		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/06/22 15:51	10/07/22 02:42	1
Diesel Range Organics (Over C10-C28)	**473**		50.0		mg/Kg		10/06/22 15:51	10/07/22 02:42	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-6, 0'

Date Collected: 10/05/22 11:23
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	**164**		50.0		mg/Kg		10/06/22 15:51	10/07/22 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*10/06/22 15:51*	*10/07/22 02:42*	*1*
o-Terphenyl (Surr)	*73*		*70 - 130*	*10/06/22 15:51*	*10/07/22 02:42*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9940**		99.8		mg/Kg			10/10/22 20:36	20

Client Sample ID: S-6, 0.5'

Date Collected: 10/05/22 11:26
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/13/22 13:16	10/14/22 02:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/13/22 13:16	10/14/22 02:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/13/22 13:16	10/14/22 02:02	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		10/13/22 13:16	10/14/22 02:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/13/22 13:16	10/14/22 02:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/13/22 13:16	10/14/22 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/13/22 13:16*	*10/14/22 02:02*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*10/13/22 13:16*	*10/14/22 02:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**72.6**		50.0		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/06/22 15:51	10/07/22 03:03	1
Diesel Range Organics (Over C10-C28)	**72.6**		50.0		mg/Kg		10/06/22 15:51	10/07/22 03:03	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/06/22 15:51	10/07/22 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*77*		*70 - 130*	*10/06/22 15:51*	*10/07/22 03:03*	*1*
o-Terphenyl (Surr)	*71*		*70 - 130*	*10/06/22 15:51*	*10/07/22 03:03*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1760**		24.8		mg/Kg			10/10/22 20:42	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-7, 0-0.5'

Lab Sample ID: 880-20035-13
Matrix: Solid
Date Collected: 10/05/22 11:29
Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/13/22 13:16	10/14/22 02:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/13/22 13:16	10/14/22 02:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/13/22 13:16	10/14/22 02:23	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/13/22 13:16	10/14/22 02:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/13/22 13:16	10/14/22 02:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/13/22 13:16	10/14/22 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*10/13/22 13:16*	*10/14/22 02:23*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*10/13/22 13:16*	*10/14/22 02:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**364**		50.0		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/06/22 15:51	10/07/22 03:25	1
Diesel Range Organics (Over C10-C28)	**275**		50.0		mg/Kg		10/06/22 15:51	10/07/22 03:25	1
Oil Range Organics (Over C28-C36)	**88.9**		50.0		mg/Kg		10/06/22 15:51	10/07/22 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*10/06/22 15:51*	*10/07/22 03:25*	*1*
o-Terphenyl (Surr)	*81*		*70 - 130*	*10/06/22 15:51*	*10/07/22 03:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2000**	**F1**	24.8		mg/Kg			10/11/22 21:10	5

Client Sample ID: S-8, 0-0.5'

Lab Sample ID: 880-20035-14
Matrix: Solid
Date Collected: 10/05/22 11:31
Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 14:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 14:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 14:45	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/12/22 15:17	10/13/22 14:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 14:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/12/22 15:17	10/13/22 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*10/12/22 15:17*	*10/13/22 14:45*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*10/12/22 15:17*	*10/13/22 14:45*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-8, 0-0.5'

Lab Sample ID: 880-20035-14
Matrix: Solid
Date Collected: 10/05/22 11:31
Date Received: 10/06/22 08:24

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**7990**		49.8		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**71.4**		49.8		mg/Kg		10/06/22 15:51	10/07/22 03:47	1
Diesel Range Organics (Over C10-C28)	**7770**		49.8		mg/Kg		10/06/22 15:51	10/07/22 03:47	1
Oil Range Organics (Over C28-C36)	**152**		49.8		mg/Kg		10/06/22 15:51	10/07/22 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*10/06/22 15:51*	*10/07/22 03:47*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*10/06/22 15:51*	*10/07/22 03:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6240**		50.0		mg/Kg			10/11/22 21:26	10

Client Sample ID: S-9, 0-0.5'

Lab Sample ID: 880-20035-15
Matrix: Solid
Date Collected: 10/05/22 11:35
Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0401	U	0.0401		mg/Kg		10/13/22 13:34	10/14/22 08:38	20
Toluene	<0.0401	U	0.0401		mg/Kg		10/13/22 13:34	10/14/22 08:38	20
Ethylbenzene	<0.0401	U	0.0401		mg/Kg		10/13/22 13:34	10/14/22 08:38	20
m,p-Xylenes	**0.119**		0.0802		mg/Kg		10/13/22 13:34	10/14/22 08:38	20
o-Xylene	**0.0680**		0.0401		mg/Kg		10/13/22 13:34	10/14/22 08:38	20
Xylenes, Total	**0.187**		0.0802		mg/Kg		10/13/22 13:34	10/14/22 08:38	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*10/13/22 13:34*	*10/14/22 08:38*	*20*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*10/13/22 13:34*	*10/14/22 08:38*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.187**		0.0802		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**71.8**		49.8		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/06/22 15:51	10/07/22 04:09	1
Diesel Range Organics (Over C10-C28)	**71.8**		49.8		mg/Kg		10/06/22 15:51	10/07/22 04:09	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-20035-1
Project/Site: Sand Dunes (SD) Pad 34 SDG: 22-0105-14

Client Sample ID: S-9, 0-0.5' Lab Sample ID: 880-20035-15
Date Collected: 10/05/22 11:35 **Matrix: Solid**
Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/06/22 15:51	10/07/22 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*10/06/22 15:51*	*10/07/22 04:09*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*10/06/22 15:51*	*10/07/22 04:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3770**		49.9		mg/Kg			10/11/22 21:32	10

Client Sample ID: S-10, 0-0.5' Lab Sample ID: 880-20035-16
Date Collected: 10/05/22 11:37 **Matrix: Solid**
Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/13/22 13:34	10/14/22 05:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/13/22 13:34	10/14/22 05:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/13/22 13:34	10/14/22 05:34	1
m,p-Xylenes	**0.00744**		0.00398		mg/Kg		10/13/22 13:34	10/14/22 05:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/13/22 13:34	10/14/22 05:34	1
Xylenes, Total	**0.00744**		0.00398		mg/Kg		10/13/22 13:34	10/14/22 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*10/13/22 13:34*	*10/14/22 05:34*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/13/22 13:34*	*10/14/22 05:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00744**		0.00398		mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**64.9**		49.8		mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/06/22 15:51	10/07/22 04:30	1
Diesel Range Organics (Over C10-C28)	**64.9**		49.8		mg/Kg		10/06/22 15:51	10/07/22 04:30	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/06/22 15:51	10/07/22 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*10/06/22 15:51*	*10/07/22 04:30*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*10/06/22 15:51*	*10/07/22 04:30*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**376**		4.97		mg/Kg			10/11/22 21:37	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

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)
880-20035-1	S-1, 0'	115	98
880-20035-2	S-1, 0.5'	119	100
880-20035-3	S-2, 0'	112	94
880-20035-4	S-2, 0.5'	120	92
880-20035-5	S-3, 0'	110	96
880-20035-6	S-3, 0.5'	114	97
880-20035-7	S-4, 0'	105	103
880-20035-8	S-4, 0.5'	98	90
880-20035-8 MS	S-4, 0.5'	120	113
880-20035-8 MSD	S-4, 0.5'	109	95
880-20035-9	S-5, 0'	85	97
880-20035-10	S-5, 0.5'	101	104
880-20035-11	S-6, 0'	99	100
880-20035-12	S-6, 0.5'	98	105
880-20035-13	S-7, 0-0.5'	103	103
880-20035-14	S-8, 0-0.5'	123	80
880-20035-15	S-9, 0-0.5'	89	84
880-20035-16	S-10, 0-0.5'	102	102
LCS 880-36628/1-A	Lab Control Sample	89	92
LCS 880-36699/1-A	Lab Control Sample	100	97
LCS 880-36766/1-A	Lab Control Sample	116	98
LCS 880-36882/1-A	Lab Control Sample	105	102
LCSD 880-36628/2-A	Lab Control Sample Dup	88	93
LCSD 880-36699/2-A	Lab Control Sample Dup	103	104
LCSD 880-36766/2-A	Lab Control Sample Dup	114	100
LCSD 880-36882/2-A	Lab Control Sample Dup	100	98
MB 880-36628/5-A	Method Blank	106	84
MB 880-36699/5-A	Method Blank	90	112
MB 880-36730/8	Method Blank	70	89
MB 880-36731/5-A	Method Blank	88	108
MB 880-36766/5-A	Method Blank	71	87
MB 880-36882/5-A	Method Blank	88	114

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)
880-20035-1	S-1, 0'	89	86
880-20035-2	S-1, 0.5'	77	69 S1-
880-20035-3	S-2, 0'	79	77
880-20035-4	S-2, 0.5'	87	78
880-20035-5	S-3, 0'	89	84
880-20035-6	S-3, 0.5'	79	73
880-20035-7	S-4, 0'	79	73

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-20035-1
Project/Site: Sand Dunes (SD) Pad 34 SDG: 22-0105-14

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)								
880-20035-8	S-4, 0.5'	83	74								
880-20035-9	S-5, 0'	84	75								
880-20035-10	S-5, 0.5'	78	71								
880-20035-11	S-6, 0'	81	73								
880-20035-12	S-6, 0.5'	77	71								
880-20035-13	S-7, 0-0.5'	88	81								
880-20035-14	S-8, 0-0.5'	92	108								
880-20035-15	S-9, 0-0.5'	90	84								
880-20035-16	S-10, 0-0.5'	88	82								
LCS 880-36292/2-A	Lab Control Sample	95	92								
LCSD 880-36292/3-A	Lab Control Sample Dup	94	90								
MB 880-36292/1-A	Method Blank	11 S1-	13 S1-								

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-36628/5-A
Matrix: Solid
Analysis Batch: 36625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36628

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/22 08:09	10/11/22 10:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/22 08:09	10/11/22 10:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/22 08:09	10/11/22 10:38	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/11/22 08:09	10/11/22 10:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/22 08:09	10/11/22 10:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/22 08:09	10/11/22 10:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*10/11/22 08:09*	*10/11/22 10:38*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*10/11/22 08:09*	*10/11/22 10:38*	*1*

Lab Sample ID: LCS 880-36628/1-A
Matrix: Solid
Analysis Batch: 36625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36628

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1103		mg/Kg		110	70 - 130		
Toluene			0.100	0.1115		mg/Kg		112	70 - 130		
Ethylbenzene			0.100	0.1048		mg/Kg		105	70 - 130		
m,p-Xylenes			0.200	0.2169		mg/Kg		108	70 - 130		
o-Xylene			0.100	0.1075		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-36628/2-A
Matrix: Solid
Analysis Batch: 36625

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36628

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1090		mg/Kg		109	70 - 130	1	35
Toluene			0.100	0.1103		mg/Kg		110	70 - 130	1	35
Ethylbenzene			0.100	0.1027		mg/Kg		103	70 - 130	2	35
m,p-Xylenes			0.200	0.2070		mg/Kg		104	70 - 130	5	35
o-Xylene			0.100	0.1038		mg/Kg		104	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 880-36699/5-A
Matrix: Solid
Analysis Batch: 36717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36699

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/22 16:29	10/12/22 11:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/22 16:29	10/12/22 11:29	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

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

Lab Sample ID: MB 880-36699/5-A
Matrix: Solid
Analysis Batch: 36717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36699

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/22 16:29	10/12/22 11:29	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/11/22 16:29	10/12/22 11:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/22 16:29	10/12/22 11:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/22 16:29	10/12/22 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*10/11/22 16:29*	*10/12/22 11:29*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*10/11/22 16:29*	*10/12/22 11:29*	*1*

Lab Sample ID: LCS 880-36699/1-A
Matrix: Solid
Analysis Batch: 36717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36699

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08151		mg/Kg		82	70 - 130		
Toluene			0.100	0.08917		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.07884		mg/Kg		79	70 - 130		
m,p-Xylenes			0.200	0.1575		mg/Kg		79	70 - 130		
o-Xylene			0.100	0.07833		mg/Kg		78	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-36699/2-A
Matrix: Solid
Analysis Batch: 36717

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36699

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09035		mg/Kg		90	70 - 130	10	35
Toluene			0.100	0.09725		mg/Kg		97	70 - 130	9	35
Ethylbenzene			0.100	0.08683		mg/Kg		87	70 - 130	10	35
m,p-Xylenes			0.200	0.1722		mg/Kg		86	70 - 130	9	35
o-Xylene			0.100	0.08568		mg/Kg		86	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-36730/8
Matrix: Solid
Analysis Batch: 36730

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			10/12/22 20:09	1
Toluene	<0.00200	U	0.00200		mg/Kg			10/12/22 20:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			10/12/22 20:09	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg			10/12/22 20:09	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

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

Lab Sample ID: MB 880-36730/8
Matrix: Solid
Analysis Batch: 36730

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg			10/12/22 20:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			10/12/22 20:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*		*10/12/22 20:09*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*10/12/22 20:09*	*1*

Lab Sample ID: MB 880-36731/5-A
Matrix: Solid
Analysis Batch: 36813

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36731

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/12/22 10:00	10/13/22 11:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/12/22 10:00	10/13/22 11:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/12/22 10:00	10/13/22 11:21	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/12/22 10:00	10/13/22 11:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/12/22 10:00	10/13/22 11:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/12/22 10:00	10/13/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*10/12/22 10:00*	*10/13/22 11:21*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*10/12/22 10:00*	*10/13/22 11:21*	*1*

Lab Sample ID: MB 880-36766/5-A
Matrix: Solid
Analysis Batch: 36730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36766

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 05:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 05:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 05:37	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/12/22 15:17	10/13/22 05:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/12/22 15:17	10/13/22 05:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/12/22 15:17	10/13/22 05:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*10/12/22 15:17*	*10/13/22 05:37*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/12/22 15:17*	*10/13/22 05:37*	*1*

Lab Sample ID: LCS 880-36766/1-A
Matrix: Solid
Analysis Batch: 36730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1072		mg/Kg		107	70 - 130
Toluene	0.100	0.09832		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130
m,p-Xylenes	0.200	0.2239		mg/Kg		112	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

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

Lab Sample ID: LCS 880-36766/1-A
Matrix: Solid
Analysis Batch: 36730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36766

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1017		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-36766/2-A
Matrix: Solid
Analysis Batch: 36730

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36766

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09483		mg/Kg		95	70 - 130	12	35
Toluene			0.100	0.08791		mg/Kg		88	70 - 130	11	35
Ethylbenzene			0.100	0.09723		mg/Kg		97	70 - 130	10	35
m,p-Xylenes			0.200	0.2023		mg/Kg		101	70 - 130	10	35
o-Xylene			0.100	0.09285		mg/Kg		93	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-20035-8 MS
Matrix: Solid
Analysis Batch: 36730

Client Sample ID: S-4, 0.5'
Prep Type: Total/NA
Prep Batch: 36766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0996	0.1017		mg/Kg		102	70 - 130		
Toluene	<0.00200	U *- *1	0.0996	0.09605		mg/Kg		96	70 - 130		
Ethylbenzene	<0.00200	U	0.0996	0.08450		mg/Kg		85	70 - 130		
m,p-Xylenes	<0.00399	U	0.199	0.1729		mg/Kg		87	70 - 130		
o-Xylene	<0.00200	U *- F1 *1	0.0996	0.07821		mg/Kg		79	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-20035-8 MSD
Matrix: Solid
Analysis Batch: 36730

Client Sample ID: S-4, 0.5'
Prep Type: Total/NA
Prep Batch: 36766

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.08868		mg/Kg		89	70 - 130	14	35
Toluene	<0.00200	U *- *1	0.0994	0.08189		mg/Kg		82	70 - 130	16	35
Ethylbenzene	<0.00200	U	0.0994	0.07233		mg/Kg		73	70 - 130	16	35
m,p-Xylenes	<0.00399	U	0.199	0.1456		mg/Kg		73	70 - 130	17	35
o-Xylene	<0.00200	U *- F1 *1	0.0994	0.06724	F1	mg/Kg		68	70 - 130	15	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

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

Lab Sample ID: 880-20035-8 MSD
Matrix: Solid
Analysis Batch: 36730

Client Sample ID: S-4, 0.5'
Prep Type: Total/NA
Prep Batch: 36766

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-36882/5-A
Matrix: Solid
Analysis Batch: 36813

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36882

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/13/22 13:16	10/14/22 00:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/13/22 13:16	10/14/22 00:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/13/22 13:16	10/14/22 00:12	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/13/22 13:16	10/14/22 00:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/13/22 13:16	10/14/22 00:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/13/22 13:16	10/14/22 00:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/13/22 13:16	10/14/22 00:12	1
1,4-Difluorobenzene (Surr)	114		70 - 130	10/13/22 13:16	10/14/22 00:12	1

Lab Sample ID: LCS 880-36882/1-A
Matrix: Solid
Analysis Batch: 36813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36882

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09905		mg/Kg		99	70 - 130		
Toluene			0.100	0.1048		mg/Kg		105	70 - 130		
Ethylbenzene			0.100	0.09399		mg/Kg		94	70 - 130		
m,p-Xylenes			0.200	0.1893		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09263		mg/Kg		93	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-36882/2-A
Matrix: Solid
Analysis Batch: 36813

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36882

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09547		mg/Kg		95	70 - 130	4	35
Toluene			0.100	0.1023		mg/Kg		102	70 - 130	2	35
Ethylbenzene			0.100	0.09025		mg/Kg		90	70 - 130	4	35
m,p-Xylenes			0.200	0.1844		mg/Kg		92	70 - 130	3	35
o-Xylene			0.100	0.09137		mg/Kg		91	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

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

Lab Sample ID: LCSD 880-36882/2-A
Matrix: Solid
Analysis Batch: 36813

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36882

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

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

Lab Sample ID: MB 880-36292/1-A
Matrix: Solid
Analysis Batch: 36222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 36292

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		10/06/22 15:51	10/06/22 19:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/06/22 15:51	10/06/22 19:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/06/22 15:51	10/06/22 19:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	11	S1-	70 - 130	10/06/22 15:51	10/06/22 19:28	1
o-Terphenyl (Surr)	13	S1-	70 - 130	10/06/22 15:51	10/06/22 19:28	1

Lab Sample ID: LCS 880-36292/2-A
Matrix: Solid
Analysis Batch: 36222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 36292

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	954.5		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	872.9		mg/Kg		87	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-36292/3-A
Matrix: Solid
Analysis Batch: 36222

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 36292

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	937.8		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	848.7		mg/Kg		85	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	94		70 - 130
o-Terphenyl (Surr)	90		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-36243/1-A
Matrix: Solid
Analysis Batch: 36600

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			10/10/22 17:47	1

Lab Sample ID: LCS 880-36243/2-A
Matrix: Solid
Analysis Batch: 36600

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	256.7		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-36243/3-A
Matrix: Solid
Analysis Batch: 36600

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	6	20

Lab Sample ID: 880-20035-3 MS
Matrix: Solid
Analysis Batch: 36600

Client Sample ID: S-2, 0'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	17200	F1	4970	19830	F1	mg/Kg		54	90 - 110		

Lab Sample ID: 880-20035-3 MSD
Matrix: Solid
Analysis Batch: 36600

Client Sample ID: S-2, 0'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	17200	F1	4970	20840	F1	mg/Kg		74	90 - 110	5	20

Lab Sample ID: MB 880-36394/1-A
Matrix: Solid
Analysis Batch: 36739

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			10/11/22 20:54	1

Lab Sample ID: LCS 880-36394/2-A
Matrix: Solid
Analysis Batch: 36739

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.9		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-36394/3-A
Matrix: Solid
Analysis Batch: 36739

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	269.0		mg/Kg		108	90 - 110	4	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-20035-13 MS
Matrix: Solid
Analysis Batch: 36739

Client Sample ID: S-7, 0-0.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2000	F1	1240	3288		mg/Kg		104	90 - 110		

Lab Sample ID: 880-20035-13 MSD
Matrix: Solid
Analysis Batch: 36739

Client Sample ID: S-7, 0-0.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2000	F1	1240	2767	F1	mg/Kg		62	90 - 110	17	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

GC VOA

Analysis Batch: 36625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Total/NA	Solid	8021B	36628
880-20035-2	S-1, 0.5'	Total/NA	Solid	8021B	36628
880-20035-3	S-2, 0'	Total/NA	Solid	8021B	36628
880-20035-4	S-2, 0.5'	Total/NA	Solid	8021B	36628
880-20035-5	S-3, 0'	Total/NA	Solid	8021B	36628
880-20035-6	S-3, 0.5'	Total/NA	Solid	8021B	36628
MB 880-36628/5-A	Method Blank	Total/NA	Solid	8021B	36628
LCS 880-36628/1-A	Lab Control Sample	Total/NA	Solid	8021B	36628
LCSD 880-36628/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36628

Prep Batch: 36628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Total/NA	Solid	5035	
880-20035-2	S-1, 0.5'	Total/NA	Solid	5035	
880-20035-3	S-2, 0'	Total/NA	Solid	5035	
880-20035-4	S-2, 0.5'	Total/NA	Solid	5035	
880-20035-5	S-3, 0'	Total/NA	Solid	5035	
880-20035-6	S-3, 0.5'	Total/NA	Solid	5035	
MB 880-36628/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36628/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36628/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 36699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-7	S-4, 0'	Total/NA	Solid	5035	
MB 880-36699/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36699/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36699/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 36717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-7	S-4, 0'	Total/NA	Solid	8021B	36699
MB 880-36699/5-A	Method Blank	Total/NA	Solid	8021B	36699
LCS 880-36699/1-A	Lab Control Sample	Total/NA	Solid	8021B	36699
LCSD 880-36699/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36699

Analysis Batch: 36730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-8	S-4, 0.5'	Total/NA	Solid	8021B	36766
880-20035-14	S-8, 0-0.5'	Total/NA	Solid	8021B	36766
MB 880-36730/8	Method Blank	Total/NA	Solid	8021B	
MB 880-36766/5-A	Method Blank	Total/NA	Solid	8021B	36766
LCS 880-36766/1-A	Lab Control Sample	Total/NA	Solid	8021B	36766
LCSD 880-36766/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36766
880-20035-8 MS	S-4, 0.5'	Total/NA	Solid	8021B	36766
880-20035-8 MSD	S-4, 0.5'	Total/NA	Solid	8021B	36766

Prep Batch: 36731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-36731/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

GC VOA

Analysis Batch: 36756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Total/NA	Solid	Total BTEX	
880-20035-2	S-1, 0.5'	Total/NA	Solid	Total BTEX	
880-20035-3	S-2, 0'	Total/NA	Solid	Total BTEX	
880-20035-4	S-2, 0.5'	Total/NA	Solid	Total BTEX	
880-20035-5	S-3, 0'	Total/NA	Solid	Total BTEX	
880-20035-6	S-3, 0.5'	Total/NA	Solid	Total BTEX	
880-20035-7	S-4, 0'	Total/NA	Solid	Total BTEX	
880-20035-8	S-4, 0.5'	Total/NA	Solid	Total BTEX	
880-20035-9	S-5, 0'	Total/NA	Solid	Total BTEX	
880-20035-10	S-5, 0.5'	Total/NA	Solid	Total BTEX	
880-20035-11	S-6, 0'	Total/NA	Solid	Total BTEX	
880-20035-12	S-6, 0.5'	Total/NA	Solid	Total BTEX	
880-20035-13	S-7, 0-0.5'	Total/NA	Solid	Total BTEX	
880-20035-14	S-8, 0-0.5'	Total/NA	Solid	Total BTEX	
880-20035-15	S-9, 0-0.5'	Total/NA	Solid	Total BTEX	
880-20035-16	S-10, 0-0.5'	Total/NA	Solid	Total BTEX	

Prep Batch: 36766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-8	S-4, 0.5'	Total/NA	Solid	5035	
880-20035-14	S-8, 0-0.5'	Total/NA	Solid	5035	
MB 880-36766/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36766/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36766/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20035-8 MS	S-4, 0.5'	Total/NA	Solid	5035	
880-20035-8 MSD	S-4, 0.5'	Total/NA	Solid	5035	

Analysis Batch: 36813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-9	S-5, 0'	Total/NA	Solid	8021B	36882
880-20035-10	S-5, 0.5'	Total/NA	Solid	8021B	36882
880-20035-11	S-6, 0'	Total/NA	Solid	8021B	36882
880-20035-12	S-6, 0.5'	Total/NA	Solid	8021B	36882
880-20035-13	S-7, 0-0.5'	Total/NA	Solid	8021B	36882
880-20035-15	S-9, 0-0.5'	Total/NA	Solid	8021B	36882
880-20035-16	S-10, 0-0.5'	Total/NA	Solid	8021B	36882
MB 880-36731/5-A	Method Blank	Total/NA	Solid	8021B	36731
MB 880-36882/5-A	Method Blank	Total/NA	Solid	8021B	36882
LCS 880-36882/1-A	Lab Control Sample	Total/NA	Solid	8021B	36882
LCSD 880-36882/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36882

Prep Batch: 36882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-9	S-5, 0'	Total/NA	Solid	5035	
880-20035-10	S-5, 0.5'	Total/NA	Solid	5035	
880-20035-11	S-6, 0'	Total/NA	Solid	5035	
880-20035-12	S-6, 0.5'	Total/NA	Solid	5035	
880-20035-13	S-7, 0-0.5'	Total/NA	Solid	5035	
880-20035-15	S-9, 0-0.5'	Total/NA	Solid	5035	
880-20035-16	S-10, 0-0.5'	Total/NA	Solid	5035	
MB 880-36882/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

GC VOA (Continued)

Prep Batch: 36882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-36882/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36882/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 36222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Total/NA	Solid	8015B NM	36292
880-20035-2	S-1, 0.5'	Total/NA	Solid	8015B NM	36292
880-20035-3	S-2, 0'	Total/NA	Solid	8015B NM	36292
880-20035-4	S-2, 0.5'	Total/NA	Solid	8015B NM	36292
880-20035-5	S-3, 0'	Total/NA	Solid	8015B NM	36292
880-20035-6	S-3, 0.5'	Total/NA	Solid	8015B NM	36292
880-20035-7	S-4, 0'	Total/NA	Solid	8015B NM	36292
880-20035-8	S-4, 0.5'	Total/NA	Solid	8015B NM	36292
880-20035-9	S-5, 0'	Total/NA	Solid	8015B NM	36292
880-20035-10	S-5, 0.5'	Total/NA	Solid	8015B NM	36292
880-20035-11	S-6, 0'	Total/NA	Solid	8015B NM	36292
880-20035-12	S-6, 0.5'	Total/NA	Solid	8015B NM	36292
880-20035-13	S-7, 0-0.5'	Total/NA	Solid	8015B NM	36292
880-20035-14	S-8, 0-0.5'	Total/NA	Solid	8015B NM	36292
880-20035-15	S-9, 0-0.5'	Total/NA	Solid	8015B NM	36292
880-20035-16	S-10, 0-0.5'	Total/NA	Solid	8015B NM	36292
MB 880-36292/1-A	Method Blank	Total/NA	Solid	8015B NM	36292
LCS 880-36292/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36292
LCSD 880-36292/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36292

Prep Batch: 36292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Total/NA	Solid	8015NM Prep	
880-20035-2	S-1, 0.5'	Total/NA	Solid	8015NM Prep	
880-20035-3	S-2, 0'	Total/NA	Solid	8015NM Prep	
880-20035-4	S-2, 0.5'	Total/NA	Solid	8015NM Prep	
880-20035-5	S-3, 0'	Total/NA	Solid	8015NM Prep	
880-20035-6	S-3, 0.5'	Total/NA	Solid	8015NM Prep	
880-20035-7	S-4, 0'	Total/NA	Solid	8015NM Prep	
880-20035-8	S-4, 0.5'	Total/NA	Solid	8015NM Prep	
880-20035-9	S-5, 0'	Total/NA	Solid	8015NM Prep	
880-20035-10	S-5, 0.5'	Total/NA	Solid	8015NM Prep	
880-20035-11	S-6, 0'	Total/NA	Solid	8015NM Prep	
880-20035-12	S-6, 0.5'	Total/NA	Solid	8015NM Prep	
880-20035-13	S-7, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-20035-14	S-8, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-20035-15	S-9, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-20035-16	S-10, 0-0.5'	Total/NA	Solid	8015NM Prep	
MB 880-36292/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36292/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36292/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

GC Semi VOA

Analysis Batch: 36364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Total/NA	Solid	8015 NM	
880-20035-2	S-1, 0.5'	Total/NA	Solid	8015 NM	
880-20035-3	S-2, 0'	Total/NA	Solid	8015 NM	
880-20035-4	S-2, 0.5'	Total/NA	Solid	8015 NM	
880-20035-5	S-3, 0'	Total/NA	Solid	8015 NM	
880-20035-6	S-3, 0.5'	Total/NA	Solid	8015 NM	
880-20035-7	S-4, 0'	Total/NA	Solid	8015 NM	
880-20035-8	S-4, 0.5'	Total/NA	Solid	8015 NM	
880-20035-9	S-5, 0'	Total/NA	Solid	8015 NM	
880-20035-10	S-5, 0.5'	Total/NA	Solid	8015 NM	
880-20035-11	S-6, 0'	Total/NA	Solid	8015 NM	
880-20035-12	S-6, 0.5'	Total/NA	Solid	8015 NM	
880-20035-13	S-7, 0-0.5'	Total/NA	Solid	8015 NM	
880-20035-14	S-8, 0-0.5'	Total/NA	Solid	8015 NM	
880-20035-15	S-9, 0-0.5'	Total/NA	Solid	8015 NM	
880-20035-16	S-10, 0-0.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 36243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Soluble	Solid	DI Leach	
880-20035-2	S-1, 0.5'	Soluble	Solid	DI Leach	
880-20035-3	S-2, 0'	Soluble	Solid	DI Leach	
880-20035-4	S-2, 0.5'	Soluble	Solid	DI Leach	
880-20035-5	S-3, 0'	Soluble	Solid	DI Leach	
880-20035-6	S-3, 0.5'	Soluble	Solid	DI Leach	
880-20035-7	S-4, 0'	Soluble	Solid	DI Leach	
880-20035-8	S-4, 0.5'	Soluble	Solid	DI Leach	
880-20035-9	S-5, 0'	Soluble	Solid	DI Leach	
880-20035-10	S-5, 0.5'	Soluble	Solid	DI Leach	
880-20035-11	S-6, 0'	Soluble	Solid	DI Leach	
880-20035-12	S-6, 0.5'	Soluble	Solid	DI Leach	
MB 880-36243/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36243/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36243/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20035-3 MS	S-2, 0'	Soluble	Solid	DI Leach	
880-20035-3 MSD	S-2, 0'	Soluble	Solid	DI Leach	

Leach Batch: 36394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-13	S-7, 0-0.5'	Soluble	Solid	DI Leach	
880-20035-14	S-8, 0-0.5'	Soluble	Solid	DI Leach	
880-20035-15	S-9, 0-0.5'	Soluble	Solid	DI Leach	
880-20035-16	S-10, 0-0.5'	Soluble	Solid	DI Leach	
MB 880-36394/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36394/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36394/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20035-13 MS	S-7, 0-0.5'	Soluble	Solid	DI Leach	
880-20035-13 MSD	S-7, 0-0.5'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

HPLC/IC

Analysis Batch: 36600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Soluble	Solid	300.0	36243
880-20035-2	S-1, 0.5'	Soluble	Solid	300.0	36243
880-20035-3	S-2, 0'	Soluble	Solid	300.0	36243
880-20035-4	S-2, 0.5'	Soluble	Solid	300.0	36243
880-20035-5	S-3, 0'	Soluble	Solid	300.0	36243
880-20035-6	S-3, 0.5'	Soluble	Solid	300.0	36243
880-20035-7	S-4, 0'	Soluble	Solid	300.0	36243
880-20035-8	S-4, 0.5'	Soluble	Solid	300.0	36243
880-20035-9	S-5, 0'	Soluble	Solid	300.0	36243
880-20035-10	S-5, 0.5'	Soluble	Solid	300.0	36243
880-20035-11	S-6, 0'	Soluble	Solid	300.0	36243
880-20035-12	S-6, 0.5'	Soluble	Solid	300.0	36243
MB 880-36243/1-A	Method Blank	Soluble	Solid	300.0	36243
LCS 880-36243/2-A	Lab Control Sample	Soluble	Solid	300.0	36243
LCSD 880-36243/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36243
880-20035-3 MS	S-2, 0'	Soluble	Solid	300.0	36243
880-20035-3 MSD	S-2, 0'	Soluble	Solid	300.0	36243

Analysis Batch: 36739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-13	S-7, 0-0.5'	Soluble	Solid	300.0	36394
880-20035-14	S-8, 0-0.5'	Soluble	Solid	300.0	36394
880-20035-15	S-9, 0-0.5'	Soluble	Solid	300.0	36394
880-20035-16	S-10, 0-0.5'	Soluble	Solid	300.0	36394
MB 880-36394/1-A	Method Blank	Soluble	Solid	300.0	36394
LCS 880-36394/2-A	Lab Control Sample	Soluble	Solid	300.0	36394
LCSD 880-36394/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36394
880-20035-13 MS	S-7, 0-0.5'	Soluble	Solid	300.0	36394
880-20035-13 MSD	S-7, 0-0.5'	Soluble	Solid	300.0	36394

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-1, 0'
Date Collected: 10/05/22 10:50
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-1
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			5.00 g	5 mL	36628	10/11/22 08:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36625	10/11/22 16:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/06/22 22:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		20			36600	10/10/22 18:57	CH	EET MID

Client Sample ID: S-1, 0.5'
Date Collected: 10/05/22 10:52
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	36628	10/11/22 08:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36625	10/11/22 17:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/06/22 23:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		10			36600	10/10/22 19:20	CH	EET MID

Client Sample ID: S-2, 0'
Date Collected: 10/05/22 10:58
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	36628	10/11/22 08:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36625	10/11/22 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/06/22 23:29	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		20			36600	10/10/22 19:26	CH	EET MID

Client Sample ID: S-2, 0.5'
Date Collected: 10/05/22 11:03
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	36628	10/11/22 08:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36625	10/11/22 17:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-2, 0.5'
Date Collected: 10/05/22 11:03
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-4
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			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/06/22 23:50	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		5			36600	10/10/22 19:43	CH	EET MID

Client Sample ID: S-3, 0'
Date Collected: 10/05/22 11:06
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-5
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	36628	10/11/22 08:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36625	10/11/22 18:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 00:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		50			36600	10/10/22 19:49	CH	EET MID

Client Sample ID: S-3, 0.5'
Date Collected: 10/05/22 11:09
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-6
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			4.96 g	5 mL	36628	10/11/22 08:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36625	10/11/22 18:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 00:33	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		5			36600	10/10/22 20:07	CH	EET MID

Client Sample ID: S-4, 0'
Date Collected: 10/05/22 11:13
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	36699	10/11/22 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36717	10/12/22 18:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 00:54	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-4, 0'
Date Collected: 10/05/22 11:13
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-7
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	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		20			36600	10/10/22 20:13	CH	EET MID

Client Sample ID: S-4, 0.5'
Date Collected: 10/05/22 11:15
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36766	10/12/22 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36730	10/13/22 06:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 01:15	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		10			36600	10/10/22 20:18	CH	EET MID

Client Sample ID: S-5, 0'
Date Collected: 10/05/22 11:18
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	36882	10/13/22 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36813	10/14/22 01:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 01:59	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		20			36600	10/10/22 20:24	CH	EET MID

Client Sample ID: S-5, 0.5'
Date Collected: 10/05/22 11:20
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36882	10/13/22 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36813	10/14/22 01:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 02:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		10			36600	10/10/22 20:30	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-6, 0'
Date Collected: 10/05/22 11:23
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	36882	10/13/22 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36813	10/14/22 01:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 02:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		20			36600	10/10/22 20:36	CH	EET MID

Client Sample ID: S-6, 0.5'
Date Collected: 10/05/22 11:26
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-12
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	36882	10/13/22 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36813	10/14/22 02:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 03:03	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		5			36600	10/10/22 20:42	CH	EET MID

Client Sample ID: S-7, 0-0.5'
Date Collected: 10/05/22 11:29
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-13
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	36882	10/13/22 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36813	10/14/22 02:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 03:25	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36394	10/07/22 15:14	CH	EET MID
Soluble	Analysis	300.0		5			36739	10/11/22 21:10	CH	EET MID

Client Sample ID: S-8, 0-0.5'
Date Collected: 10/05/22 11:31
Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	36766	10/12/22 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36730	10/13/22 14:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-8, 0-0.5'

Lab Sample ID: 880-20035-14
Matrix: Solid
Date Collected: 10/05/22 11:31
Date Received: 10/06/22 08:24

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			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 03:47	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36394	10/07/22 15:14	CH	EET MID
Soluble	Analysis	300.0		10			36739	10/11/22 21:26	CH	EET MID

Client Sample ID: S-9, 0-0.5'

Lab Sample ID: 880-20035-15
Matrix: Solid
Date Collected: 10/05/22 11:35
Date Received: 10/06/22 08:24

Prep 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	36882	10/13/22 13:34	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	36813	10/14/22 08:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 04:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36394	10/07/22 15:14	CH	EET MID
Soluble	Analysis	300.0		10			36739	10/11/22 21:32	CH	EET MID

Client Sample ID: S-10, 0-0.5'

Lab Sample ID: 880-20035-16
Matrix: Solid
Date Collected: 10/05/22 11:37
Date Received: 10/06/22 08:24

Prep 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	36882	10/13/22 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36813	10/14/22 05:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 04:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36394	10/07/22 15:14	CH	EET MID
Soluble	Analysis	300.0		1			36739	10/11/22 21:37	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-20035-1
Project/Site: Sand Dunes (SD) Pad 34 SDG: 22-0105-14

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-20035-1	S-1, 0'	Solid	10/05/22 10:50	10/06/22 08:24
880-20035-2	S-1, 0.5'	Solid	10/05/22 10:52	10/06/22 08:24
880-20035-3	S-2, 0'	Solid	10/05/22 10:58	10/06/22 08:24
880-20035-4	S-2, 0.5'	Solid	10/05/22 11:03	10/06/22 08:24
880-20035-5	S-3, 0'	Solid	10/05/22 11:06	10/06/22 08:24
880-20035-6	S-3, 0.5'	Solid	10/05/22 11:09	10/06/22 08:24
880-20035-7	S-4, 0'	Solid	10/05/22 11:13	10/06/22 08:24
880-20035-8	S-4, 0.5'	Solid	10/05/22 11:15	10/06/22 08:24
880-20035-9	S-5, 0'	Solid	10/05/22 11:18	10/06/22 08:24
880-20035-10	S-5, 0.5'	Solid	10/05/22 11:20	10/06/22 08:24
880-20035-11	S-6, 0'	Solid	10/05/22 11:23	10/06/22 08:24
880-20035-12	S-6, 0.5'	Solid	10/05/22 11:26	10/06/22 08:24
880-20035-13	S-7, 0-0.5'	Solid	10/05/22 11:29	10/06/22 08:24
880-20035-14	S-8, 0-0.5'	Solid	10/05/22 11:31	10/06/22 08:24
880-20035-15	S-9, 0-0.5'	Solid	10/05/22 11:35	10/06/22 08:24
880-20035-16	S-10, 0-0.5'	Solid	10/05/22 11:37	10/06/22 08:24

No. 2804

20035 CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

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

Data Reported to

DATE: 10/5/2022 PAGE 1 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Sand Dunes (SD) Pad 34

LAI PROJECT #: 22-0105-14 COLLECTOR: RW

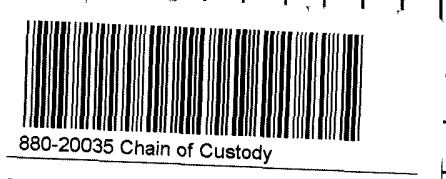
TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
S-1, 0'		10/5/22	1050	S	1				X		X	
S-1, 0.5'			1052									
S-2, 0'			1058									
S-2, 0.5'			1103									
S-3, 0'			1106									
S-3, 0.5'			1109									
S-4, 0'			1113									
S-4, 0.5'			1115									
S-5, 0'			1118									
S-5, 0.5'			1120									
S-6, 0'			1123									
S-6, 0.5'			1124									
S-7, 0-0.5'			1129									
S-8, 0-0.5'			1131									
S-9, 0-0.5'			1135									
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)
Brenda Collins	10/6 8:24	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY: Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP: 3/.5 THERM#: IR8.20
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #:
☐ HAND DELIVERED

No. 2805

20035 CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

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

Data Reported to

DATE 10/5/2022 PAGE 2 OF 2

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Sand Dunes (SD) Pad 34

LAI PROJECT # 22-0105-14 COLLECTOR RN

TRRP report? ☐ Yes ☒ No

TIME ZONE
Time zone/State: MST/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	RCI ☐	TOX ☐	TCLP ☐	TDS ☐	TSS ☐	FLASHPOINT ☐	pH ☐	% MOISTURE ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
S-10, 0-0.5'		10/5/22	1137	S	1				X		X		X	X	X																										X					
TOTAL																																															

Loc: 880
20035

RELINQUISHED BY (Signature) Brenda Salazar DATE/TIME 10/6 8:24 RECEIVED BY (Signature) Lorena 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 3.5 THERM# IR8.2
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-20035-1
SDG Number: 22-0105-14

Login Number: 20035
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Appendix E

Select Lab Report

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-19309-1
Laboratory Sample Delivery Group: 22-0104-08
Client Project/Site: Sand Dunes (SND) Pad 34

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

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
9/29/2022 5:10:29 PM

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

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

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

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
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.

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: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Job ID: 880-19309-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-19309-1

Receipt
The samples were received on 9/16/2022 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 1.0º C.

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-35560 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35287 and analytical batch 880-35560 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-35288 and analytical batch 880-35584 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m,p-Xylenes and o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-35288/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-19309-A-1-G MS) and (880-19309-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1, 0' (880-19309-1), S-1, 0.5' (880-19309-2), S-2, 0' (880-19309-3), S-2, 0.5' (880-19309-4), S-3, 0' (880-19309-5), S-3, 0.5' (880-19309-6), S-4, 0' (880-19309-7) and S-4, 0.5' (880-19309-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-35584 recovered above the upper control limit for Benzene and m,p-Xylenes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-35584/2).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35288 and analytical batch 880-35584 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-35288 and analytical batch 880-35584 recovered outside control limits for the following analytes: Benzene and m,p-Xylenes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-20, 0' (880-19309-39) and S-20, 0.5' (880-19309-40). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-35560 recovered below the lower control limit for o-Xylene. Another CCV was analyzed within 12 hours and was biased high but the samples were non detect; therefore, the data have been reported. The associated sample is impacted: (CCV 880-35560/20).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-35560 recovered above the upper control limit for o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-35560/33).

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-23, 0.5' (880-19309-51). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Job ID: 880-19309-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-35584 recovered above the upper control limit for Benzene, Ethylbenzene and m,p-Xylenes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-35584/20).

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-5, 0' (880-19309-9), S-5, 0.5' (880-19309-10), S-6, 0' (880-19309-11), S-6, 0.5' (880-19309-12), S-7, 0' (880-19309-13), S-7, 0.5' (880-19309-14), S-8, 0' (880-19309-15), S-8, 0.5' (880-19309-16), S-9, 0' (880-19309-17), S-9, 0.5' (880-19309-18), S-10, 0' (880-19309-19) and S-10, 0.5' (880-19309-20). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-34684 and analytical batch 880-34705 was outside the upper control limits.

Method 8015B NM: The method blank for preparation batch 880-34684 and analytical batch 880-34705 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-34684 and analytical batch 880-34705 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34684 and analytical batch 880-34705 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34683 and analytical batch 880-34716 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (MB 880-34683/1-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (MB 880-34682/1-A). Evidence of matrix interferences is not obvious.

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

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34672 and analytical batch 880-35105 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34671 and 880-34671 and analytical batch 880-34985 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: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-1, 0'

Date Collected: 09/15/22 10:00
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202		mg/Kg		09/23/22 15:24	09/28/22 13:59	1
Toluene	<0.00202	U *+	0.00202		mg/Kg		09/23/22 15:24	09/28/22 13:59	1
Ethylbenzene	<0.00202	U *+ F1	0.00202		mg/Kg		09/23/22 15:24	09/28/22 13:59	1
m,p-Xylenes	<0.00404	U *+ F1	0.00404		mg/Kg		09/23/22 15:24	09/28/22 13:59	1
o-Xylene	<0.00202	U *+ F1	0.00202		mg/Kg		09/23/22 15:24	09/28/22 13:59	1
Xylenes, Total	<0.00404	U *+ F1	0.00404		mg/Kg		09/23/22 15:24	09/28/22 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 13:59*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/23/22 15:24*	*09/28/22 13:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 11:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 11:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/16/22 13:59*	*09/18/22 11:58*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*09/16/22 13:59*	*09/18/22 11:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8240**		50.0		mg/Kg			09/22/22 04:13	10

Client Sample ID: S-1, 0.5'

Date Collected: 09/15/22 10:02
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 14:19	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 14:19	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 14:19	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		09/23/22 15:24	09/28/22 14:19	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 14:19	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		09/23/22 15:24	09/28/22 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*160*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 14:19*	*1*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*	*09/23/22 15:24*	*09/28/22 14:19*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-1, 0.5'

Date Collected: 09/15/22 10:02
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-2

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 13:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 13:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*09/16/22 13:59*	*09/18/22 13:02*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*09/16/22 13:59*	*09/18/22 13:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3560**		25.3		mg/Kg			09/22/22 04:28	5

Client Sample ID: S-2, 0'

Date Collected: 09/15/22 10:04
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 14:40	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 14:40	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 14:40	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 14:40	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 14:40	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 14:40*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*09/23/22 15:24*	*09/28/22 14:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 13:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 13:24	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-2, 0'
Lab Sample ID: 880-19309-3
Date Collected: 09/15/22 10:04 **Matrix: Solid**
Date Received: 09/16/22 09:20

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		09/16/22 13:59	09/18/22 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/16/22 13:59*	*09/18/22 13:24*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*09/16/22 13:59*	*09/18/22 13:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10900**		99.6		mg/Kg			09/22/22 04:33	20

Client Sample ID: S-2, 0.5'
Lab Sample ID: 880-19309-4
Date Collected: 09/15/22 10:06 **Matrix: Solid**
Date Received: 09/16/22 09:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 15:01	1
Toluene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 15:01	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 15:01	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		09/23/22 15:24	09/28/22 15:01	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 15:01	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		09/23/22 15:24	09/28/22 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*159*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 15:01*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/23/22 15:24*	*09/28/22 15:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 13:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 13:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/16/22 13:59*	*09/18/22 13:45*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*09/16/22 13:59*	*09/18/22 13:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**800**		5.00		mg/Kg			09/22/22 04:37	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-3, 0'

Date Collected: 09/15/22 10:08
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 15:22	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 15:22	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 15:22	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		09/23/22 15:24	09/28/22 15:22	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 15:22	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		09/23/22 15:24	09/28/22 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*186*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 15:22*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*09/23/22 15:24*	*09/28/22 15:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 14:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 14:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*09/16/22 13:59*	*09/18/22 14:06*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*09/16/22 13:59*	*09/18/22 14:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43600**		248		mg/Kg			09/22/22 04:42	50

Client Sample ID: S-3, 0.5'

Date Collected: 09/15/22 10:10
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-6

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		09/23/22 15:24	09/28/22 15:43	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 15:43	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 15:43	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 15:43	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 15:43	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*188*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 15:43*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*09/23/22 15:24*	*09/28/22 15:43*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-3, 0.5'
Lab Sample ID: 880-19309-6
Date Collected: 09/15/22 10:10 **Matrix: Solid**
Date Received: 09/16/22 09:20

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 14:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 14:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*09/16/22 13:59*	*09/18/22 14:28*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/16/22 13:59*	*09/18/22 14:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3560**		25.2		mg/Kg			09/22/22 04:57	5

Client Sample ID: S-4, 0'
Lab Sample ID: 880-19309-7
Date Collected: 09/15/22 10:12 **Matrix: Solid**
Date Received: 09/16/22 09:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 16:03	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 16:03	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 16:03	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		09/23/22 15:24	09/28/22 16:03	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 16:03	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		09/23/22 15:24	09/28/22 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 16:03*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/23/22 15:24*	*09/28/22 16:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 14:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 14:49	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-4, 0'
Date Collected: 09/15/22 10:12
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/16/22 13:59*	*09/18/22 14:49*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*09/16/22 13:59*	*09/18/22 14:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15700**		99.8		mg/Kg			09/22/22 05:02	20

Client Sample ID: S-4, 0.5'
Date Collected: 09/15/22 10:14
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-8
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 16:24	1
Toluene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 16:24	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 16:24	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		09/23/22 15:24	09/28/22 16:24	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 16:24	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		09/23/22 15:24	09/28/22 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*155*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 16:24*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*09/23/22 15:24*	*09/28/22 16:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 15:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 15:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/16/22 13:59*	*09/18/22 15:11*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/16/22 13:59*	*09/18/22 15:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3420**		25.2		mg/Kg			09/22/22 05:07	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-5, 0'

Date Collected: 09/15/22 10:16
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-9

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		09/23/22 15:24	09/28/22 16:45	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 16:45	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 16:45	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 16:45	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 16:45	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 16:45*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*09/23/22 15:24*	*09/28/22 16:45*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 15:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 15:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*09/16/22 13:59*	*09/18/22 15:33*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*09/16/22 13:59*	*09/18/22 15:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22100**		250		mg/Kg			09/22/22 05:11	50

Client Sample ID: S-5, 0.5'

Date Collected: 09/15/22 10:18
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-10

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		09/23/22 15:24	09/28/22 17:06	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 17:06	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 17:06	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 17:06	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 17:06	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 17:06*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/23/22 15:24*	*09/28/22 17:06*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-5, 0.5'
Date Collected: 09/15/22 10:18
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-10
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			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 15:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*09/16/22 13:59*	*09/18/22 15:55*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*09/16/22 13:59*	*09/18/22 15:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4600**		49.8		mg/Kg			09/22/22 05:16	10

Client Sample ID: S-6, 0'
Date Collected: 09/15/22 10:20
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 18:30	1
Toluene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 18:30	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 18:30	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		09/23/22 15:24	09/28/22 18:30	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 18:30	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		09/23/22 15:24	09/28/22 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*153*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 18:30*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/23/22 15:24*	*09/28/22 18:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 16:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 16:38	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-6, 0' Lab Sample ID: 880-19309-11

Date Collected: 09/15/22 10:20 **Matrix: Solid**
Date Received: 09/16/22 09:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*09/16/22 13:59*	*09/18/22 16:38*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*09/16/22 13:59*	*09/18/22 16:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30600**		250		mg/Kg			09/22/22 05:21	50

Client Sample ID: S-6, 0.5' Lab Sample ID: 880-19309-12

Date Collected: 09/15/22 10:22 **Matrix: Solid**
Date Received: 09/16/22 09:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 18:51	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 18:51	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 18:51	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		09/23/22 15:24	09/28/22 18:51	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 18:51	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		09/23/22 15:24	09/28/22 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*157*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 18:51*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*09/23/22 15:24*	*09/28/22 18:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 16:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 16:59	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*09/16/22 13:59*	*09/18/22 16:59*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*09/16/22 13:59*	*09/18/22 16:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4460**		24.8		mg/Kg			09/22/22 05:36	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-7, 0'

Date Collected: 09/15/22 10:24
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-13
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		09/23/22 15:24	09/28/22 19:12	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 19:12	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 19:12	1
m,p-Xylenes	<0.00401	U *+	0.00401		mg/Kg		09/23/22 15:24	09/28/22 19:12	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 19:12	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		09/23/22 15:24	09/28/22 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*195*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 19:12*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*09/23/22 15:24*	*09/28/22 19:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 17:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 17:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*09/16/22 13:59*	*09/18/22 17:21*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/16/22 13:59*	*09/18/22 17:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16000**		99.6		mg/Kg			09/22/22 05:40	20

Client Sample ID: S-7, 0.5'

Date Collected: 09/15/22 10:26
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-14
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		09/23/22 15:24	09/28/22 19:33	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 19:33	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 19:33	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 19:33	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 19:33	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*160*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 19:33*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*09/23/22 15:24*	*09/28/22 19:33*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-7, 0.5'
Date Collected: 09/15/22 10:26
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-14
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			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 17:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 17:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*09/16/22 13:59*	*09/18/22 17:42*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*09/16/22 13:59*	*09/18/22 17:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4220**		25.0		mg/Kg			09/22/22 05:55	5

Client Sample ID: S-8, 0'
Date Collected: 09/15/22 10:28
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-15
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 19:54	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 19:54	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 19:54	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 19:54	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 19:54	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 19:54*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*09/23/22 15:24*	*09/28/22 19:54*	*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			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1060**		50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 18:03	1
Diesel Range Organics (Over C10-C28)	**1060**		50.0		mg/Kg		09/16/22 13:59	09/18/22 18:03	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-8, 0'
Lab Sample ID: 880-19309-15
Date Collected: 09/15/22 10:28 **Matrix: Solid**
Date Received: 09/16/22 09:20

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		09/16/22 13:59	09/18/22 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*09/16/22 13:59*	*09/18/22 18:03*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*09/16/22 13:59*	*09/18/22 18:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6020**		50.1		mg/Kg			09/22/22 06:00	10

Client Sample ID: S-8, 0.5'
Lab Sample ID: 880-19309-16
Date Collected: 09/15/22 10:30 **Matrix: Solid**
Date Received: 09/16/22 09:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 20:14	1
Toluene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 20:14	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 20:14	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		09/23/22 15:24	09/28/22 20:14	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 20:14	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		09/23/22 15:24	09/28/22 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*185*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 20:14*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*09/23/22 15:24*	*09/28/22 20:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**62.7**		50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 18:24	1
Diesel Range Organics (Over C10-C28)	**62.7**		50.0		mg/Kg		09/16/22 13:59	09/18/22 18:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*09/16/22 13:59*	*09/18/22 18:24*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*09/16/22 13:59*	*09/18/22 18:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**432**		4.97		mg/Kg			09/22/22 06:05	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-9, 0'

Date Collected: 09/15/22 10:32
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-17
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 20:35	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 20:35	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 20:35	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		09/23/22 15:24	09/28/22 20:35	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 20:35	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		09/23/22 15:24	09/28/22 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*182*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 20:35*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*09/23/22 15:24*	*09/28/22 20:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 18:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 18:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*09/16/22 13:59*	*09/18/22 18:46*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/16/22 13:59*	*09/18/22 18:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27000**		249		mg/Kg			09/22/22 06:09	50

Client Sample ID: S-9, 0.5'

Date Collected: 09/15/22 10:34
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-18
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 20:56	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 20:56	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 20:56	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 20:56	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		09/23/22 15:24	09/28/22 20:56	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		09/23/22 15:24	09/28/22 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*178*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 20:56*	*1*
1,4-Difluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 20:56*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-9, 0.5'
Date Collected: 09/15/22 10:34
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-18
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 19:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 19:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*09/16/22 13:59*	*09/18/22 19:07*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*09/16/22 13:59*	*09/18/22 19:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2330**		25.0		mg/Kg			09/22/22 06:14	5

Client Sample ID: S-10, 0'
Date Collected: 09/15/22 10:36
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-19
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 21:17	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 21:17	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 21:17	1
m,p-Xylenes	<0.00401	U *+	0.00401		mg/Kg		09/23/22 15:24	09/28/22 21:17	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		09/23/22 15:24	09/28/22 21:17	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		09/23/22 15:24	09/28/22 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*153*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 21:17*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*09/23/22 15:24*	*09/28/22 21:17*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 19:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 19:28	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-10, 0'
Lab Sample ID: 880-19309-19
Date Collected: 09/15/22 10:36 **Matrix: Solid**
Date Received: 09/16/22 09:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*09/16/22 13:59*	*09/18/22 19:28*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*09/16/22 13:59*	*09/18/22 19:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41800**		248		mg/Kg			09/22/22 06:19	50

Client Sample ID: S-10, 0.5'
Lab Sample ID: 880-19309-20
Date Collected: 09/15/22 10:38 **Matrix: Solid**
Date Received: 09/16/22 09:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 21:38	1
Toluene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 21:38	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 21:38	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		09/23/22 15:24	09/28/22 21:38	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		09/23/22 15:24	09/28/22 21:38	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		09/23/22 15:24	09/28/22 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*09/23/22 15:24*	*09/28/22 21:38*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/23/22 15:24*	*09/28/22 21:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**387**		49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 19:49	1
Diesel Range Organics (Over C10-C28)	**387**		49.9		mg/Kg		09/16/22 13:59	09/18/22 19:49	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 13:59	09/18/22 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*09/16/22 13:59*	*09/18/22 19:49*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*09/16/22 13:59*	*09/18/22 19:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7440**		49.5		mg/Kg			09/22/22 06:24	10

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-11, 0'
Date Collected: 09/15/22 10:40
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-21
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 12:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 12:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 12:02	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/23/22 15:27	09/28/22 12:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 12:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/23/22 15:27	09/28/22 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/23/22 15:27*	*09/28/22 12:02*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*09/23/22 15:27*	*09/28/22 12:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9		mg/Kg		09/16/22 14:02	09/18/22 21:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/18/22 21:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/18/22 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*09/16/22 14:02*	*09/18/22 21:34*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/16/22 14:02*	*09/18/22 21:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23600**	**F1**	248		mg/Kg			09/21/22 16:54	50

Client Sample ID: S-11, 0.5'
Date Collected: 09/15/22 10:42
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-22
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/23/22 15:27	09/28/22 12:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/23/22 15:27	09/28/22 12:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/23/22 15:27	09/28/22 12:23	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		09/23/22 15:27	09/28/22 12:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/23/22 15:27	09/28/22 12:23	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/23/22 15:27	09/28/22 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*09/23/22 15:27*	*09/28/22 12:23*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*09/23/22 15:27*	*09/28/22 12:23*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-11, 0.5'

Date Collected: 09/15/22 10:42
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-22

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/18/22 22:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/18/22 22:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/18/22 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*09/16/22 14:02*	*09/18/22 22:36*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*09/16/22 14:02*	*09/18/22 22:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3400**		25.0		mg/Kg			09/21/22 17:08	5

Client Sample ID: S-12, 0'

Date Collected: 09/15/22 10:44
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-23

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 12:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 12:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 12:43	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/23/22 15:27	09/28/22 12:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 12:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/23/22 15:27	09/28/22 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*09/23/22 15:27*	*09/28/22 12:43*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/23/22 15:27*	*09/28/22 12:43*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**158**		50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/18/22 22:56	1
Diesel Range Organics (Over C10-C28)	**158**		50.0		mg/Kg		09/16/22 14:02	09/18/22 22:56	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-12, 0'
Date Collected: 09/15/22 10:44
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/18/22 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*09/16/22 14:02*	*09/18/22 22:56*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*09/16/22 14:02*	*09/18/22 22:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5860**		49.8		mg/Kg			09/21/22 17:13	10

Client Sample ID: S-12, 0.5'
Date Collected: 09/15/22 10:46
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-24
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 13:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 13:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 13:04	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/23/22 15:27	09/28/22 13:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 13:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/23/22 15:27	09/28/22 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/23/22 15:27*	*09/28/22 13:04*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/23/22 15:27*	*09/28/22 13:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**286**		49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/18/22 23:16	1
Diesel Range Organics (Over C10-C28)	**286**		49.9		mg/Kg		09/16/22 14:02	09/18/22 23:16	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/18/22 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*09/16/22 14:02*	*09/18/22 23:16*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*09/16/22 14:02*	*09/18/22 23:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**630**		5.00		mg/Kg			09/21/22 17:18	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-13, 0'

Date Collected: 09/15/22 10:48
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-25
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		09/23/22 15:27	09/28/22 13:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 13:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 13:24	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/23/22 15:27	09/28/22 13:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 13:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/23/22 15:27	09/28/22 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/23/22 15:27*	*09/28/22 13:24*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*09/23/22 15:27*	*09/28/22 13:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**244**		50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/18/22 23:36	1
Diesel Range Organics (Over C10-C28)	**244**		50.0		mg/Kg		09/16/22 14:02	09/18/22 23:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/18/22 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*09/16/22 14:02*	*09/18/22 23:36*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*09/16/22 14:02*	*09/18/22 23:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25900**		248		mg/Kg			09/21/22 17:23	50

Client Sample ID: S-13, 0.5'

Date Collected: 09/15/22 10:50
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-26
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 13:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 13:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 13:45	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/23/22 15:27	09/28/22 13:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 13:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/23/22 15:27	09/28/22 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/23/22 15:27*	*09/28/22 13:45*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*09/23/22 15:27*	*09/28/22 13:45*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-13, 0.5'
Date Collected: 09/15/22 10:50
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-26
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/18/22 23:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/18/22 23:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/18/22 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*09/16/22 14:02*	*09/18/22 23:56*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*09/16/22 14:02*	*09/18/22 23:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6700**		49.8		mg/Kg			09/21/22 17:37	10

Client Sample ID: S-14, 0'
Date Collected: 09/15/22 10:52
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-27
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 14:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 14:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 14:05	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/23/22 15:27	09/28/22 14:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 14:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/23/22 15:27	09/28/22 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*09/23/22 15:27*	*09/28/22 14:05*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/23/22 15:27*	*09/28/22 14:05*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1950**		49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/19/22 00:16	1
Diesel Range Organics (Over C10-C28)	**1950**		49.9		mg/Kg		09/16/22 14:02	09/19/22 00:16	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-14, 0'
Date Collected: 09/15/22 10:52
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-27
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/19/22 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*09/16/22 14:02*	*09/19/22 00:16*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*09/16/22 14:02*	*09/19/22 00:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19200**		250		mg/Kg			09/21/22 17:42	50

Client Sample ID: S-14, 0.5'
Date Collected: 09/15/22 10:54
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-28
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 14:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 14:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 14:26	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/23/22 15:27	09/28/22 14:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 14:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/23/22 15:27	09/28/22 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*09/23/22 15:27*	*09/28/22 14:26*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*09/23/22 15:27*	*09/28/22 14:26*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 00:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 00:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/16/22 14:02*	*09/19/22 00:36*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/16/22 14:02*	*09/19/22 00:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**348**		5.04		mg/Kg			09/21/22 17:47	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-15, 0'

Date Collected: 09/15/22 10:56
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-29

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/23/22 15:27	09/28/22 14:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/23/22 15:27	09/28/22 14:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/23/22 15:27	09/28/22 14:47	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		09/23/22 15:27	09/28/22 14:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/23/22 15:27	09/28/22 14:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/23/22 15:27	09/28/22 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*09/23/22 15:27*	*09/28/22 14:47*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/23/22 15:27*	*09/28/22 14:47*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**942**		49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/19/22 00:56	1
Diesel Range Organics (Over C10-C28)	**942**		49.9		mg/Kg		09/16/22 14:02	09/19/22 00:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/19/22 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*09/16/22 14:02*	*09/19/22 00:56*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*09/16/22 14:02*	*09/19/22 00:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22200**		250		mg/Kg			09/21/22 17:52	50

Client Sample ID: S-15, 0.5'

Date Collected: 09/15/22 10:58
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-30

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 15:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 15:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 15:07	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/23/22 15:27	09/28/22 15:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 15:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/23/22 15:27	09/28/22 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/23/22 15:27*	*09/28/22 15:07*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*09/23/22 15:27*	*09/28/22 15:07*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-15, 0.5'

Date Collected: 09/15/22 10:58
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-30

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/19/22 01:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/19/22 01:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/19/22 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*09/16/22 14:02*	*09/19/22 01:16*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/16/22 14:02*	*09/19/22 01:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**256**		4.98		mg/Kg			09/21/22 17:57	1

Client Sample ID: S-16, 0'

Date Collected: 09/15/22 11:00
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-31

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 16:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 16:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 16:30	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/23/22 15:27	09/28/22 16:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 16:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/23/22 15:27	09/28/22 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*09/23/22 15:27*	*09/28/22 16:30*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/23/22 15:27*	*09/28/22 16:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1300**		50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 01:56	1
Diesel Range Organics (Over C10-C28)	**1300**		50.0		mg/Kg		09/16/22 14:02	09/19/22 01:56	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-16, 0'
Lab Sample ID: 880-19309-31
Date Collected: 09/15/22 11:00 **Matrix: Solid**
Date Received: 09/16/22 09:20

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		09/16/22 14:02	09/19/22 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*09/16/22 14:02*	*09/19/22 01:56*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/16/22 14:02*	*09/19/22 01:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20700**	**F1**	250		mg/Kg			09/21/22 18:02	50

Client Sample ID: S-16, 0.5'
Lab Sample ID: 880-19309-32
Date Collected: 09/15/22 11:02 **Matrix: Solid**
Date Received: 09/16/22 09:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 16:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 16:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 16:51	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/23/22 15:27	09/28/22 16:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 16:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/23/22 15:27	09/28/22 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*09/23/22 15:27*	*09/28/22 16:51*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*09/23/22 15:27*	*09/28/22 16:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**57.4**		49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/19/22 02:16	1
Diesel Range Organics (Over C10-C28)	**57.4**		49.9		mg/Kg		09/16/22 14:02	09/19/22 02:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/19/22 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*09/16/22 14:02*	*09/19/22 02:16*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*09/16/22 14:02*	*09/19/22 02:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**431**		4.96		mg/Kg			09/21/22 18:16	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-17, 0'

Date Collected: 09/15/22 11:04
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-33
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		09/23/22 15:27	09/28/22 17:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 17:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 17:11	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/23/22 15:27	09/28/22 17:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 17:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/23/22 15:27	09/28/22 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*09/23/22 15:27*	*09/28/22 17:11*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/23/22 15:27*	*09/28/22 17:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1060**		50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 02:36	1
Diesel Range Organics (Over C10-C28)	**1060**		50.0		mg/Kg		09/16/22 14:02	09/19/22 02:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 02:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*09/16/22 14:02*	*09/19/22 02:36*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*09/16/22 14:02*	*09/19/22 02:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34600**	**F1**	248		mg/Kg			09/22/22 07:03	50

Client Sample ID: S-17, 0.5'

Date Collected: 09/15/22 11:06
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-34
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 17:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 17:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 17:32	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/23/22 15:27	09/28/22 17:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 17:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/23/22 15:27	09/28/22 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/23/22 15:27*	*09/28/22 17:32*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*09/23/22 15:27*	*09/28/22 17:32*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-17, 0.5'

Date Collected: 09/15/22 11:06
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-34
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**67.3**		50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 02:56	1
Diesel Range Organics (Over C10-C28)	**67.3**		50.0		mg/Kg		09/16/22 14:02	09/19/22 02:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*09/16/22 14:02*	*09/19/22 02:56*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*09/16/22 14:02*	*09/19/22 02:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3320**		25.0		mg/Kg			09/22/22 07:17	5

Client Sample ID: S-18, 0'

Date Collected: 09/15/22 11:08
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-35
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 17:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 17:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 17:52	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/23/22 15:27	09/28/22 17:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 17:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/23/22 15:27	09/28/22 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*09/23/22 15:27*	*09/28/22 17:52*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/23/22 15:27*	*09/28/22 17:52*	*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			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**726**		50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 03:16	1
Diesel Range Organics (Over C10-C28)	**726**		50.0		mg/Kg		09/16/22 14:02	09/19/22 03:16	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-18, 0'
Date Collected: 09/15/22 11:08
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-35
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)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*09/16/22 14:02*	*09/19/22 03:16*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*09/16/22 14:02*	*09/19/22 03:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29700**		249		mg/Kg			09/22/22 07:22	50

Client Sample ID: S-18, 0.5'
Date Collected: 09/15/22 11:10
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-36
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 18:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 18:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 18:13	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/23/22 15:27	09/28/22 18:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 18:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/23/22 15:27	09/28/22 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*09/23/22 15:27*	*09/28/22 18:13*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/23/22 15:27*	*09/28/22 18:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 03:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 03:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/16/22 14:02*	*09/19/22 03:36*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*09/16/22 14:02*	*09/19/22 03:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7500**		50.0		mg/Kg			09/22/22 07:27	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-19, 0'

Date Collected: 09/15/22 11:12
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-37
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 18:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 18:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 18:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/23/22 15:27	09/28/22 18:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:27	09/28/22 18:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/23/22 15:27	09/28/22 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/23/22 15:27*	*09/28/22 18:33*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/23/22 15:27*	*09/28/22 18:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**209**		50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 03:56	1
Diesel Range Organics (Over C10-C28)	**209**		50.0		mg/Kg		09/16/22 14:02	09/19/22 03:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*09/16/22 14:02*	*09/19/22 03:56*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*09/16/22 14:02*	*09/19/22 03:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9010**		99.0		mg/Kg			09/22/22 07:32	20

Client Sample ID: S-19, 0.5'

Date Collected: 09/15/22 11:14
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-38
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 18:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 18:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 18:54	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/23/22 15:27	09/28/22 18:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:27	09/28/22 18:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/23/22 15:27	09/28/22 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/23/22 15:27*	*09/28/22 18:54*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*09/23/22 15:27*	*09/28/22 18:54*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-19, 0.5'
Date Collected: 09/15/22 11:14
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-38
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 04:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 04:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*09/16/22 14:02*	*09/19/22 04:16*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*09/16/22 14:02*	*09/19/22 04:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**896**		24.9		mg/Kg			09/22/22 07:46	5

Client Sample ID: S-20, 0'
Date Collected: 09/15/22 11:16
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-39
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 19:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 19:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 19:15	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		09/23/22 15:27	09/28/22 19:15	1
o-Xylene	**0.00324**		0.00200		mg/Kg		09/23/22 15:27	09/28/22 19:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/23/22 15:27	09/28/22 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*282*	*S1+*	*70 - 130*	*09/23/22 15:27*	*09/28/22 19:15*	*1*
1,4-Difluorobenzene (Surr)	*241*	*S1+*	*70 - 130*	*09/23/22 15:27*	*09/28/22 19:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**846**		50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 04:35	1
Diesel Range Organics (Over C10-C28)	**846**		50.0		mg/Kg		09/16/22 14:02	09/19/22 04:35	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-20, 0'
Lab Sample ID: 880-19309-39
Date Collected: 09/15/22 11:16 **Matrix: Solid**
Date Received: 09/16/22 09:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/19/22 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*09/16/22 14:02*	*09/19/22 04:35*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*09/16/22 14:02*	*09/19/22 04:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13000**		248		mg/Kg			09/22/22 07:51	50

Client Sample ID: S-20, 0.5'
Lab Sample ID: 880-19309-40
Date Collected: 09/15/22 11:18 **Matrix: Solid**
Date Received: 09/16/22 09:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 19:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 19:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 19:35	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/23/22 15:27	09/28/22 19:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 19:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/23/22 15:27	09/28/22 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*0.007*	*S1-*	*70 - 130*	*09/23/22 15:27*	*09/28/22 19:35*	*1*
1,4-Difluorobenzene (Surr)	*35*	*S1-*	*70 - 130*	*09/23/22 15:27*	*09/28/22 19:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/19/22 04:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/19/22 04:56	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:02	09/19/22 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*09/16/22 14:02*	*09/19/22 04:56*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/16/22 14:02*	*09/19/22 04:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**268**		5.00		mg/Kg			09/22/22 07:56	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-21, 0'

Date Collected: 09/15/22 11:20
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-41

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 13:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 13:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 13:41	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/23/22 15:07	09/28/22 13:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 13:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/23/22 15:07	09/28/22 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*09/23/22 15:07*	*09/28/22 13:41*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/23/22 15:07*	*09/28/22 13:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**475**		49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/16/22 14:47	09/17/22 21:07	1
Diesel Range Organics (Over C10-C28)	**475**	**F1**	49.9		mg/Kg		09/16/22 14:47	09/17/22 21:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:47	09/17/22 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*09/16/22 14:47*	*09/17/22 21:07*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*09/16/22 14:47*	*09/17/22 21:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21200**		250		mg/Kg			09/22/22 08:01	50

Client Sample ID: S-21, 0.5'

Date Collected: 09/15/22 11:22
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-42

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 14:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 14:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 14:02	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/23/22 15:07	09/28/22 14:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 14:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/23/22 15:07	09/28/22 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*09/23/22 15:07*	*09/28/22 14:02*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/23/22 15:07*	*09/28/22 14:02*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-21, 0.5'

Date Collected: 09/15/22 11:22
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-42
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/16/22 14:47	09/17/22 22:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 14:47	09/17/22 22:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:47	09/17/22 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*09/16/22 14:47*	*09/17/22 22:12*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*09/16/22 14:47*	*09/17/22 22:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**450**		4.98		mg/Kg			09/22/22 08:06	1

Client Sample ID: S-22, 0'

Date Collected: 09/15/22 11:24
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-43
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 14:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 14:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 14:22	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/23/22 15:07	09/28/22 14:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 14:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/23/22 15:07	09/28/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*09/23/22 15:07*	*09/28/22 14:22*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/23/22 15:07*	*09/28/22 14:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**289**		50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/16/22 14:47	09/17/22 22:34	1
Diesel Range Organics (Over C10-C28)	**289**		50.0		mg/Kg		09/16/22 14:47	09/17/22 22:34	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-22, 0'
Lab Sample ID: 880-19309-43
Date Collected: 09/15/22 11:24 **Matrix: Solid**
Date Received: 09/16/22 09:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:47	09/17/22 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*09/16/22 14:47*	*09/17/22 22:34*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*09/16/22 14:47*	*09/17/22 22:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26600**		251		mg/Kg			09/22/22 08:11	50

Client Sample ID: S-22, 0.5'
Lab Sample ID: 880-19309-44
Date Collected: 09/15/22 11:26 **Matrix: Solid**
Date Received: 09/16/22 09:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:07	09/28/22 14:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:07	09/28/22 14:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:07	09/28/22 14:43	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/23/22 15:07	09/28/22 14:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:07	09/28/22 14:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/23/22 15:07	09/28/22 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*09/23/22 15:07*	*09/28/22 14:43*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*09/23/22 15:07*	*09/28/22 14:43*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/16/22 14:47	09/17/22 22:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 14:47	09/17/22 22:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:47	09/17/22 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*09/16/22 14:47*	*09/17/22 22:55*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*09/16/22 14:47*	*09/17/22 22:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**442**		5.00		mg/Kg			09/22/22 08:25	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-23, 0'

Date Collected: 09/15/22 11:28
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-45

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 15:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 15:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 15:03	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/23/22 15:07	09/28/22 15:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 15:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/23/22 15:07	09/28/22 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*09/23/22 15:07*	*09/28/22 15:03*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/23/22 15:07*	*09/28/22 15:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**626**		50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/16/22 14:47	09/17/22 23:17	1
Diesel Range Organics (Over C10-C28)	**626**		50.0		mg/Kg		09/16/22 14:47	09/17/22 23:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:47	09/17/22 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*09/16/22 14:47*	*09/17/22 23:17*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*09/16/22 14:47*	*09/17/22 23:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22500**		249		mg/Kg			09/22/22 08:30	50

Client Sample ID: S-24, 0'

Date Collected: 09/15/22 11:32
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-46

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 15:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 15:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 15:23	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/23/22 15:07	09/28/22 15:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 15:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/23/22 15:07	09/28/22 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*09/23/22 15:07*	*09/28/22 15:23*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/23/22 15:07*	*09/28/22 15:23*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-24, 0'
Date Collected: 09/15/22 11:32
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-46
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**60.9**		50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/16/22 14:47	09/17/22 23:39	1
Diesel Range Organics (Over C10-C28)	**60.9**		50.0		mg/Kg		09/16/22 14:47	09/17/22 23:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:47	09/17/22 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*09/16/22 14:47*	*09/17/22 23:39*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/16/22 14:47*	*09/17/22 23:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20800**		250		mg/Kg			09/22/22 08:45	50

Client Sample ID: S-24, 0.5'
Date Collected: 09/15/22 11:34
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-47
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 15:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 15:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 15:44	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/23/22 15:07	09/28/22 15:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 15:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/23/22 15:07	09/28/22 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*09/23/22 15:07*	*09/28/22 15:44*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/23/22 15:07*	*09/28/22 15:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/16/22 14:47	09/18/22 00:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 14:47	09/18/22 00:00	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-24, 0.5' Lab Sample ID: 880-19309-47
Date Collected: 09/15/22 11:34 **Matrix: Solid**
Date Received: 09/16/22 09:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:47	09/18/22 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*09/16/22 14:47*	*09/18/22 00:00*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*09/16/22 14:47*	*09/18/22 00:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1380**		24.8		mg/Kg			09/22/22 08:49	5

Client Sample ID: S-25, 0-0.5' Lab Sample ID: 880-19309-48
Date Collected: 09/15/22 11:36 **Matrix: Solid**
Date Received: 09/16/22 09:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:07	09/28/22 17:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:07	09/28/22 17:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:07	09/28/22 17:34	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		09/23/22 15:07	09/28/22 17:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/23/22 15:07	09/28/22 17:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/23/22 15:07	09/28/22 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*09/23/22 15:07*	*09/28/22 17:34*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/23/22 15:07*	*09/28/22 17:34*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/16/22 14:47	09/18/22 00:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 14:47	09/18/22 00:21	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:47	09/18/22 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*09/16/22 14:47*	*09/18/22 00:21*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*09/16/22 14:47*	*09/18/22 00:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.8**		5.05		mg/Kg			09/22/22 08:54	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-26, 0-0.5'

Date Collected: 09/15/22 11:38
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-49

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 17:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 17:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 17:55	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		09/23/22 15:07	09/28/22 17:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 17:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/23/22 15:07	09/28/22 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*09/23/22 15:07*	*09/28/22 17:55*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/23/22 15:07*	*09/28/22 17:55*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/16/22 14:47	09/18/22 00:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 14:47	09/18/22 00:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:47	09/18/22 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*09/16/22 14:47*	*09/18/22 00:42*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*09/16/22 14:47*	*09/18/22 00:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**194**		5.00		mg/Kg			09/22/22 08:59	1

Client Sample ID: S-27, 0-0.5'

Date Collected: 09/15/22 11:40
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-50

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00436**		0.00199		mg/Kg		09/23/22 15:07	09/28/22 18:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 18:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 18:15	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/23/22 15:07	09/28/22 18:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 18:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/23/22 15:07	09/28/22 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*09/23/22 15:07*	*09/28/22 18:15*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*09/23/22 15:07*	*09/28/22 18:15*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Client Sample ID: S-27, 0-0.5' Lab Sample ID: 880-19309-50
Date Collected: 09/15/22 11:40 **Matrix: Solid**
Date Received: 09/16/22 09:20

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00436**		0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		09/16/22 14:47	09/18/22 01:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 14:47	09/18/22 01:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 14:47	09/18/22 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*09/16/22 14:47*	*09/18/22 01:03*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*09/16/22 14:47*	*09/18/22 01:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.7**		4.98		mg/Kg			09/22/22 09:04	1

Client Sample ID: S-23, 0.5' Lab Sample ID: 880-19309-51
Date Collected: 09/15/22 11:30 **Matrix: Solid**
Date Received: 09/16/22 09:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 18:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 18:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 18:36	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		09/23/22 15:07	09/28/22 18:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/23/22 15:07	09/28/22 18:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/23/22 15:07	09/28/22 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*09/23/22 15:07*	*09/28/22 18:36*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/23/22 15:07*	*09/28/22 18:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/28/22 16:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/16/22 14:47	09/18/22 01:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 14:47	09/18/22 01:46	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-23, 0.5'
Date Collected: 09/15/22 11:30
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-51
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		09/16/22 14:47	09/18/22 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*09/16/22 14:47*	*09/18/22 01:46*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*09/16/22 14:47*	*09/18/22 01:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**205**		4.98		mg/Kg			09/17/22 04:23	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

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)
880-19309-1	S-1, 0'	149 S1+	101
880-19309-1 MS	S-1, 0'	157 S1+	130
880-19309-1 MSD	S-1, 0'	157 S1+	135 S1+
880-19309-2	S-1, 0.5'	160 S1+	124
880-19309-3	S-2, 0'	158 S1+	116
880-19309-4	S-2, 0.5'	159 S1+	112
880-19309-5	S-3, 0'	186 S1+	113
880-19309-6	S-3, 0.5'	188 S1+	122
880-19309-7	S-4, 0'	158 S1+	117
880-19309-8	S-4, 0.5'	155 S1+	114
880-19309-9	S-5, 0'	161 S1+	114
880-19309-10	S-5, 0.5'	158 S1+	112
880-19309-11	S-6, 0'	153 S1+	104
880-19309-12	S-6, 0.5'	157 S1+	116
880-19309-13	S-7, 0'	195 S1+	116
880-19309-14	S-7, 0.5'	160 S1+	123
880-19309-15	S-8, 0'	143 S1+	115
880-19309-16	S-8, 0.5'	185 S1+	125
880-19309-17	S-9, 0'	182 S1+	123
880-19309-18	S-9, 0.5'	178 S1+	132 S1+
880-19309-19	S-10, 0'	153 S1+	123
880-19309-20	S-10, 0.5'	145 S1+	110
880-19309-21	S-11, 0'	112	97
880-19309-21 MS	S-11, 0'	127	99
880-19309-21 MSD	S-11, 0'	119	106
880-19309-22	S-11, 0.5'	117	93
880-19309-23	S-12, 0'	125	91
880-19309-24	S-12, 0.5'	112	95
880-19309-25	S-13, 0'	108	88
880-19309-26	S-13, 0.5'	111	85
880-19309-27	S-14, 0'	125	104
880-19309-28	S-14, 0.5'	118	97
880-19309-29	S-15, 0'	116	98
880-19309-30	S-15, 0.5'	110	89
880-19309-31	S-16, 0'	115	95
880-19309-32	S-16, 0.5'	97	86
880-19309-33	S-17, 0'	115	95
880-19309-34	S-17, 0.5'	109	92
880-19309-35	S-18, 0'	122	91
880-19309-36	S-18, 0.5'	114	95
880-19309-37	S-19, 0'	112	91
880-19309-38	S-19, 0.5'	113	92
880-19309-39	S-20, 0'	282 S1+	241 S1+
880-19309-40	S-20, 0.5'	0.007 S1-	35 S1-
880-19309-41	S-21, 0'	76	112
880-19309-42	S-21, 0.5'	83	106
880-19309-43	S-22, 0'	86	107
880-19309-44	S-22, 0.5'	76	114
880-19309-45	S-23, 0'	76	108

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

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)
880-19309-46	S-24, 0'	75	104
880-19309-47	S-24, 0.5'	74	106
880-19309-48	S-25, 0-0.5'	70	104
880-19309-49	S-26, 0-0.5'	70	107
880-19309-50	S-27, 0-0.5'	82	126
880-19309-51	S-23, 0.5'	66 S1-	106
LCS 880-35287/1-A	Lab Control Sample	76	108
LCS 880-35288/1-A	Lab Control Sample	120	112
LCS 880-35289/1-A	Lab Control Sample	111	102
LCSD 880-35287/2-A	Lab Control Sample Dup	80	106
LCSD 880-35288/2-A	Lab Control Sample Dup	157 S1+	115
LCSD 880-35289/2-A	Lab Control Sample Dup	112	106
MB 880-35287/5-A	Method Blank	102	116
MB 880-35288/5-A	Method Blank	119	92
MB 880-35289/5-A	Method Blank	104	93

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-19309-1	S-1, 0'	102	99
880-19309-1 MS	S-1, 0'	91	79
880-19309-1 MSD	S-1, 0'	89	77
880-19309-2	S-1, 0.5'	97	99
880-19309-3	S-2, 0'	104	107
880-19309-4	S-2, 0.5'	102	100
880-19309-5	S-3, 0'	103	105
880-19309-6	S-3, 0.5'	105	108
880-19309-7	S-4, 0'	104	107
880-19309-8	S-4, 0.5'	102	108
880-19309-9	S-5, 0'	109	110
880-19309-10	S-5, 0.5'	100	100
880-19309-11	S-6, 0'	108	102
880-19309-12	S-6, 0.5'	99	94
880-19309-13	S-7, 0'	110	108
880-19309-14	S-7, 0.5'	98	99
880-19309-15	S-8, 0'	99	91
880-19309-16	S-8, 0.5'	97	92
880-19309-17	S-9, 0'	103	104
880-19309-18	S-9, 0.5'	93	91
880-19309-19	S-10, 0'	95	99
880-19309-20	S-10, 0.5'	111	112
880-19309-21	S-11, 0'	106	108
880-19309-21 MS	S-11, 0'	99	89
880-19309-21 MSD	S-11, 0'	95	87

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

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)
880-19309-22	S-11, 0.5'	106	113
880-19309-23	S-12, 0'	103	105
880-19309-24	S-12, 0.5'	106	110
880-19309-25	S-13, 0'	105	110
880-19309-26	S-13, 0.5'	115	121
880-19309-27	S-14, 0'	106	109
880-19309-28	S-14, 0.5'	102	104
880-19309-29	S-15, 0'	106	106
880-19309-30	S-15, 0.5'	105	104
880-19309-31	S-16, 0'	106	108
880-19309-32	S-16, 0.5'	118	117
880-19309-33	S-17, 0'	106	106
880-19309-34	S-17, 0.5'	99	103
880-19309-35	S-18, 0'	110	111
880-19309-36	S-18, 0.5'	104	110
880-19309-37	S-19, 0'	108	109
880-19309-38	S-19, 0.5'	100	102
880-19309-39	S-20, 0'	111	115
880-19309-40	S-20, 0.5'	107	108
880-19309-41	S-21, 0'	120	114
880-19309-41 MS	S-21, 0'	111	88
880-19309-41 MSD	S-21, 0'	110	90
880-19309-42	S-21, 0.5'	118	115
880-19309-43	S-22, 0'	108	97
880-19309-44	S-22, 0.5'	120	115
880-19309-45	S-23, 0'	105	93
880-19309-46	S-24, 0'	104	98
880-19309-47	S-24, 0.5'	108	100
880-19309-48	S-25, 0-0.5'	115	115
880-19309-49	S-26, 0-0.5'	122	118
880-19309-50	S-27, 0-0.5'	93	84
880-19309-51	S-23, 0.5'	114	108
LCS 880-34682/2-A	Lab Control Sample	95	104
LCS 880-34683/2-A	Lab Control Sample	98	107
LCS 880-34684/2-A	Lab Control Sample	124	106
LCSD 880-34682/3-A	Lab Control Sample Dup	98	108
LCSD 880-34683/3-A	Lab Control Sample Dup	100	110
LCSD 880-34684/3-A	Lab Control Sample Dup	106	93
MB 880-34682/1-A	Method Blank	127	132 S1+
MB 880-34683/1-A	Method Blank	134 S1+	142 S1+
MB 880-34684/1-A	Method Blank	157 S1+	150 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35287/5-A
Matrix: Solid
Analysis Batch: 35560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35287

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 12:11	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/23/22 15:07	09/28/22 12:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:07	09/28/22 12:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/23/22 15:07	09/28/22 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*09/23/22 15:07*	*09/28/22 12:11*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*09/23/22 15:07*	*09/28/22 12:11*	*1*

Lab Sample ID: LCS 880-35287/1-A
Matrix: Solid
Analysis Batch: 35560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35287

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1241		mg/Kg		124	70 - 130		
Toluene			0.100	0.09590		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09201		mg/Kg		92	70 - 130		
m,p-Xylenes			0.200	0.1861		mg/Kg		93	70 - 130		
o-Xylene			0.100	0.09135		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-35287/2-A
Matrix: Solid
Analysis Batch: 35560

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35287

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1230		mg/Kg		123	70 - 130	1	35
Toluene			0.100	0.09467		mg/Kg		95	70 - 130	1	35
Ethylbenzene			0.100	0.09080		mg/Kg		91	70 - 130	1	35
m,p-Xylenes			0.200	0.1846		mg/Kg		92	70 - 130	1	35
o-Xylene			0.100	0.09130		mg/Kg		91	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-35288/5-A
Matrix: Solid
Analysis Batch: 35584

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35288

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:24	09/28/22 13:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:24	09/28/22 13:37	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

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

Lab Sample ID: MB 880-35288/5-A
Matrix: Solid
Analysis Batch: 35584

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35288

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:24	09/28/22 13:37	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/23/22 15:24	09/28/22 13:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:24	09/28/22 13:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/23/22 15:24	09/28/22 13:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*09/23/22 15:24*	*09/28/22 13:37*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*09/23/22 15:24*	*09/28/22 13:37*	*1*

Lab Sample ID: LCS 880-35288/1-A
Matrix: Solid
Analysis Batch: 35584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35288

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1388	*+	mg/Kg		139	70 - 130		
Toluene			0.100	0.1186		mg/Kg		119	70 - 130		
Ethylbenzene			0.100	0.1246		mg/Kg		125	70 - 130		
m,p-Xylenes			0.200	0.2622	*+	mg/Kg		131	70 - 130		
o-Xylene			0.100	0.1278		mg/Kg		128	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-35288/2-A
Matrix: Solid
Analysis Batch: 35584

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35288

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1346	*+	mg/Kg		135	70 - 130	3	35
Toluene			0.100	0.1306	*+	mg/Kg		131	70 - 130	10	35
Ethylbenzene			0.100	0.1542	*+	mg/Kg		154	70 - 130	21	35
m,p-Xylenes			0.200	0.3407	*+	mg/Kg		170	70 - 130	26	35
o-Xylene			0.100	0.1650	*+	mg/Kg		165	70 - 130	25	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*157*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 880-19309-1 MS
Matrix: Solid
Analysis Batch: 35584

Client Sample ID: S-1, 0'
Prep Type: Total/NA
Prep Batch: 35288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U *+	0.0998	0.1290		mg/Kg		129	70 - 130		
Toluene	<0.00202	U *+	0.0998	0.1256		mg/Kg		125	70 - 130		
Ethylbenzene	<0.00202	U *+ F1	0.0998	0.1433	F1	mg/Kg		144	70 - 130		
m,p-Xylenes	<0.00404	U *+ F1	0.200	0.3169	F1	mg/Kg		159	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

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

Lab Sample ID: 880-19309-1 MS
Matrix: Solid
Analysis Batch: 35584

Client Sample ID: S-1, 0'
Prep Type: Total/NA
Prep Batch: 35288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00202	U *+ F1	0.0998	0.1546	F1	mg/Kg		154	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*157*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*130*		*70 - 130*

Lab Sample ID: 880-19309-1 MSD
Matrix: Solid
Analysis Batch: 35584

Client Sample ID: S-1, 0'
Prep Type: Total/NA
Prep Batch: 35288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U *+	0.0996	0.1108		mg/Kg		111	70 - 130	15	35
Toluene	<0.00202	U *+	0.0996	0.1126		mg/Kg		112	70 - 130	11	35
Ethylbenzene	<0.00202	U *+ F1	0.0996	0.1290		mg/Kg		129	70 - 130	11	35
m,p-Xylenes	<0.00404	U *+ F1	0.199	0.2882	F1	mg/Kg		145	70 - 130	9	35
o-Xylene	<0.00202	U *+ F1	0.0996	0.1400	F1	mg/Kg		140	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*157*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*135*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-35289/5-A
Matrix: Solid
Analysis Batch: 35552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35289

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 11:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 11:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 11:41	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		09/23/22 15:27	09/28/22 11:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/22 15:27	09/28/22 11:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/23/22 15:27	09/28/22 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/23/22 15:27*	*09/28/22 11:41*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*09/23/22 15:27*	*09/28/22 11:41*	*1*

Lab Sample ID: LCS 880-35289/1-A
Matrix: Solid
Analysis Batch: 35552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1058		mg/Kg		106	70 - 130
Toluene	0.100	0.09842		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09796		mg/Kg		98	70 - 130
m,p-Xylenes	0.200	0.2037		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1160		mg/Kg		116	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

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

Lab Sample ID: LCS 880-35289/1-A
Matrix: Solid
Analysis Batch: 35552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35289

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-35289/2-A
Matrix: Solid
Analysis Batch: 35552

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35289

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1025		mg/Kg		103	70 - 130	3	35
Toluene			0.100	0.09346		mg/Kg		93	70 - 130	5	35
Ethylbenzene			0.100	0.09453		mg/Kg		95	70 - 130	4	35
m,p-Xylenes			0.200	0.1953		mg/Kg		98	70 - 130	4	35
o-Xylene			0.100	0.1116		mg/Kg		112	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-19309-21 MS
Matrix: Solid
Analysis Batch: 35552

Client Sample ID: S-11, 0'
Prep Type: Total/NA
Prep Batch: 35289

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.08414		mg/Kg		84	70 - 130		
Toluene	<0.00201	U	0.100	0.08702		mg/Kg		87	70 - 130		
Ethylbenzene	<0.00201	U	0.100	0.09707		mg/Kg		97	70 - 130		
m,p-Xylenes	<0.00402	U	0.201	0.2004		mg/Kg		100	70 - 130		
o-Xylene	<0.00201	U	0.100	0.1130		mg/Kg		113	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-19309-21 MSD
Matrix: Solid
Analysis Batch: 35552

Client Sample ID: S-11, 0'
Prep Type: Total/NA
Prep Batch: 35289

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.09271		mg/Kg		94	70 - 130	10	35
Toluene	<0.00201	U	0.0990	0.08250		mg/Kg		83	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.0990	0.08648		mg/Kg		87	70 - 130	12	35
m,p-Xylenes	<0.00402	U	0.198	0.1753		mg/Kg		89	70 - 130	13	35
o-Xylene	<0.00201	U	0.0990	0.09921		mg/Kg		100	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

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

Lab Sample ID: MB 880-34682/1-A
Matrix: Solid
Analysis Batch: 34716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34682

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 10:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 10:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:59	09/18/22 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*127*		*70 - 130*	*09/16/22 13:59*	*09/18/22 10:36*	*1*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*	*09/16/22 13:59*	*09/18/22 10:36*	*1*

Lab Sample ID: LCS 880-34682/2-A
Matrix: Solid
Analysis Batch: 34716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34682

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1144		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	786.0		mg/Kg		79	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*95*		*70 - 130*
o-Terphenyl (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-34682/3-A
Matrix: Solid
Analysis Batch: 34716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34682

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1144		mg/Kg		114	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	793.2		mg/Kg		79	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*98*		*70 - 130*
o-Terphenyl (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-19309-1 MS
Matrix: Solid
Analysis Batch: 34716

Client Sample ID: S-1, 0'
Prep Type: Total/NA
Prep Batch: 34682

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	1211		mg/Kg		118	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	881.2		mg/Kg		84	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

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

Lab Sample ID: 880-19309-1 MS
Matrix: Solid
Analysis Batch: 34716

Client Sample ID: S-1, 0'
Prep Type: Total/NA
Prep Batch: 34682

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	91		70 - 130
o-Terphenyl (Surr)	79		70 - 130

Lab Sample ID: 880-19309-1 MSD
Matrix: Solid
Analysis Batch: 34716

Client Sample ID: S-1, 0'
Prep Type: Total/NA
Prep Batch: 34682

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	1166		mg/Kg		113	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	867.1		mg/Kg		82	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	89		70 - 130
o-Terphenyl (Surr)	77		70 - 130

Lab Sample ID: MB 880-34683/1-A
Matrix: Solid
Analysis Batch: 34716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34683

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/18/22 20:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/18/22 20:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:02	09/18/22 20:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	134	S1+	70 - 130	09/16/22 14:02	09/18/22 20:31	1
o-Terphenyl (Surr)	142	S1+	70 - 130	09/16/22 14:02	09/18/22 20:31	1

Lab Sample ID: LCS 880-34683/2-A
Matrix: Solid
Analysis Batch: 34716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34683

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	831.8		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	826.2		mg/Kg		83	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	98		70 - 130
o-Terphenyl (Surr)	107		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

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

Lab Sample ID: LCSD 880-34683/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 34716 — **Prep Batch: 34683**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	834.6		mg/Kg		83	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	829.4		mg/Kg		83	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*100*		*70 - 130*
o-Terphenyl (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-19309-21 MS — **Client Sample ID: S-11, 0'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 34716 — **Prep Batch: 34683**

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	996	1480	F1	mg/Kg		145	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	915.5		mg/Kg		89	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*99*		*70 - 130*
o-Terphenyl (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-19309-21 MSD — **Client Sample ID: S-11, 0'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 34716 — **Prep Batch: 34683**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	1246		mg/Kg		121	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	891.9		mg/Kg		86	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*95*		*70 - 130*
o-Terphenyl (Surr)	*87*		*70 - 130*

Lab Sample ID: MB 880-34684/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 34705 — **Prep Batch: 34684**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 14:47	09/17/22 20:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 14:47	09/17/22 20:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 14:47	09/17/22 20:03	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

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

Lab Sample ID: MB 880-34684/1-A
Matrix: Solid
Analysis Batch: 34705

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34684

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	157	S1+	70 - 130	09/16/22 14:47	09/17/22 20:03	1
o-Terphenyl (Surr)	150	S1+	70 - 130	09/16/22 14:47	09/17/22 20:03	1

Lab Sample ID: LCS 880-34684/2-A
Matrix: Solid
Analysis Batch: 34705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	829.4		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	983.1		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	124		70 - 130
o-Terphenyl (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-34684/3-A
Matrix: Solid
Analysis Batch: 34705

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34684

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1021	*1	mg/Kg		102	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	1000	872.8		mg/Kg		87	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	93		70 - 130

Lab Sample ID: 880-19309-41 MS
Matrix: Solid
Analysis Batch: 34705

Client Sample ID: S-21, 0'
Prep Type: Total/NA
Prep Batch: 34684

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	858.2		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	475	F1	996	597.4	F1	mg/Kg		12	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	111		70 - 130
o-Terphenyl (Surr)	88		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

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

Lab Sample ID: 880-19309-41 MSD
Matrix: Solid
Analysis Batch: 34705

Client Sample ID: S-21, 0'
Prep Type: Total/NA
Prep Batch: 34684

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	822.5		mg/Kg		82	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	475	F1	999	605.6	F1	mg/Kg		13	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*110*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34504/1-A
Matrix: Solid
Analysis Batch: 34704

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/17/22 02:22	1

Lab Sample ID: LCS 880-34504/2-A
Matrix: Solid
Analysis Batch: 34704

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.6		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-34504/3-A
Matrix: Solid
Analysis Batch: 34704

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	255.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-34671/1-A
Matrix: Solid
Analysis Batch: 34985

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/21/22 16:39	1

Lab Sample ID: LCS 880-34671/2-A
Matrix: Solid
Analysis Batch: 34985

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.2		mg/Kg		100	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-34671/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 34985

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	250.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-19309-21 MS — **Client Sample ID: S-11, 0'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 34985

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	23600	F1	12400	42540	F1	mg/Kg		153	90 - 110		

Lab Sample ID: 880-19309-21 MSD — **Client Sample ID: S-11, 0'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 34985

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	23600	F1	12400	42690	F1	mg/Kg		154	90 - 110	0	20

Lab Sample ID: 880-19309-31 MS — **Client Sample ID: S-16, 0'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 34985

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	20700	F1	12500	38090	F1	mg/Kg		139	90 - 110		

Lab Sample ID: 880-19309-31 MSD — **Client Sample ID: S-16, 0'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 34985

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20700	F1	12500	38040	F1	mg/Kg		139	90 - 110	0	20

Lab Sample ID: MB 880-34670/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35104

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/22/22 03:59	1

Lab Sample ID: LCS 880-34670/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35104

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.1		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-34670/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35104

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	255.6		mg/Kg		102	90 - 110	0	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-19309-1 MS
Matrix: Solid
Analysis Batch: 35104

Client Sample ID: S-1, 0'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8240		2500	10700		mg/Kg		98	90 - 110

Lab Sample ID: 880-19309-1 MSD
Matrix: Solid
Analysis Batch: 35104

Client Sample ID: S-1, 0'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8240		2500	10720		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-19309-11 MS
Matrix: Solid
Analysis Batch: 35104

Client Sample ID: S-6, 0'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30600		12500	43040		mg/Kg		100	90 - 110

Lab Sample ID: 880-19309-11 MSD
Matrix: Solid
Analysis Batch: 35104

Client Sample ID: S-6, 0'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	30600		12500	43210		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-34672/1-A
Matrix: Solid
Analysis Batch: 35105

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/22/22 06:48	1

Lab Sample ID: LCS 880-34672/2-A
Matrix: Solid
Analysis Batch: 35105

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.5		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-34672/3-A
Matrix: Solid
Analysis Batch: 35105

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-19309-33 MS
Matrix: Solid
Analysis Batch: 35105

Client Sample ID: S-17, 0'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	34600	F1	24800	66370	F1	mg/Kg		128	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-19309-33 MSD — **Client Sample ID: S-17, 0'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	34600	F1	24800	66560	F1	mg/Kg		129	90 - 110	0	20

Lab Sample ID: 880-19309-43 MS — **Client Sample ID: S-22, 0'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	26600		25100	52460		mg/Kg		103	90 - 110

Lab Sample ID: 880-19309-43 MSD — **Client Sample ID: S-22, 0'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 35105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	26600		25100	52420		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

GC VOA

Prep Batch: 35287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-41	S-21, 0'	Total/NA	Solid	5035	
880-19309-42	S-21, 0.5'	Total/NA	Solid	5035	
880-19309-43	S-22, 0'	Total/NA	Solid	5035	
880-19309-44	S-22, 0.5'	Total/NA	Solid	5035	
880-19309-45	S-23, 0'	Total/NA	Solid	5035	
880-19309-46	S-24, 0'	Total/NA	Solid	5035	
880-19309-47	S-24, 0.5'	Total/NA	Solid	5035	
880-19309-48	S-25, 0-0.5'	Total/NA	Solid	5035	
880-19309-49	S-26, 0-0.5'	Total/NA	Solid	5035	
880-19309-50	S-27, 0-0.5'	Total/NA	Solid	5035	
880-19309-51	S-23, 0.5'	Total/NA	Solid	5035	
MB 880-35287/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35287/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35287/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 35288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-1	S-1, 0'	Total/NA	Solid	5035	
880-19309-2	S-1, 0.5'	Total/NA	Solid	5035	
880-19309-3	S-2, 0'	Total/NA	Solid	5035	
880-19309-4	S-2, 0.5'	Total/NA	Solid	5035	
880-19309-5	S-3, 0'	Total/NA	Solid	5035	
880-19309-6	S-3, 0.5'	Total/NA	Solid	5035	
880-19309-7	S-4, 0'	Total/NA	Solid	5035	
880-19309-8	S-4, 0.5'	Total/NA	Solid	5035	
880-19309-9	S-5, 0'	Total/NA	Solid	5035	
880-19309-10	S-5, 0.5'	Total/NA	Solid	5035	
880-19309-11	S-6, 0'	Total/NA	Solid	5035	
880-19309-12	S-6, 0.5'	Total/NA	Solid	5035	
880-19309-13	S-7, 0'	Total/NA	Solid	5035	
880-19309-14	S-7, 0.5'	Total/NA	Solid	5035	
880-19309-15	S-8, 0'	Total/NA	Solid	5035	
880-19309-16	S-8, 0.5'	Total/NA	Solid	5035	
880-19309-17	S-9, 0'	Total/NA	Solid	5035	
880-19309-18	S-9, 0.5'	Total/NA	Solid	5035	
880-19309-19	S-10, 0'	Total/NA	Solid	5035	
880-19309-20	S-10, 0.5'	Total/NA	Solid	5035	
MB 880-35288/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35288/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35288/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19309-1 MS	S-1, 0'	Total/NA	Solid	5035	
880-19309-1 MSD	S-1, 0'	Total/NA	Solid	5035	

Prep Batch: 35289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-21	S-11, 0'	Total/NA	Solid	5035	
880-19309-22	S-11, 0.5'	Total/NA	Solid	5035	
880-19309-23	S-12, 0'	Total/NA	Solid	5035	
880-19309-24	S-12, 0.5'	Total/NA	Solid	5035	
880-19309-25	S-13, 0'	Total/NA	Solid	5035	
880-19309-26	S-13, 0.5'	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

GC VOA (Continued)

Prep Batch: 35289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-27	S-14, 0'	Total/NA	Solid	5035	
880-19309-28	S-14, 0.5'	Total/NA	Solid	5035	
880-19309-29	S-15, 0'	Total/NA	Solid	5035	
880-19309-30	S-15, 0.5'	Total/NA	Solid	5035	
880-19309-31	S-16, 0'	Total/NA	Solid	5035	
880-19309-32	S-16, 0.5'	Total/NA	Solid	5035	
880-19309-33	S-17, 0'	Total/NA	Solid	5035	
880-19309-34	S-17, 0.5'	Total/NA	Solid	5035	
880-19309-35	S-18, 0'	Total/NA	Solid	5035	
880-19309-36	S-18, 0.5'	Total/NA	Solid	5035	
880-19309-37	S-19, 0'	Total/NA	Solid	5035	
880-19309-38	S-19, 0.5'	Total/NA	Solid	5035	
880-19309-39	S-20, 0'	Total/NA	Solid	5035	
880-19309-40	S-20, 0.5'	Total/NA	Solid	5035	
MB 880-35289/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35289/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35289/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19309-21 MS	S-11, 0'	Total/NA	Solid	5035	
880-19309-21 MSD	S-11, 0'	Total/NA	Solid	5035	

Analysis Batch: 35552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-21	S-11, 0'	Total/NA	Solid	8021B	35289
880-19309-22	S-11, 0.5'	Total/NA	Solid	8021B	35289
880-19309-23	S-12, 0'	Total/NA	Solid	8021B	35289
880-19309-24	S-12, 0.5'	Total/NA	Solid	8021B	35289
880-19309-25	S-13, 0'	Total/NA	Solid	8021B	35289
880-19309-26	S-13, 0.5'	Total/NA	Solid	8021B	35289
880-19309-27	S-14, 0'	Total/NA	Solid	8021B	35289
880-19309-28	S-14, 0.5'	Total/NA	Solid	8021B	35289
880-19309-29	S-15, 0'	Total/NA	Solid	8021B	35289
880-19309-30	S-15, 0.5'	Total/NA	Solid	8021B	35289
880-19309-31	S-16, 0'	Total/NA	Solid	8021B	35289
880-19309-32	S-16, 0.5'	Total/NA	Solid	8021B	35289
880-19309-33	S-17, 0'	Total/NA	Solid	8021B	35289
880-19309-34	S-17, 0.5'	Total/NA	Solid	8021B	35289
880-19309-35	S-18, 0'	Total/NA	Solid	8021B	35289
880-19309-36	S-18, 0.5'	Total/NA	Solid	8021B	35289
880-19309-37	S-19, 0'	Total/NA	Solid	8021B	35289
880-19309-38	S-19, 0.5'	Total/NA	Solid	8021B	35289
880-19309-39	S-20, 0'	Total/NA	Solid	8021B	35289
880-19309-40	S-20, 0.5'	Total/NA	Solid	8021B	35289
MB 880-35289/5-A	Method Blank	Total/NA	Solid	8021B	35289
LCS 880-35289/1-A	Lab Control Sample	Total/NA	Solid	8021B	35289
LCSD 880-35289/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35289
880-19309-21 MS	S-11, 0'	Total/NA	Solid	8021B	35289
880-19309-21 MSD	S-11, 0'	Total/NA	Solid	8021B	35289

Analysis Batch: 35560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-41	S-21, 0'	Total/NA	Solid	8021B	35287

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

GC VOA (Continued)

Analysis Batch: 35560 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-42	S-21, 0.5'	Total/NA	Solid	8021B	35287
880-19309-43	S-22, 0'	Total/NA	Solid	8021B	35287
880-19309-44	S-22, 0.5'	Total/NA	Solid	8021B	35287
880-19309-45	S-23, 0'	Total/NA	Solid	8021B	35287
880-19309-46	S-24, 0'	Total/NA	Solid	8021B	35287
880-19309-47	S-24, 0.5'	Total/NA	Solid	8021B	35287
880-19309-48	S-25, 0-0.5'	Total/NA	Solid	8021B	35287
880-19309-49	S-26, 0-0.5'	Total/NA	Solid	8021B	35287
880-19309-50	S-27, 0-0.5'	Total/NA	Solid	8021B	35287
880-19309-51	S-23, 0.5'	Total/NA	Solid	8021B	35287
MB 880-35287/5-A	Method Blank	Total/NA	Solid	8021B	35287
LCS 880-35287/1-A	Lab Control Sample	Total/NA	Solid	8021B	35287
LCSD 880-35287/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35287

Analysis Batch: 35584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-1	S-1, 0'	Total/NA	Solid	8021B	35288
880-19309-2	S-1, 0.5'	Total/NA	Solid	8021B	35288
880-19309-3	S-2, 0'	Total/NA	Solid	8021B	35288
880-19309-4	S-2, 0.5'	Total/NA	Solid	8021B	35288
880-19309-5	S-3, 0'	Total/NA	Solid	8021B	35288
880-19309-6	S-3, 0.5'	Total/NA	Solid	8021B	35288
880-19309-7	S-4, 0'	Total/NA	Solid	8021B	35288
880-19309-8	S-4, 0.5'	Total/NA	Solid	8021B	35288
880-19309-9	S-5, 0'	Total/NA	Solid	8021B	35288
880-19309-10	S-5, 0.5'	Total/NA	Solid	8021B	35288
880-19309-11	S-6, 0'	Total/NA	Solid	8021B	35288
880-19309-12	S-6, 0.5'	Total/NA	Solid	8021B	35288
880-19309-13	S-7, 0'	Total/NA	Solid	8021B	35288
880-19309-14	S-7, 0.5'	Total/NA	Solid	8021B	35288
880-19309-15	S-8, 0'	Total/NA	Solid	8021B	35288
880-19309-16	S-8, 0.5'	Total/NA	Solid	8021B	35288
880-19309-17	S-9, 0'	Total/NA	Solid	8021B	35288
880-19309-18	S-9, 0.5'	Total/NA	Solid	8021B	35288
880-19309-19	S-10, 0'	Total/NA	Solid	8021B	35288
880-19309-20	S-10, 0.5'	Total/NA	Solid	8021B	35288
MB 880-35288/5-A	Method Blank	Total/NA	Solid	8021B	35288
LCS 880-35288/1-A	Lab Control Sample	Total/NA	Solid	8021B	35288
LCSD 880-35288/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35288
880-19309-1 MS	S-1, 0'	Total/NA	Solid	8021B	35288
880-19309-1 MSD	S-1, 0'	Total/NA	Solid	8021B	35288

Analysis Batch: 35629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-1	S-1, 0'	Total/NA	Solid	Total BTEX	
880-19309-2	S-1, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-3	S-2, 0'	Total/NA	Solid	Total BTEX	
880-19309-4	S-2, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-5	S-3, 0'	Total/NA	Solid	Total BTEX	
880-19309-6	S-3, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-7	S-4, 0'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

GC VOA (Continued)

Analysis Batch: 35629 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-8	S-4, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-9	S-5, 0'	Total/NA	Solid	Total BTEX	
880-19309-10	S-5, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-11	S-6, 0'	Total/NA	Solid	Total BTEX	
880-19309-12	S-6, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-13	S-7, 0'	Total/NA	Solid	Total BTEX	
880-19309-14	S-7, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-15	S-8, 0'	Total/NA	Solid	Total BTEX	
880-19309-16	S-8, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-17	S-9, 0'	Total/NA	Solid	Total BTEX	
880-19309-18	S-9, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-19	S-10, 0'	Total/NA	Solid	Total BTEX	
880-19309-20	S-10, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-21	S-11, 0'	Total/NA	Solid	Total BTEX	
880-19309-22	S-11, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-23	S-12, 0'	Total/NA	Solid	Total BTEX	
880-19309-24	S-12, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-25	S-13, 0'	Total/NA	Solid	Total BTEX	
880-19309-26	S-13, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-27	S-14, 0'	Total/NA	Solid	Total BTEX	
880-19309-28	S-14, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-29	S-15, 0'	Total/NA	Solid	Total BTEX	
880-19309-30	S-15, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-31	S-16, 0'	Total/NA	Solid	Total BTEX	
880-19309-32	S-16, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-33	S-17, 0'	Total/NA	Solid	Total BTEX	
880-19309-34	S-17, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-35	S-18, 0'	Total/NA	Solid	Total BTEX	
880-19309-36	S-18, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-37	S-19, 0'	Total/NA	Solid	Total BTEX	
880-19309-38	S-19, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-39	S-20, 0'	Total/NA	Solid	Total BTEX	
880-19309-40	S-20, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-41	S-21, 0'	Total/NA	Solid	Total BTEX	
880-19309-42	S-21, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-43	S-22, 0'	Total/NA	Solid	Total BTEX	
880-19309-44	S-22, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-45	S-23, 0'	Total/NA	Solid	Total BTEX	
880-19309-46	S-24, 0'	Total/NA	Solid	Total BTEX	
880-19309-47	S-24, 0.5'	Total/NA	Solid	Total BTEX	
880-19309-48	S-25, 0-0.5'	Total/NA	Solid	Total BTEX	
880-19309-49	S-26, 0-0.5'	Total/NA	Solid	Total BTEX	
880-19309-50	S-27, 0-0.5'	Total/NA	Solid	Total BTEX	
880-19309-51	S-23, 0.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 34682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-1	S-1, 0'	Total/NA	Solid	8015NM Prep	
880-19309-2	S-1, 0.5'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

GC Semi VOA (Continued)

Prep Batch: 34682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-3	S-2, 0'	Total/NA	Solid	8015NM Prep	
880-19309-4	S-2, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-5	S-3, 0'	Total/NA	Solid	8015NM Prep	
880-19309-6	S-3, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-7	S-4, 0'	Total/NA	Solid	8015NM Prep	
880-19309-8	S-4, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-9	S-5, 0'	Total/NA	Solid	8015NM Prep	
880-19309-10	S-5, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-11	S-6, 0'	Total/NA	Solid	8015NM Prep	
880-19309-12	S-6, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-13	S-7, 0'	Total/NA	Solid	8015NM Prep	
880-19309-14	S-7, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-15	S-8, 0'	Total/NA	Solid	8015NM Prep	
880-19309-16	S-8, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-17	S-9, 0'	Total/NA	Solid	8015NM Prep	
880-19309-18	S-9, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-19	S-10, 0'	Total/NA	Solid	8015NM Prep	
880-19309-20	S-10, 0.5'	Total/NA	Solid	8015NM Prep	
MB 880-34682/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34682/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34682/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19309-1 MS	S-1, 0'	Total/NA	Solid	8015NM Prep	
880-19309-1 MSD	S-1, 0'	Total/NA	Solid	8015NM Prep	

Prep Batch: 34683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-21	S-11, 0'	Total/NA	Solid	8015NM Prep	
880-19309-22	S-11, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-23	S-12, 0'	Total/NA	Solid	8015NM Prep	
880-19309-24	S-12, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-25	S-13, 0'	Total/NA	Solid	8015NM Prep	
880-19309-26	S-13, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-27	S-14, 0'	Total/NA	Solid	8015NM Prep	
880-19309-28	S-14, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-29	S-15, 0'	Total/NA	Solid	8015NM Prep	
880-19309-30	S-15, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-31	S-16, 0'	Total/NA	Solid	8015NM Prep	
880-19309-32	S-16, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-33	S-17, 0'	Total/NA	Solid	8015NM Prep	
880-19309-34	S-17, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-35	S-18, 0'	Total/NA	Solid	8015NM Prep	
880-19309-36	S-18, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-37	S-19, 0'	Total/NA	Solid	8015NM Prep	
880-19309-38	S-19, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-39	S-20, 0'	Total/NA	Solid	8015NM Prep	
880-19309-40	S-20, 0.5'	Total/NA	Solid	8015NM Prep	
MB 880-34683/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34683/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34683/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19309-21 MS	S-11, 0'	Total/NA	Solid	8015NM Prep	
880-19309-21 MSD	S-11, 0'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

GC Semi VOA

Prep Batch: 34684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-41	S-21, 0'	Total/NA	Solid	8015NM Prep	
880-19309-42	S-21, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-43	S-22, 0'	Total/NA	Solid	8015NM Prep	
880-19309-44	S-22, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-45	S-23, 0'	Total/NA	Solid	8015NM Prep	
880-19309-46	S-24, 0'	Total/NA	Solid	8015NM Prep	
880-19309-47	S-24, 0.5'	Total/NA	Solid	8015NM Prep	
880-19309-48	S-25, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-19309-49	S-26, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-19309-50	S-27, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-19309-51	S-23, 0.5'	Total/NA	Solid	8015NM Prep	
MB 880-34684/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34684/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34684/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19309-41 MS	S-21, 0'	Total/NA	Solid	8015NM Prep	
880-19309-41 MSD	S-21, 0'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 34705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-41	S-21, 0'	Total/NA	Solid	8015B NM	34684
880-19309-42	S-21, 0.5'	Total/NA	Solid	8015B NM	34684
880-19309-43	S-22, 0'	Total/NA	Solid	8015B NM	34684
880-19309-44	S-22, 0.5'	Total/NA	Solid	8015B NM	34684
880-19309-45	S-23, 0'	Total/NA	Solid	8015B NM	34684
880-19309-46	S-24, 0'	Total/NA	Solid	8015B NM	34684
880-19309-47	S-24, 0.5'	Total/NA	Solid	8015B NM	34684
880-19309-48	S-25, 0-0.5'	Total/NA	Solid	8015B NM	34684
880-19309-49	S-26, 0-0.5'	Total/NA	Solid	8015B NM	34684
880-19309-50	S-27, 0-0.5'	Total/NA	Solid	8015B NM	34684
880-19309-51	S-23, 0.5'	Total/NA	Solid	8015B NM	34684
MB 880-34684/1-A	Method Blank	Total/NA	Solid	8015B NM	34684
LCS 880-34684/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34684
LCSD 880-34684/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34684
880-19309-41 MS	S-21, 0'	Total/NA	Solid	8015B NM	34684
880-19309-41 MSD	S-21, 0'	Total/NA	Solid	8015B NM	34684

Analysis Batch: 34716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-1	S-1, 0'	Total/NA	Solid	8015B NM	34682
880-19309-2	S-1, 0.5'	Total/NA	Solid	8015B NM	34682
880-19309-3	S-2, 0'	Total/NA	Solid	8015B NM	34682
880-19309-4	S-2, 0.5'	Total/NA	Solid	8015B NM	34682
880-19309-5	S-3, 0'	Total/NA	Solid	8015B NM	34682
880-19309-6	S-3, 0.5'	Total/NA	Solid	8015B NM	34682
880-19309-7	S-4, 0'	Total/NA	Solid	8015B NM	34682
880-19309-8	S-4, 0.5'	Total/NA	Solid	8015B NM	34682
880-19309-9	S-5, 0'	Total/NA	Solid	8015B NM	34682
880-19309-10	S-5, 0.5'	Total/NA	Solid	8015B NM	34682
880-19309-11	S-6, 0'	Total/NA	Solid	8015B NM	34682
880-19309-12	S-6, 0.5'	Total/NA	Solid	8015B NM	34682
880-19309-13	S-7, 0'	Total/NA	Solid	8015B NM	34682

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

GC Semi VOA (Continued)

Analysis Batch: 34716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-14	S-7, 0.5'	Total/NA	Solid	8015B NM	34682
880-19309-15	S-8, 0'	Total/NA	Solid	8015B NM	34682
880-19309-16	S-8, 0.5'	Total/NA	Solid	8015B NM	34682
880-19309-17	S-9, 0'	Total/NA	Solid	8015B NM	34682
880-19309-18	S-9, 0.5'	Total/NA	Solid	8015B NM	34682
880-19309-19	S-10, 0'	Total/NA	Solid	8015B NM	34682
880-19309-20	S-10, 0.5'	Total/NA	Solid	8015B NM	34682
880-19309-21	S-11, 0'	Total/NA	Solid	8015B NM	34683
880-19309-22	S-11, 0.5'	Total/NA	Solid	8015B NM	34683
880-19309-23	S-12, 0'	Total/NA	Solid	8015B NM	34683
880-19309-24	S-12, 0.5'	Total/NA	Solid	8015B NM	34683
880-19309-25	S-13, 0'	Total/NA	Solid	8015B NM	34683
880-19309-26	S-13, 0.5'	Total/NA	Solid	8015B NM	34683
880-19309-27	S-14, 0'	Total/NA	Solid	8015B NM	34683
880-19309-28	S-14, 0.5'	Total/NA	Solid	8015B NM	34683
880-19309-29	S-15, 0'	Total/NA	Solid	8015B NM	34683
880-19309-30	S-15, 0.5'	Total/NA	Solid	8015B NM	34683
880-19309-31	S-16, 0'	Total/NA	Solid	8015B NM	34683
880-19309-32	S-16, 0.5'	Total/NA	Solid	8015B NM	34683
880-19309-33	S-17, 0'	Total/NA	Solid	8015B NM	34683
880-19309-34	S-17, 0.5'	Total/NA	Solid	8015B NM	34683
880-19309-35	S-18, 0'	Total/NA	Solid	8015B NM	34683
880-19309-36	S-18, 0.5'	Total/NA	Solid	8015B NM	34683
880-19309-37	S-19, 0'	Total/NA	Solid	8015B NM	34683
880-19309-38	S-19, 0.5'	Total/NA	Solid	8015B NM	34683
880-19309-39	S-20, 0'	Total/NA	Solid	8015B NM	34683
880-19309-40	S-20, 0.5'	Total/NA	Solid	8015B NM	34683
MB 880-34682/1-A	Method Blank	Total/NA	Solid	8015B NM	34682
MB 880-34683/1-A	Method Blank	Total/NA	Solid	8015B NM	34683
LCS 880-34682/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34682
LCS 880-34683/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34683
LCSD 880-34682/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34682
LCSD 880-34683/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34683
880-19309-1 MS	S-1, 0'	Total/NA	Solid	8015B NM	34682
880-19309-1 MSD	S-1, 0'	Total/NA	Solid	8015B NM	34682
880-19309-21 MS	S-11, 0'	Total/NA	Solid	8015B NM	34683
880-19309-21 MSD	S-11, 0'	Total/NA	Solid	8015B NM	34683

Analysis Batch: 34833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-1	S-1, 0'	Total/NA	Solid	8015 NM	
880-19309-2	S-1, 0.5'	Total/NA	Solid	8015 NM	
880-19309-3	S-2, 0'	Total/NA	Solid	8015 NM	
880-19309-4	S-2, 0.5'	Total/NA	Solid	8015 NM	
880-19309-5	S-3, 0'	Total/NA	Solid	8015 NM	
880-19309-6	S-3, 0.5'	Total/NA	Solid	8015 NM	
880-19309-7	S-4, 0'	Total/NA	Solid	8015 NM	
880-19309-8	S-4, 0.5'	Total/NA	Solid	8015 NM	
880-19309-9	S-5, 0'	Total/NA	Solid	8015 NM	
880-19309-10	S-5, 0.5'	Total/NA	Solid	8015 NM	
880-19309-11	S-6, 0'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

GC Semi VOA (Continued)

Analysis Batch: 34833 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-12	S-6, 0.5'	Total/NA	Solid	8015 NM	
880-19309-13	S-7, 0'	Total/NA	Solid	8015 NM	
880-19309-14	S-7, 0.5'	Total/NA	Solid	8015 NM	
880-19309-15	S-8, 0'	Total/NA	Solid	8015 NM	
880-19309-16	S-8, 0.5'	Total/NA	Solid	8015 NM	
880-19309-17	S-9, 0'	Total/NA	Solid	8015 NM	
880-19309-18	S-9, 0.5'	Total/NA	Solid	8015 NM	
880-19309-19	S-10, 0'	Total/NA	Solid	8015 NM	
880-19309-20	S-10, 0.5'	Total/NA	Solid	8015 NM	
880-19309-21	S-11, 0'	Total/NA	Solid	8015 NM	
880-19309-22	S-11, 0.5'	Total/NA	Solid	8015 NM	
880-19309-23	S-12, 0'	Total/NA	Solid	8015 NM	
880-19309-24	S-12, 0.5'	Total/NA	Solid	8015 NM	
880-19309-25	S-13, 0'	Total/NA	Solid	8015 NM	
880-19309-26	S-13, 0.5'	Total/NA	Solid	8015 NM	
880-19309-27	S-14, 0'	Total/NA	Solid	8015 NM	
880-19309-28	S-14, 0.5'	Total/NA	Solid	8015 NM	
880-19309-29	S-15, 0'	Total/NA	Solid	8015 NM	
880-19309-30	S-15, 0.5'	Total/NA	Solid	8015 NM	
880-19309-31	S-16, 0'	Total/NA	Solid	8015 NM	
880-19309-32	S-16, 0.5'	Total/NA	Solid	8015 NM	
880-19309-33	S-17, 0'	Total/NA	Solid	8015 NM	
880-19309-34	S-17, 0.5'	Total/NA	Solid	8015 NM	
880-19309-35	S-18, 0'	Total/NA	Solid	8015 NM	
880-19309-36	S-18, 0.5'	Total/NA	Solid	8015 NM	
880-19309-37	S-19, 0'	Total/NA	Solid	8015 NM	
880-19309-38	S-19, 0.5'	Total/NA	Solid	8015 NM	
880-19309-39	S-20, 0'	Total/NA	Solid	8015 NM	
880-19309-40	S-20, 0.5'	Total/NA	Solid	8015 NM	
880-19309-41	S-21, 0'	Total/NA	Solid	8015 NM	
880-19309-42	S-21, 0.5'	Total/NA	Solid	8015 NM	
880-19309-43	S-22, 0'	Total/NA	Solid	8015 NM	
880-19309-44	S-22, 0.5'	Total/NA	Solid	8015 NM	
880-19309-45	S-23, 0'	Total/NA	Solid	8015 NM	
880-19309-46	S-24, 0'	Total/NA	Solid	8015 NM	
880-19309-47	S-24, 0.5'	Total/NA	Solid	8015 NM	
880-19309-48	S-25, 0-0.5'	Total/NA	Solid	8015 NM	
880-19309-49	S-26, 0-0.5'	Total/NA	Solid	8015 NM	
880-19309-50	S-27, 0-0.5'	Total/NA	Solid	8015 NM	
880-19309-51	S-23, 0.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-51	S-23, 0.5'	Soluble	Solid	DI Leach	
MB 880-34504/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34504/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34504/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

HPLC/IC

Leach Batch: 34670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-1	S-1, 0'	Soluble	Solid	DI Leach	
880-19309-2	S-1, 0.5'	Soluble	Solid	DI Leach	
880-19309-3	S-2, 0'	Soluble	Solid	DI Leach	
880-19309-4	S-2, 0.5'	Soluble	Solid	DI Leach	
880-19309-5	S-3, 0'	Soluble	Solid	DI Leach	
880-19309-6	S-3, 0.5'	Soluble	Solid	DI Leach	
880-19309-7	S-4, 0'	Soluble	Solid	DI Leach	
880-19309-8	S-4, 0.5'	Soluble	Solid	DI Leach	
880-19309-9	S-5, 0'	Soluble	Solid	DI Leach	
880-19309-10	S-5, 0.5'	Soluble	Solid	DI Leach	
880-19309-11	S-6, 0'	Soluble	Solid	DI Leach	
880-19309-12	S-6, 0.5'	Soluble	Solid	DI Leach	
880-19309-13	S-7, 0'	Soluble	Solid	DI Leach	
880-19309-14	S-7, 0.5'	Soluble	Solid	DI Leach	
880-19309-15	S-8, 0'	Soluble	Solid	DI Leach	
880-19309-16	S-8, 0.5'	Soluble	Solid	DI Leach	
880-19309-17	S-9, 0'	Soluble	Solid	DI Leach	
880-19309-18	S-9, 0.5'	Soluble	Solid	DI Leach	
880-19309-19	S-10, 0'	Soluble	Solid	DI Leach	
880-19309-20	S-10, 0.5'	Soluble	Solid	DI Leach	
MB 880-34670/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34670/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34670/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19309-1 MS	S-1, 0'	Soluble	Solid	DI Leach	
880-19309-1 MSD	S-1, 0'	Soluble	Solid	DI Leach	
880-19309-11 MS	S-6, 0'	Soluble	Solid	DI Leach	
880-19309-11 MSD	S-6, 0'	Soluble	Solid	DI Leach	

Leach Batch: 34671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-21	S-11, 0'	Soluble	Solid	DI Leach	
880-19309-22	S-11, 0.5'	Soluble	Solid	DI Leach	
880-19309-23	S-12, 0'	Soluble	Solid	DI Leach	
880-19309-24	S-12, 0.5'	Soluble	Solid	DI Leach	
880-19309-25	S-13, 0'	Soluble	Solid	DI Leach	
880-19309-26	S-13, 0.5'	Soluble	Solid	DI Leach	
880-19309-27	S-14, 0'	Soluble	Solid	DI Leach	
880-19309-28	S-14, 0.5'	Soluble	Solid	DI Leach	
880-19309-29	S-15, 0'	Soluble	Solid	DI Leach	
880-19309-30	S-15, 0.5'	Soluble	Solid	DI Leach	
880-19309-31	S-16, 0'	Soluble	Solid	DI Leach	
880-19309-32	S-16, 0.5'	Soluble	Solid	DI Leach	
MB 880-34671/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34671/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34671/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19309-21 MS	S-11, 0'	Soluble	Solid	DI Leach	
880-19309-21 MSD	S-11, 0'	Soluble	Solid	DI Leach	
880-19309-31 MS	S-16, 0'	Soluble	Solid	DI Leach	
880-19309-31 MSD	S-16, 0'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

HPLC/IC

Leach Batch: 34672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-33	S-17, 0'	Soluble	Solid	DI Leach	
880-19309-34	S-17, 0.5'	Soluble	Solid	DI Leach	
880-19309-35	S-18, 0'	Soluble	Solid	DI Leach	
880-19309-36	S-18, 0.5'	Soluble	Solid	DI Leach	
880-19309-37	S-19, 0'	Soluble	Solid	DI Leach	
880-19309-38	S-19, 0.5'	Soluble	Solid	DI Leach	
880-19309-39	S-20, 0'	Soluble	Solid	DI Leach	
880-19309-40	S-20, 0.5'	Soluble	Solid	DI Leach	
880-19309-41	S-21, 0'	Soluble	Solid	DI Leach	
880-19309-42	S-21, 0.5'	Soluble	Solid	DI Leach	
880-19309-43	S-22, 0'	Soluble	Solid	DI Leach	
880-19309-44	S-22, 0.5'	Soluble	Solid	DI Leach	
880-19309-45	S-23, 0'	Soluble	Solid	DI Leach	
880-19309-46	S-24, 0'	Soluble	Solid	DI Leach	
880-19309-47	S-24, 0.5'	Soluble	Solid	DI Leach	
880-19309-48	S-25, 0-0.5'	Soluble	Solid	DI Leach	
880-19309-49	S-26, 0-0.5'	Soluble	Solid	DI Leach	
880-19309-50	S-27, 0-0.5'	Soluble	Solid	DI Leach	
MB 880-34672/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34672/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34672/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19309-33 MS	S-17, 0'	Soluble	Solid	DI Leach	
880-19309-33 MSD	S-17, 0'	Soluble	Solid	DI Leach	
880-19309-43 MS	S-22, 0'	Soluble	Solid	DI Leach	
880-19309-43 MSD	S-22, 0'	Soluble	Solid	DI Leach	

Analysis Batch: 34704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-51	S-23, 0.5'	Soluble	Solid	300.0	34504
MB 880-34504/1-A	Method Blank	Soluble	Solid	300.0	34504
LCS 880-34504/2-A	Lab Control Sample	Soluble	Solid	300.0	34504
LCSD 880-34504/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34504

Analysis Batch: 34985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-21	S-11, 0'	Soluble	Solid	300.0	34671
880-19309-22	S-11, 0.5'	Soluble	Solid	300.0	34671
880-19309-23	S-12, 0'	Soluble	Solid	300.0	34671
880-19309-24	S-12, 0.5'	Soluble	Solid	300.0	34671
880-19309-25	S-13, 0'	Soluble	Solid	300.0	34671
880-19309-26	S-13, 0.5'	Soluble	Solid	300.0	34671
880-19309-27	S-14, 0'	Soluble	Solid	300.0	34671
880-19309-28	S-14, 0.5'	Soluble	Solid	300.0	34671
880-19309-29	S-15, 0'	Soluble	Solid	300.0	34671
880-19309-30	S-15, 0.5'	Soluble	Solid	300.0	34671
880-19309-31	S-16, 0'	Soluble	Solid	300.0	34671
880-19309-32	S-16, 0.5'	Soluble	Solid	300.0	34671
MB 880-34671/1-A	Method Blank	Soluble	Solid	300.0	34671
LCS 880-34671/2-A	Lab Control Sample	Soluble	Solid	300.0	34671
LCSD 880-34671/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34671
880-19309-21 MS	S-11, 0'	Soluble	Solid	300.0	34671

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

HPLC/IC (Continued)

Analysis Batch: 34985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-21 MSD	S-11, 0'	Soluble	Solid	300.0	34671
880-19309-31 MS	S-16, 0'	Soluble	Solid	300.0	34671
880-19309-31 MSD	S-16, 0'	Soluble	Solid	300.0	34671

Analysis Batch: 35104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-1	S-1, 0'	Soluble	Solid	300.0	34670
880-19309-2	S-1, 0.5'	Soluble	Solid	300.0	34670
880-19309-3	S-2, 0'	Soluble	Solid	300.0	34670
880-19309-4	S-2, 0.5'	Soluble	Solid	300.0	34670
880-19309-5	S-3, 0'	Soluble	Solid	300.0	34670
880-19309-6	S-3, 0.5'	Soluble	Solid	300.0	34670
880-19309-7	S-4, 0'	Soluble	Solid	300.0	34670
880-19309-8	S-4, 0.5'	Soluble	Solid	300.0	34670
880-19309-9	S-5, 0'	Soluble	Solid	300.0	34670
880-19309-10	S-5, 0.5'	Soluble	Solid	300.0	34670
880-19309-11	S-6, 0'	Soluble	Solid	300.0	34670
880-19309-12	S-6, 0.5'	Soluble	Solid	300.0	34670
880-19309-13	S-7, 0'	Soluble	Solid	300.0	34670
880-19309-14	S-7, 0.5'	Soluble	Solid	300.0	34670
880-19309-15	S-8, 0'	Soluble	Solid	300.0	34670
880-19309-16	S-8, 0.5'	Soluble	Solid	300.0	34670
880-19309-17	S-9, 0'	Soluble	Solid	300.0	34670
880-19309-18	S-9, 0.5'	Soluble	Solid	300.0	34670
880-19309-19	S-10, 0'	Soluble	Solid	300.0	34670
880-19309-20	S-10, 0.5'	Soluble	Solid	300.0	34670
MB 880-34670/1-A	Method Blank	Soluble	Solid	300.0	34670
LCS 880-34670/2-A	Lab Control Sample	Soluble	Solid	300.0	34670
LCSD 880-34670/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34670
880-19309-1 MS	S-1, 0'	Soluble	Solid	300.0	34670
880-19309-1 MSD	S-1, 0'	Soluble	Solid	300.0	34670
880-19309-11 MS	S-6, 0'	Soluble	Solid	300.0	34670
880-19309-11 MSD	S-6, 0'	Soluble	Solid	300.0	34670

Analysis Batch: 35105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-33	S-17, 0'	Soluble	Solid	300.0	34672
880-19309-34	S-17, 0.5'	Soluble	Solid	300.0	34672
880-19309-35	S-18, 0'	Soluble	Solid	300.0	34672
880-19309-36	S-18, 0.5'	Soluble	Solid	300.0	34672
880-19309-37	S-19, 0'	Soluble	Solid	300.0	34672
880-19309-38	S-19, 0.5'	Soluble	Solid	300.0	34672
880-19309-39	S-20, 0'	Soluble	Solid	300.0	34672
880-19309-40	S-20, 0.5'	Soluble	Solid	300.0	34672
880-19309-41	S-21, 0'	Soluble	Solid	300.0	34672
880-19309-42	S-21, 0.5'	Soluble	Solid	300.0	34672
880-19309-43	S-22, 0'	Soluble	Solid	300.0	34672
880-19309-44	S-22, 0.5'	Soluble	Solid	300.0	34672
880-19309-45	S-23, 0'	Soluble	Solid	300.0	34672
880-19309-46	S-24, 0'	Soluble	Solid	300.0	34672
880-19309-47	S-24, 0.5'	Soluble	Solid	300.0	34672

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

HPLC/IC (Continued)

Analysis Batch: 35105 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-48	S-25, 0-0.5'	Soluble	Solid	300.0	34672
880-19309-49	S-26, 0-0.5'	Soluble	Solid	300.0	34672
880-19309-50	S-27, 0-0.5'	Soluble	Solid	300.0	34672
MB 880-34672/1-A	Method Blank	Soluble	Solid	300.0	34672
LCS 880-34672/2-A	Lab Control Sample	Soluble	Solid	300.0	34672
LCSD 880-34672/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34672
880-19309-33 MS	S-17, 0'	Soluble	Solid	300.0	34672
880-19309-33 MSD	S-17, 0'	Soluble	Solid	300.0	34672
880-19309-43 MS	S-22, 0'	Soluble	Solid	300.0	34672
880-19309-43 MSD	S-22, 0'	Soluble	Solid	300.0	34672

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-1, 0'
Date Collected: 09/15/22 10:00
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 13:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 11:58	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		10			35104	09/22/22 04:13	CH	EET MID

Client Sample ID: S-1, 0.5'
Date Collected: 09/15/22 10:02
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 14:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 13:02	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		5			35104	09/22/22 04:28	CH	EET MID

Client Sample ID: S-2, 0'
Date Collected: 09/15/22 10:04
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 14:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 13:24	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		20			35104	09/22/22 04:33	CH	EET MID

Client Sample ID: S-2, 0.5'
Date Collected: 09/15/22 10:06
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 15:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-2, 0.5'
Date Collected: 09/15/22 10:06
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-4
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			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 13:45	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		1			35104	09/22/22 04:37	CH	EET MID

Client Sample ID: S-3, 0'
Date Collected: 09/15/22 10:08
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-5
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	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 15:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 14:06	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		50			35104	09/22/22 04:42	CH	EET MID

Client Sample ID: S-3, 0.5'
Date Collected: 09/15/22 10:10
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 15:43	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 14:28	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		5			35104	09/22/22 04:57	CH	EET MID

Client Sample ID: S-4, 0'
Date Collected: 09/15/22 10:12
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-7
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	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 16:03	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 14:49	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-4, 0'
Date Collected: 09/15/22 10:12
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		20			35104	09/22/22 05:02	CH	EET MID

Client Sample ID: S-4, 0.5'
Date Collected: 09/15/22 10:14
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 16:24	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 15:11	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		5			35104	09/22/22 05:07	CH	EET MID

Client Sample ID: S-5, 0'
Date Collected: 09/15/22 10:16
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 16:45	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 15:33	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		50			35104	09/22/22 05:11	CH	EET MID

Client Sample ID: S-5, 0.5'
Date Collected: 09/15/22 10:18
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-10
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			5.03 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 17:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 15:55	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		10			35104	09/22/22 05:16	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-6, 0'
Date Collected: 09/15/22 10:20
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-11
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			4.97 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 18:30	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 16:38	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		50			35104	09/22/22 05:21	CH	EET MID

Client Sample ID: S-6, 0.5'
Date Collected: 09/15/22 10:22
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-12
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			5.01 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 18:51	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 16:59	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		5			35104	09/22/22 05:36	CH	EET MID

Client Sample ID: S-7, 0'
Date Collected: 09/15/22 10:24
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-13
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	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 19:12	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 17:21	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		20			35104	09/22/22 05:40	CH	EET MID

Client Sample ID: S-7, 0.5'
Date Collected: 09/15/22 10:26
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-14
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	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 19:33	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-7, 0.5'
Date Collected: 09/15/22 10:26
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-14
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			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 17:42	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		5			35104	09/22/22 05:55	CH	EET MID

Client Sample ID: S-8, 0'
Date Collected: 09/15/22 10:28
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-15
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	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 19:54	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 18:03	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		10			35104	09/22/22 06:00	CH	EET MID

Client Sample ID: S-8, 0.5'
Date Collected: 09/15/22 10:30
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 20:14	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 18:24	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		1			35104	09/22/22 06:05	CH	EET MID

Client Sample ID: S-9, 0'
Date Collected: 09/15/22 10:32
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 20:35	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 18:46	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-9, 0'
Date Collected: 09/15/22 10:32
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-17
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			5.02 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		50			35104	09/22/22 06:09	CH	EET MID

Client Sample ID: S-9, 0.5'
Date Collected: 09/15/22 10:34
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 20:56	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 19:07	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		5			35104	09/22/22 06:14	CH	EET MID

Client Sample ID: S-10, 0'
Date Collected: 09/15/22 10:36
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 21:17	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 19:28	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		50			35104	09/22/22 06:19	CH	EET MID

Client Sample ID: S-10, 0.5'
Date Collected: 09/15/22 10:38
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 21:38	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 19:49	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		10			35104	09/22/22 06:24	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-11, 0'
Date Collected: 09/15/22 10:40
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-21
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			4.97 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 12:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 21:34	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34671	09/16/22 10:55	CH	EET MID
Soluble	Analysis	300.0		50			34985	09/21/22 16:54	CH	EET MID

Client Sample ID: S-11, 0.5'
Date Collected: 09/15/22 10:42
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 12:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 22:36	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34671	09/16/22 10:55	CH	EET MID
Soluble	Analysis	300.0		5			34985	09/21/22 17:08	CH	EET MID

Client Sample ID: S-12, 0'
Date Collected: 09/15/22 10:44
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 12:43	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 22:56	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34671	09/16/22 10:55	CH	EET MID
Soluble	Analysis	300.0		10			34985	09/21/22 17:13	CH	EET MID

Client Sample ID: S-12, 0.5'
Date Collected: 09/15/22 10:46
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-24
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	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 13:04	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-12, 0.5'
Date Collected: 09/15/22 10:46
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-24
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			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 23:16	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34671	09/16/22 10:55	CH	EET MID
Soluble	Analysis	300.0		1			34985	09/21/22 17:18	CH	EET MID

Client Sample ID: S-13, 0'
Date Collected: 09/15/22 10:48
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-25
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	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 13:24	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 23:36	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34671	09/16/22 10:55	CH	EET MID
Soluble	Analysis	300.0		50			34985	09/21/22 17:23	CH	EET MID

Client Sample ID: S-13, 0.5'
Date Collected: 09/15/22 10:50
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-26
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			4.97 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 13:45	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 23:56	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34671	09/16/22 10:55	CH	EET MID
Soluble	Analysis	300.0		10			34985	09/21/22 17:37	CH	EET MID

Client Sample ID: S-14, 0'
Date Collected: 09/15/22 10:52
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 14:05	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 00:16	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-14, 0'
Date Collected: 09/15/22 10:52
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	34671	09/16/22 10:55	CH	EET MID
Soluble	Analysis	300.0		50			34985	09/21/22 17:42	CH	EET MID

Client Sample ID: S-14, 0.5'
Date Collected: 09/15/22 10:54
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-28
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	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 14:26	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 00:36	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34671	09/16/22 10:55	CH	EET MID
Soluble	Analysis	300.0		1			34985	09/21/22 17:47	CH	EET MID

Client Sample ID: S-15, 0'
Date Collected: 09/15/22 10:56
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-29
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			5.05 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 14:47	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 00:56	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34671	09/16/22 10:55	CH	EET MID
Soluble	Analysis	300.0		50			34985	09/21/22 17:52	CH	EET MID

Client Sample ID: S-15, 0.5'
Date Collected: 09/15/22 10:58
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 15:07	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 01:16	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34671	09/16/22 10:55	CH	EET MID
Soluble	Analysis	300.0		1			34985	09/21/22 17:57	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-16, 0'
Date Collected: 09/15/22 11:00
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 16:30	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 01:56	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34671	09/16/22 10:55	CH	EET MID
Soluble	Analysis	300.0		50			34985	09/21/22 18:02	CH	EET MID

Client Sample ID: S-16, 0.5'
Date Collected: 09/15/22 11:02
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 16:51	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 02:16	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34671	09/16/22 10:55	CH	EET MID
Soluble	Analysis	300.0		1			34985	09/21/22 18:16	CH	EET MID

Client Sample ID: S-17, 0'
Date Collected: 09/15/22 11:04
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-33
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			5.02 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 17:11	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 02:36	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		50			35105	09/22/22 07:03	CH	EET MID

Client Sample ID: S-17, 0.5'
Date Collected: 09/15/22 11:06
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-34
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			5.02 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 17:32	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-17, 0.5'
Date Collected: 09/15/22 11:06
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-34
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			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 02:56	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		5			35105	09/22/22 07:17	CH	EET MID

Client Sample ID: S-18, 0'
Date Collected: 09/15/22 11:08
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 17:52	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 03:16	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		50			35105	09/22/22 07:22	CH	EET MID

Client Sample ID: S-18, 0.5'
Date Collected: 09/15/22 11:10
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-36
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	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 18:13	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 03:36	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		10			35105	09/22/22 07:27	CH	EET MID

Client Sample ID: S-19, 0'
Date Collected: 09/15/22 11:12
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-37
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	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 18:33	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 03:56	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-19, 0'
Date Collected: 09/15/22 11:12
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		20			35105	09/22/22 07:32	CH	EET MID

Client Sample ID: S-19, 0.5'
Date Collected: 09/15/22 11:14
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-38
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			4.97 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 18:54	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 04:16	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		5			35105	09/22/22 07:46	CH	EET MID

Client Sample ID: S-20, 0'
Date Collected: 09/15/22 11:16
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 19:15	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 04:35	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		50			35105	09/22/22 07:51	CH	EET MID

Client Sample ID: S-20, 0.5'
Date Collected: 09/15/22 11:18
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35289	09/23/22 15:27	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/28/22 19:35	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34683	09/16/22 14:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/19/22 04:56	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		1			35105	09/22/22 07:56	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-21, 0'
Date Collected: 09/15/22 11:20
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35287	09/23/22 15:07	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35560	09/28/22 13:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34684	09/16/22 14:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34705	09/17/22 21:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		50			35105	09/22/22 08:01	CH	EET MID

Client Sample ID: S-21, 0.5'
Date Collected: 09/15/22 11:22
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35287	09/23/22 15:07	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35560	09/28/22 14:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34684	09/16/22 14:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34705	09/17/22 22:12	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		1			35105	09/22/22 08:06	CH	EET MID

Client Sample ID: S-22, 0'
Date Collected: 09/15/22 11:24
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35287	09/23/22 15:07	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35560	09/28/22 14:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34684	09/16/22 14:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34705	09/17/22 22:34	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		50			35105	09/22/22 08:11	CH	EET MID

Client Sample ID: S-22, 0.5'
Date Collected: 09/15/22 11:26
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35287	09/23/22 15:07	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35560	09/28/22 14:43	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-22, 0.5'

Date Collected: 09/15/22 11:26
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-44

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34684	09/16/22 14:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34705	09/17/22 22:55	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		1			35105	09/22/22 08:25	CH	EET MID

Client Sample ID: S-23, 0'

Date Collected: 09/15/22 11:28
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35287	09/23/22 15:07	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35560	09/28/22 15:03	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34684	09/16/22 14:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34705	09/17/22 23:17	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		50			35105	09/22/22 08:30	CH	EET MID

Client Sample ID: S-24, 0'

Date Collected: 09/15/22 11:32
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-46

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35287	09/23/22 15:07	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35560	09/28/22 15:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34684	09/16/22 14:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34705	09/17/22 23:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		50			35105	09/22/22 08:45	CH	EET MID

Client Sample ID: S-24, 0.5'

Date Collected: 09/15/22 11:34
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-47

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35287	09/23/22 15:07	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35560	09/28/22 15:44	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34684	09/16/22 14:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34705	09/18/22 00:00	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-24, 0.5'
Date Collected: 09/15/22 11:34
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		5			35105	09/22/22 08:49	CH	EET MID

Client Sample ID: S-25, 0-0.5'
Date Collected: 09/15/22 11:36
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35287	09/23/22 15:07	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35560	09/28/22 17:34	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34684	09/16/22 14:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34705	09/18/22 00:21	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		1			35105	09/22/22 08:54	CH	EET MID

Client Sample ID: S-26, 0-0.5'
Date Collected: 09/15/22 11:38
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-49
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	35287	09/23/22 15:07	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35560	09/28/22 17:55	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34684	09/16/22 14:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34705	09/18/22 00:42	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		1			35105	09/22/22 08:59	CH	EET MID

Client Sample ID: S-27, 0-0.5'
Date Collected: 09/15/22 11:40
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-50
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	35287	09/23/22 15:07	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35560	09/28/22 18:15	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34684	09/16/22 14:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34705	09/18/22 01:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34672	09/16/22 10:57	CH	EET MID
Soluble	Analysis	300.0		1			35105	09/22/22 09:04	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-23, 0.5'
Date Collected: 09/15/22 11:30
Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-51
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			5.03 g	5 mL	35287	09/23/22 15:07	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35560	09/28/22 18:36	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34684	09/16/22 14:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34705	09/18/22 01:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34504	09/16/22 12:01	SMC	EET MID
Soluble	Analysis	300.0		1			34704	09/17/22 04:23	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-19309-1
Project/Site: Sand Dunes (SND) Pad 34 SDG: 22-0104-08

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-19309-1	S-1, 0'	Solid	09/15/22 10:00	09/16/22 09:20
880-19309-2	S-1, 0.5'	Solid	09/15/22 10:02	09/16/22 09:20
880-19309-3	S-2, 0'	Solid	09/15/22 10:04	09/16/22 09:20
880-19309-4	S-2, 0.5'	Solid	09/15/22 10:06	09/16/22 09:20
880-19309-5	S-3, 0'	Solid	09/15/22 10:08	09/16/22 09:20
880-19309-6	S-3, 0.5'	Solid	09/15/22 10:10	09/16/22 09:20
880-19309-7	S-4, 0'	Solid	09/15/22 10:12	09/16/22 09:20
880-19309-8	S-4, 0.5'	Solid	09/15/22 10:14	09/16/22 09:20
880-19309-9	S-5, 0'	Solid	09/15/22 10:16	09/16/22 09:20
880-19309-10	S-5, 0.5'	Solid	09/15/22 10:18	09/16/22 09:20
880-19309-11	S-6, 0'	Solid	09/15/22 10:20	09/16/22 09:20
880-19309-12	S-6, 0.5'	Solid	09/15/22 10:22	09/16/22 09:20
880-19309-13	S-7, 0'	Solid	09/15/22 10:24	09/16/22 09:20
880-19309-14	S-7, 0.5'	Solid	09/15/22 10:26	09/16/22 09:20
880-19309-15	S-8, 0'	Solid	09/15/22 10:28	09/16/22 09:20
880-19309-16	S-8, 0.5'	Solid	09/15/22 10:30	09/16/22 09:20
880-19309-17	S-9, 0'	Solid	09/15/22 10:32	09/16/22 09:20
880-19309-18	S-9, 0.5'	Solid	09/15/22 10:34	09/16/22 09:20
880-19309-19	S-10, 0'	Solid	09/15/22 10:36	09/16/22 09:20
880-19309-20	S-10, 0.5'	Solid	09/15/22 10:38	09/16/22 09:20
880-19309-21	S-11, 0'	Solid	09/15/22 10:40	09/16/22 09:20
880-19309-22	S-11, 0.5'	Solid	09/15/22 10:42	09/16/22 09:20
880-19309-23	S-12, 0'	Solid	09/15/22 10:44	09/16/22 09:20
880-19309-24	S-12, 0.5'	Solid	09/15/22 10:46	09/16/22 09:20
880-19309-25	S-13, 0'	Solid	09/15/22 10:48	09/16/22 09:20
880-19309-26	S-13, 0.5'	Solid	09/15/22 10:50	09/16/22 09:20
880-19309-27	S-14, 0'	Solid	09/15/22 10:52	09/16/22 09:20
880-19309-28	S-14, 0.5'	Solid	09/15/22 10:54	09/16/22 09:20
880-19309-29	S-15, 0'	Solid	09/15/22 10:56	09/16/22 09:20
880-19309-30	S-15, 0.5'	Solid	09/15/22 10:58	09/16/22 09:20
880-19309-31	S-16, 0'	Solid	09/15/22 11:00	09/16/22 09:20
880-19309-32	S-16, 0.5'	Solid	09/15/22 11:02	09/16/22 09:20
880-19309-33	S-17, 0'	Solid	09/15/22 11:04	09/16/22 09:20
880-19309-34	S-17, 0.5'	Solid	09/15/22 11:06	09/16/22 09:20
880-19309-35	S-18, 0'	Solid	09/15/22 11:08	09/16/22 09:20
880-19309-36	S-18, 0.5'	Solid	09/15/22 11:10	09/16/22 09:20
880-19309-37	S-19, 0'	Solid	09/15/22 11:12	09/16/22 09:20
880-19309-38	S-19, 0.5'	Solid	09/15/22 11:14	09/16/22 09:20
880-19309-39	S-20, 0'	Solid	09/15/22 11:16	09/16/22 09:20
880-19309-40	S-20, 0.5'	Solid	09/15/22 11:18	09/16/22 09:20
880-19309-41	S-21, 0'	Solid	09/15/22 11:20	09/16/22 09:20
880-19309-42	S-21, 0.5'	Solid	09/15/22 11:22	09/16/22 09:20
880-19309-43	S-22, 0'	Solid	09/15/22 11:24	09/16/22 09:20
880-19309-44	S-22, 0.5'	Solid	09/15/22 11:26	09/16/22 09:20
880-19309-45	S-23, 0'	Solid	09/15/22 11:28	09/16/22 09:20
880-19309-46	S-24, 0'	Solid	09/15/22 11:32	09/16/22 09:20
880-19309-47	S-24, 0.5'	Solid	09/15/22 11:34	09/16/22 09:20
880-19309-48	S-25, 0-0.5'	Solid	09/15/22 11:36	09/16/22 09:20
880-19309-49	S-26, 0-0.5'	Solid	09/15/22 11:38	09/16/22 09:20
880-19309-50	S-27, 0-0.5'	Solid	09/15/22 11:40	09/16/22 09:20
880-19309-51	S-23, 0.5'	Solid	09/15/22 11:30	09/16/22 09:20

19309 No. 2723

CHAIN-OF-CUSTODY

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

Data Reported to

DATE: 9/16/2022 PAGE 1 OF 4

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME: Sand Dunes (SND) Pad 34

LAI PROJECT #: 22-0104-08 COLLECTOR: RN + JH

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST/NM

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

ANALYSES: BTEX 4 ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ | TPH 1006 ☐ | GASOLINE MOD 8015 4 | DIESEL - MOD 8015 4 | OIL - MOD 8015 4 | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ | HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ | TCLP VOC ☐ | TCLP - PEST ☐ | HERB ☐ | Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ | OTHER LIST ☐ | LEAD - TOTAL ☐ | D W 200.8 ☐ | TCLP ☐ | RCI ☐ | TOX ☐ | FLASHPOINT ☐ | TDS ☐ | TSS ☐ | % MOISTURE ☐ | pH ☐ | HEXAVALENT CHROMIUM ☐ | CYANIDE ☐ | EXPLOSIVES ☐ | PECHLORATE ☐ | CHLORIDES 4 | ANIONS ☐ | ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	TPH 1005	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	CHLORIDES	FIELD NOTES
S-1, 0'		9/15/22	1000	S	1				X		X	X	X	X	X	X	
S-1, 0.5'			1002														
S-2, 0'			1004														
S-2, 0.5'			1006														
S-3, 0'			1008														
S-3, 0.5'			1010														
S-4, 0'			1012														
S-4, 0.5'			1014														
S-5, 0'			1016														
S-5, 0.5'			1018														
S-6, 0'			1020														
S-6, 0.5'			1022														
S-7, 0'			1024														
S-7, 0.5			1026														
S-8, 0'			1028														
TOTAL																	

880-19309 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	9/16/22 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 8/10 THERM# IR8.20
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

19309 No. 2724

CHAIN-OF-CUSTODY

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

DATE: 9/16/2022 PAGE 2 OF 4

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Sand Dunes (SWD) Pad 34

LAI PROJECT #: 22-0104-08 COLLECTOR: RN + JH

Data Reported to

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-8, 0.5'		9/15/22	1030	S	1				X		X		X	X	X													X	
S-9, 0'			1032																										
S-9, 0.5'			1034																										
S-10, 0'			1036																										
S-10, 0.5'			1038																										
S-11, 0'			1040																										
S-11, 0.5'			1042																										
S-12, 0'			1044																										
S-12, 0.5'			1046																										
S-13, 0'			1048																										
S-13, 0.5'			1050																										
S-14, 0'			1052																										
S-14, 0.5'			1054																										
S-15, 0'			1056																										
S-15, 0.5'			1058																										
TOTAL																													

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	9/16/22 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 8/1.0 THERM# IR8 .20
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

19309 No. 2725

CHAIN-OF-CUSTODY

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

Data Reported to

DATE: 9/16/2022 PAGE 3 OF 4

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Sand Dunes (SND) Pad 34

LAI PROJECT # 22-0104-08 COLLECTOR: RN & JH

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-16, 0'		9/15/22	1100	S	1				X		X		X	X	X													X	
S-16, 0.5'			1102																										
S-17, 0'			1104																										
S-17, 0.5'			1106																										
S-18, 0'			1108																										
S-18, 0.5'			1110																										
S-19, 0'			1112																										
S-19, 0.5'			1114																										
S-20, 0'			1116																										
S-20, 0.5'			1118																										
S-21, 0'			1120																										
S-21, 0.5'			1122																										
S-22, 0'			1124																										
S-22, 0.5'			1126																										
S-23, 0'			1128																										
TOTAL																													

RELINQUISHED BY (Signature) DATE/TIME 9/16/22 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 @ 1.0 THERM# IR8 . 20
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

19309 No. 2726

CHAIN-OF-CUSTODY

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

Data Reported to

DATE: 9/16/2022 PAGE 4 OF 4

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Sand Dunes (SND) Pad 34

LAI PROJECT #: 22-0104-08 COLLECTOR: RN & JH

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-24, 0'		9/15/22	1132	S	1				X		X		X	X	X													X	
S-24, 0.5		"	1134	"	"				"		"		"	"	"													"	
S-25, 0-0.5'		"	1136	"	"				"		"		"	"	"													"	
S-26 0-0.5'		"	1138	"	"				"		"		"	"	"													"	
S-27 0-0.5'		"	1140	"	"				"		"		"	"	"													"	
S-23 0.5'		"	1130																										
TOTAL																													

Loc: 880
19309

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	9/16/22 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 8/1.0 THERM# IR8.20
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-19309-1
SDG Number: 22-0104-08

Login Number: 19309
List Number: 1
Creator: Rodriguez, Leticia

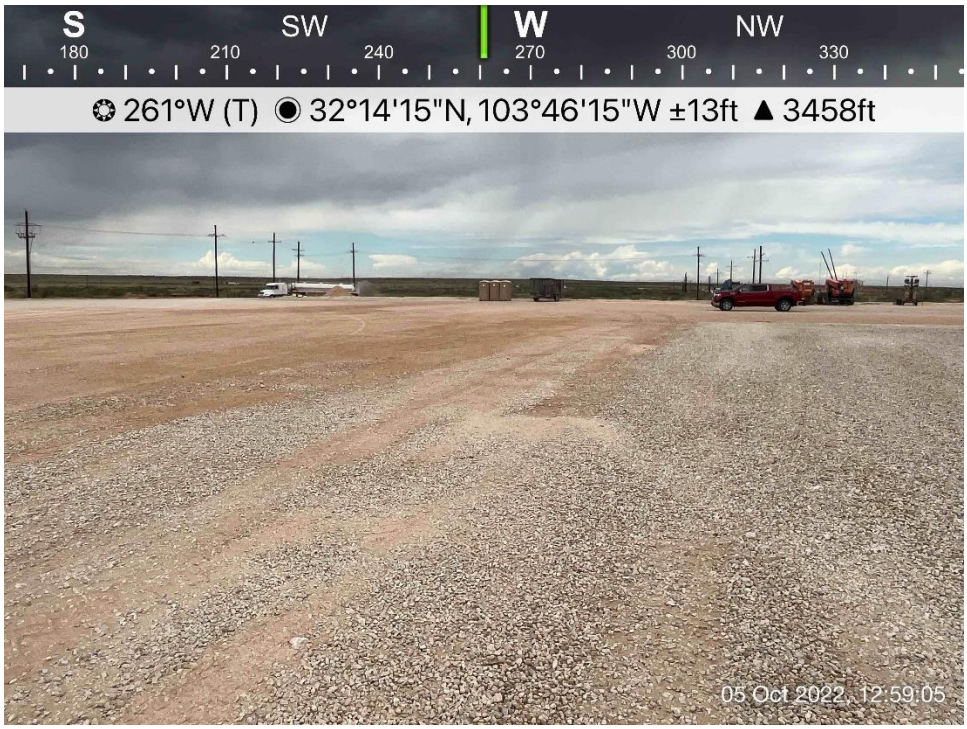
List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

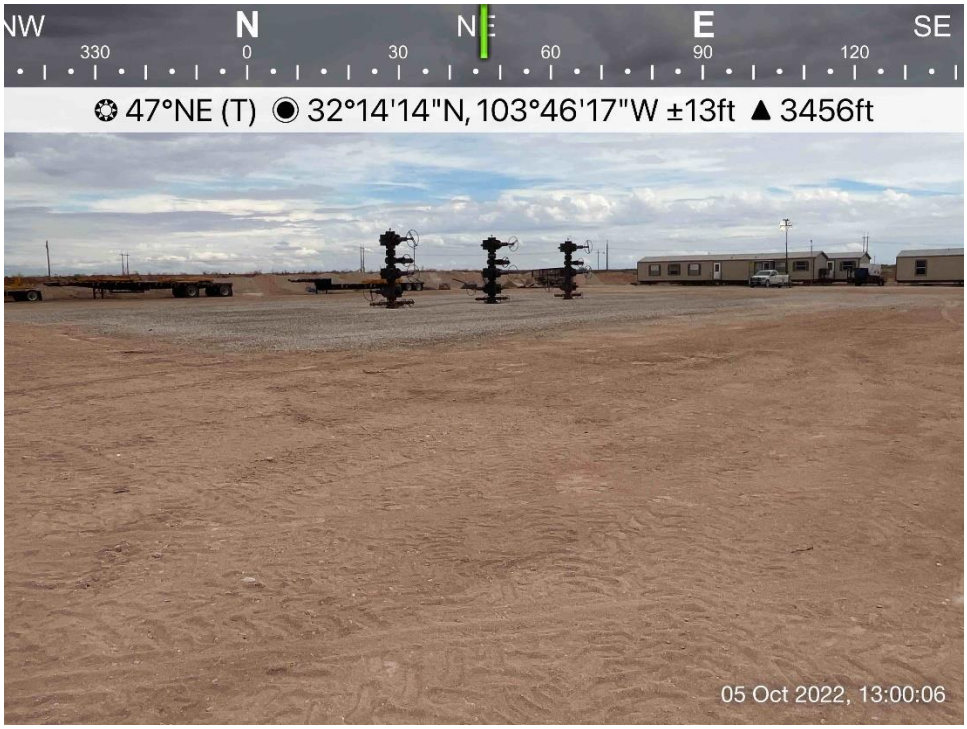
Appendix F

Photographs

Impacted area viewing northwest, October 5, 2022

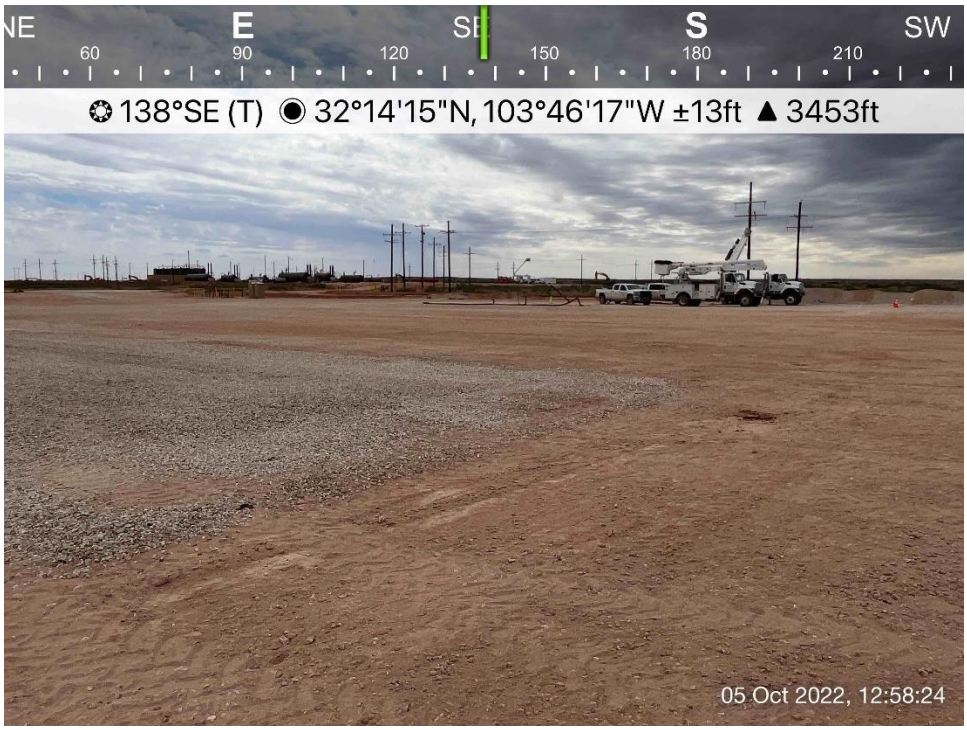


Impacted area viewing west, October 5, 2022



Impacted area viewing southwest, October 5, 2022

Impacted area viewing east, October 5, 2022



Impacted area viewing southeast, October 5, 2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2226254935
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: Amy Barnhill_____ Title: Environmental Advisor_____

Signature: _____ Date: 5-1-23 _____

email: ABarnhill@chevron.com_____ Telephone: 432-687-7108_____

OCD Only

Received by: Jocelyn Harimon Date: 05/01/2023

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

Signature: Robert Hamlet Date: 9/13/2023

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

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 212183
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Please collect confirmation samples, representing no more than 200 ft2. The work will need to occur in 90 days after the report has been reviewed.	9/13/2023