

Incident ID	nAPP2225936815
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

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

Printed Name: Halie ButlerTitle: Sr. Corp ENV ManagerSignature: Date: 4/17/23email: hbutler@selectenergyservices.comTelephone: 281-467-3153**OCD Only**Received by: Jocelyn HarimonDate: 04/18/2023

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Remediation Plan

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

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

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

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

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

Printed Name: Halie ButlerTitle: Sr. Corp ENV ManagerSignature: Date: 4/17/23email: hbutler@selectenergyservices.comTelephone: 281-467-3153**OCD Only**Received by: Jocelyn Harimon Date: 04/18/2023☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Tracking Number: nAPP2225936815
Delineation Report and Remediation Plan
Sand Dunes Pad 34
Produced Water Release
Eddy County, New Mexico

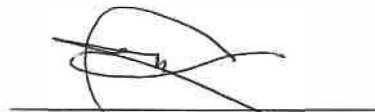
Latitude: N 32.23730°
Longitude: W -103.77041°

LAI Project No. 22-0104-08

April 3, 2023

Prepared for:
Select Energy Services, LLC
PO Box 1715
Gainesville, TX 76241

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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Tracking Number: nAPP2225936815
Delineation Report and Remediation Plan
Select Energy Services, LLC, Sand Dunes Pad 34
Produced Water Release
April 3, 2023

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Select Energy Services, LLC. (Select) for submittal to the New Mexico Oil Conservation Division (NMOCD) District 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 County New Mexico. The geodetic position is North 32.23730° and West -103.77041°. Figure 1 presents a topographic map of the area. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on September 5, 2022, at approximately 08:00AM, and occurred due to a Layflat line head fitting or clamp failure resulting in 80.57 barrels (bbls) of produced water to be released, with 40 bbls recovered.

On September 16, 2022, Select submitted the initial C-141 to the NMOCD District I and was assigned the incident number nAPP2225936815. Appendix A presents Select initial C-141 and spill calculations.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,448 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 geology is Quaternary age eolian sand and silt, and locally includes cover sand.
- 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.

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2.0 DELINEATION

On September 15, 2022, LAI personnel used a stainless-steel hand auger to collect soil samples from twenty-four (24) locations inside of the spill area (S-1 through S-24) and in each cardinal direction (north, south, east, and west) of the spill (S-25 through S-27). 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.

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

Sample ID	Depth (Feet)	Chloride (mg/Kg)	Sample ID	Depth (Feet)	Chloride (mg/Kg)
S-1	0	8,240	S-12	0	5,860
	.5	3,560		.5	630
S-2	0	10,900	S-13	0	25,900
	.5	800		.5	6,700
S-3	0	43,600	S-14	0	19,200
	.5	3,560	S-15	0	22,200
S-4	0	15,700	S-16	0	20,700
	.5	3,420	S-17	0	34,600
S-5	0	22,100		.5	3,320
	.5	4,600	S-18	0	29,700
S-6	0	30,600		.5	7,500
	.5	4,460	S-19	0	9,010
S-7	0	16,000		.5	896

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	.5	4,220	S-20	0	13,000
S-8	0	6,020	S-21	0	21,200
S-9	0	27,000	S-22	0	26,600
	.5	2,330	S-23	0	22,500
S-10	0	41,800	S-24	0	20,800
	.5	7,440		.5	1,380
S-11	0	23,600			
	.5	3,400			

On December 6, 2022, LAI personnel used a Geoprobe® 7822DT direct push rig to further delineate sample locations S-1 through S-13 and S-17 to S-19. The samples were collected at one (1), three (3), five (5), and ten (10) feet bgs, depending on subsurface conditions. intervals on samples. 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. Figure 2 presents an aerial map showing the sample locations.

Due to the location of the release adjacent to the Chevron USA (Chevron) release at the Site (nAPP22265254935), the west horizontal delineation sample (S-11) was used to complete the horizontal delineation at the Site. Appendix D presents the laboratory reports. Appendix E presents Laboratory reports for Chevron's Pad 34 spill nAPP2226254935. Appendix F presents the photographic documentation.

3.0 REMEDIATION PLAN

Select proposes the following remedial actions:

- Excavate soil from an area measuring approximately 11,885 square feet encompassing S-14, S-15, S-16, S-20, S-21, S-22 and S-23 to a depth of 0.5 feet bgs.
- Excavate soil from an area measuring approximately 9,454 square feet encompassing S-2, S-5, S-6, S-8, S-9, S-11, and S-13 to a depth of one (1) foot bgs.
- Excavate soil from an area measuring approximately 4,867 square feet encompassing S-10, S-17, and S-24 to a depth of two (2) feet bgs.
- Excavate soil from an area measuring approximately 706 square feet encompassing S-18 to a depth of three (3) feet bgs.
- Excavate soil from an area measuring approximately 12,070 square feet encompassing S-1, S-3, S-4, S-7, S-12, S-19, and S-21 at a depth of 4.1 feet bgs.

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- Collect five (5) point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH and chloride.
- Backfill excavation with clean topsoil within the pasture and caliche on the pad assuming achievement of NMOCD remediation levels.
- The backfilled excavation area in the pasture will be seeded with BLM Mix #2.
- Prepare report with photographs for submittal to NMOCD District 1 in Hobbs and Santa Fe, New Mexico.

Figure 4 present the proposed excavation areas.

Tables

Table 1
Soil Sample Analytical Data Summary
Select Energy - Sand Dunes Pad 34
Eddy County, New Mexico
32° 14' 14.54" North, 103° 46' 13.69" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/20,000
S-1	0	9/15/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	8,240
	0.5	9/15/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	3,560
	1	12/6/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	469
	3	12/6/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	5,840
	5	12/6/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	4,080
	10	12/6/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	26.3
S-2	0	9/15/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	10,900
	0.5	9/15/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	800
	1	12/6/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	283
	3	12/6/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	22.5
	5	12/6/2022	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	12.3
	10	12/6/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.8	<49.8	14.8
S-3	0	9/15/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	43,600
	0.5	9/15/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	3,560
	1	12/6/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	2,980
	3	12/6/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	2,750
	5	12/6/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	22.2
	9	12/6/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	14.4
S-4	0	9/15/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	15,700
	0.5	9/15/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	3,420
	1	12/6/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	61.7
	3	12/6/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,010

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Eddy County, New Mexico
32° 14' 14.54" North, 103° 46' 13.69" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/20,000
	5	12/6/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	5,400
	9	12/6/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	34.4
S-5	0	9/15/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	22,100
	0.5	9/15/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	4,600
	1	12/6/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	44.5
	3	12/6/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	102
	5	12/6/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	125
	10	12/6/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	0.601
S-6	0	9/15/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	30,600
	0.5	9/15/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	4,460
	1	12/6/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	28.5
	3	12/6/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	330
	5	12/6/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	236
	9	12/6/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	35.5
S-7	0	9/15/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	16,000
	0.5	9/15/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	4,220
	1	12/6/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	3,340
	3	12/6/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,250
	5	12/6/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	108
	9	12/6/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	116
S-8	0	9/15/2022	In-Situ	<0.00199	<0.00398	<50.0	1,060	<50.0	1,060	6,020

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Remediation Level:				10	50	100/2,500			600/20,000	
	0.5	9/15/2022	In-Situ	<0.00201	<0.00402	<50.0	62.7	<50.0	62.7	432
S-9	0	9/15/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	27,000
	0.5	9/15/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	2,330
	1	12/6/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	70.5
	3	12/6/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	72.7
	5	12/6/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	34.3
	9	12/6/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	196
S-10	0	9/15/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	41,800
	0.5	9/15/2022	In-Situ	<0.00201	<0.00402	<49.9	387	<49.9	387	7,440
	1	12/6/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	1,870
	3	12/6/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	51.8
	5	12/6/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	64.5
	8	12/6/2022	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	45.4
S-11	0	9/15/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	23,600
	0.5	9/15/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	3,400
	1	12/6/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	45.2
	3	12/6/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	65.8
	5	12/6/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	108
	9	12/6/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	35.8
S-12	0	9/15/2022	In-Situ	<0.00200	<0.00399	<50.0	158	<50.0	158	5,860
	0.5	9/15/2022	In-Situ	<0.00199	<0.00398	<49.9	286	<49.9	286	630

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Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500			600/20,000	
	1	12/5/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	6,270
	3	12/5/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	612
	5	12/5/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	863
	8	12/5/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	18.9
S-13	0	9/15/2022	In-Situ	<0.00199	<0.00398	<50.0	244	<50.0	244	25,900
	0.5	9/15/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	6,700
	1	12/6/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	51.9
	3	12/6/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	35.0
	5	12/6/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	21.3
	10	12/6/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	15.9
S-14	0	9/15/2022	In-Situ	<0.00200	<0.00401	<49.9	1,950	<49.9	1,950	19,200
	0.5	9/15/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	348
S-15	0	9/15/2022	In-Situ	<0.00198	<0.00396	<49.9	942	<49.9	942	22,200
	0.5	9/15/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	256
S-16	0	9/15/2022	In-Situ	<0.00200	<0.00401	<50.0	1,300	<50.0	1,300	20,700
	0.5	9/15/2022	In-Situ	<0.00200	<0.00399	<49.9	57.4	<49.9	57.4	431
S-17	0	9/15/2022	In-Situ	<0.00199	<0.00398	<50.0	1,060	<50.0	1,060	34,600
	0.5	9/15/2022	In-Situ	<0.00199	<0.00398	<50.0	67.3	<50.0	67.3	3,320
	1	12/5/2022	In-Situ	<0.00200	<0.00399	<49.9	246	<49.9	246	1,530
	3	12/5/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	27.9

Table 1
Soil Sample Analytical Data Summary
Select Energy - Sand Dunes Pad 34
Eddy County, New Mexico
32° 14' 14.54" North, 103° 46' 13.69" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500			600/20,000	
	5	12/5/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	23.6
	10	12/5/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	18.6
S-18	0	9/15/2022	In-Situ	<0.00200	<0.00401	<50.0	726	<50.0	726	29,700
	0.5	9/15/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	7,500
	1	12/5/2022	In-Situ	<0.00198	<0.00396	<50.0	414	<50.0	414	4,440
	3	12/5/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	251
	5	12/5/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	50.9
	10	12/5/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	42.2
S-19	0	9/15/2022	In-Situ	<0.00199	<0.00398	<50.0	209	<50.0	209	9,010
	0.5	9/15/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	896
	1	12/5/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	378
	3	12/5/2022	In-Situ	<0.00201	<0.00402	<50.0	113	<50.0	113	465
	5	12/5/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	15.3
	10	12/5/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	47.4
S-20	0	9/15/2022	In-Situ	<0.00200	0.00324	<50.0	846	<50.0	846	13,000
	0.5	9/15/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	268
S-21	0	9/15/2022	In-Situ	<0.00199	<0.00398	<49.9	475	<49.9	475	21,200
	0.5	9/15/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	450
S-22	0	9/15/2022	In-Situ	<0.00199	<0.00398	<50.0	289	<50.0	289	26,600
	0.5	9/15/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	442

Table 1
Soil Sample Analytical Data Summary
Select Energy - Sand Dunes Pad 34
Eddy County, New Mexico
32° 14' 14.54" North, 103° 46' 13.69" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/20,000
S-23	0	9/15/2022	In-Situ	<0.00200	<0.00399	<50.0	626	<50.0	626	22,500
	0.5	9/15/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	205
S-24	0	9/15/2022	In-Situ	<0.00199	<0.00398	<50.0	60.9	<50.0	60.9	20,800
	0.5	9/15/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,380
	1	12/6/2022	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	1,230
	3	12/6/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	27.2
	5	12/6/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	68.0
	10	12/6/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	268
S-25	0 - 0.5	9/15/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	74.8
S-26	0 - 0.5	9/15/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	194
S-27	0 - 0.5	9/15/2022	In-Situ	0.00436	0.00436	<49.9	<49.9	<49.9	<49.9	10.7
S-28	0 - 0.5	12/16/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	14,000
	0.5 - 1	12/16/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	5,250
	1 - 1.5	12/16/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	700
	5	12/16/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	406

Notes : Analysis performed by Permian Basin Environmental Laboratories (PBEL) and Xenco Laboratories in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride)

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

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

Table 1
Soil Sample Analytical Data Summary
Select Energy - Sand Dunes Pad 34
Eddy County, New Mexico
32° 14' 14.54" North, 103° 46' 13.69" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100/2,500				600/20,000
S-11(Chevron)	1	12/7/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	104

Figures

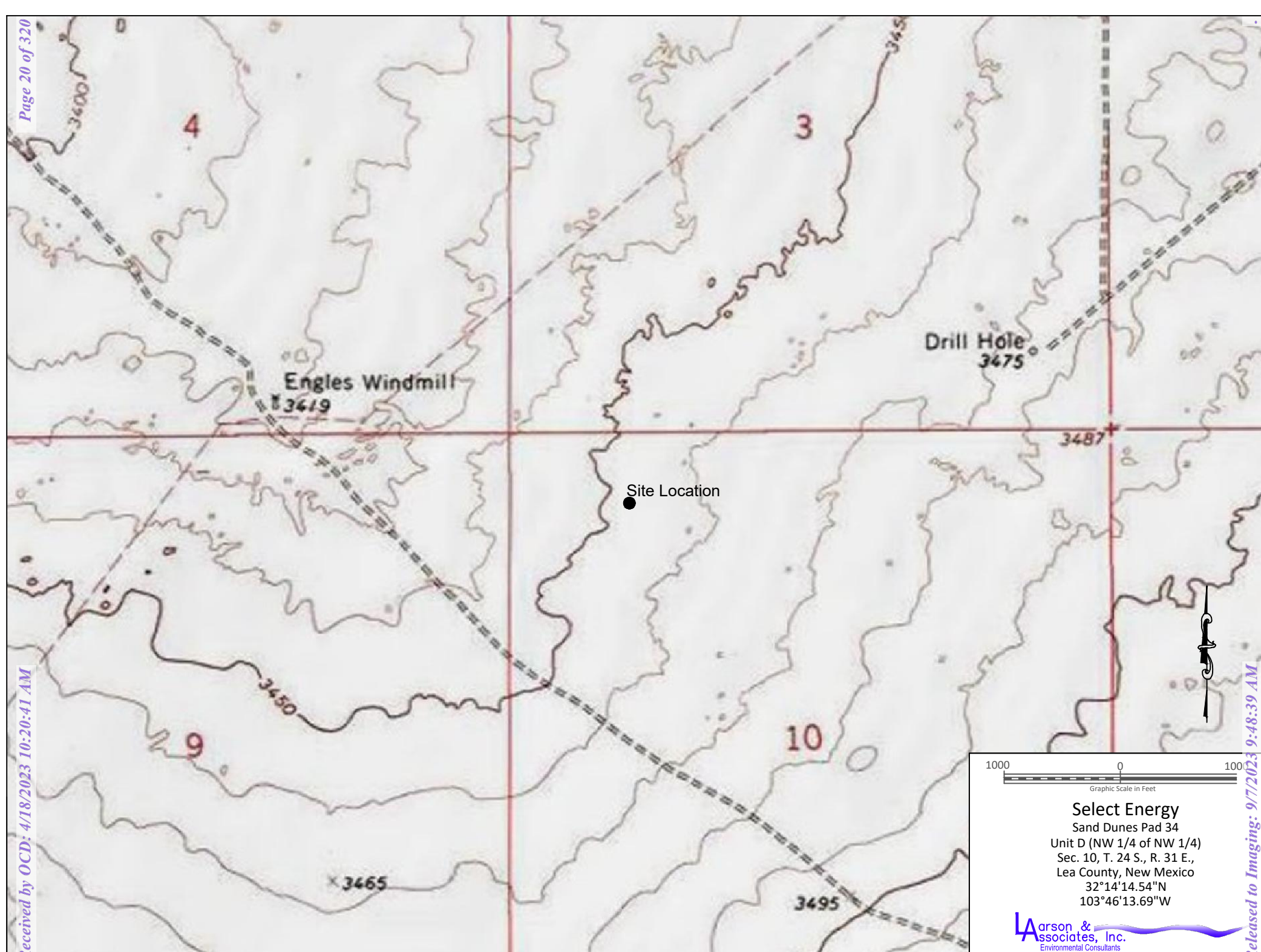
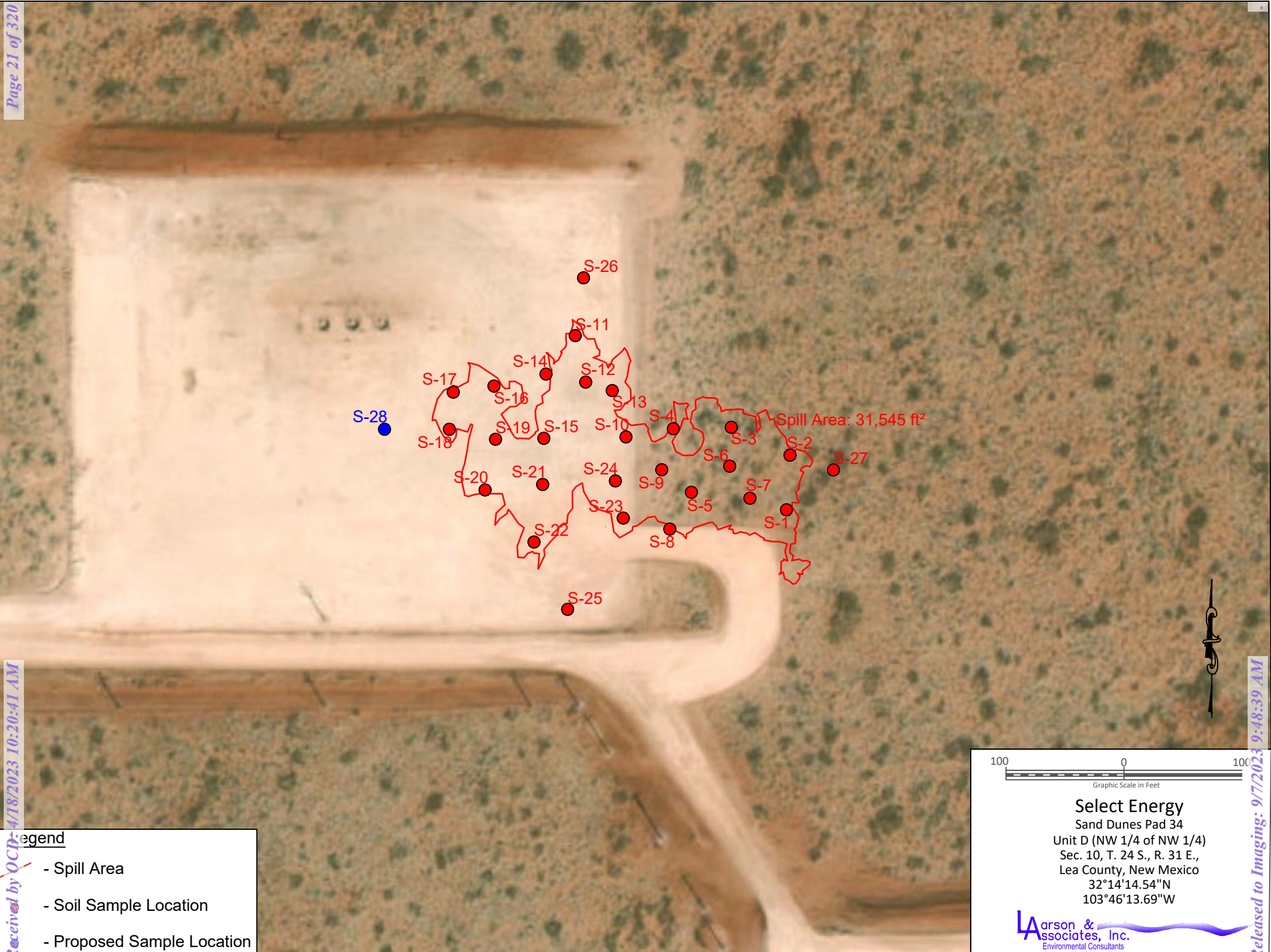


Figure 1 - Topographic Map



Legend

- Spill Area
- Soil Sample Location
- Proposed Sample Location

100 0 100
Graphic Scale in Feet

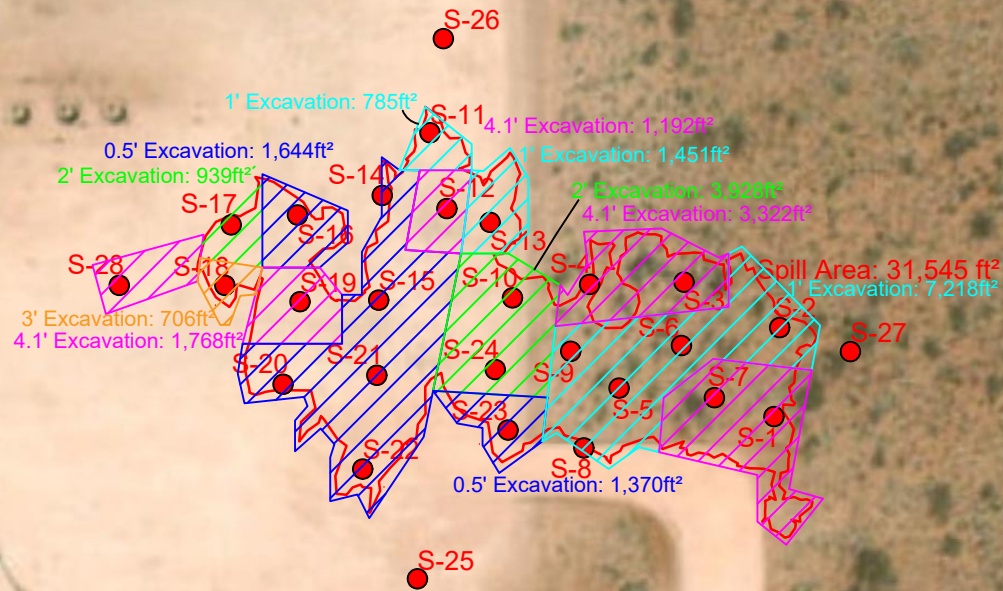
Select Energy
Sand Dunes Pad 34
Unit D (NW 1/4 of NW 1/4)
Sec. 10, T. 24 S., R. 31 E.,
Lea County, New Mexico
32°14'14.54"N
103°46'13.69"W

Larson & Associates, Inc.
Environmental Consultants

Figure 2 - Aerial Map



Figure 3 - Aerial Map Showing Bore Hole Location



Legend

- Spill Area
- Soil Sample Location
- Proposed Excavation: 0.5'
- Proposed Excavation: 1'
- Proposed Excavation: 2'
- Proposed Excavation: 3'
- Proposed Excavation: 4.1'



Select Energy
 Sand Dunes Pad 34
 Unit D (NW 1/4 of NW 1/4)
 Sec. 10, T. 24 S., R. 31 E.,
 Lea County, New Mexico
 32°14'14.54"N
 103°46'13.69"W

Larson & Associates, Inc.
 Environmental Consultants

Figure 4 - Aerial Map Showing Proposed Excavation Areas

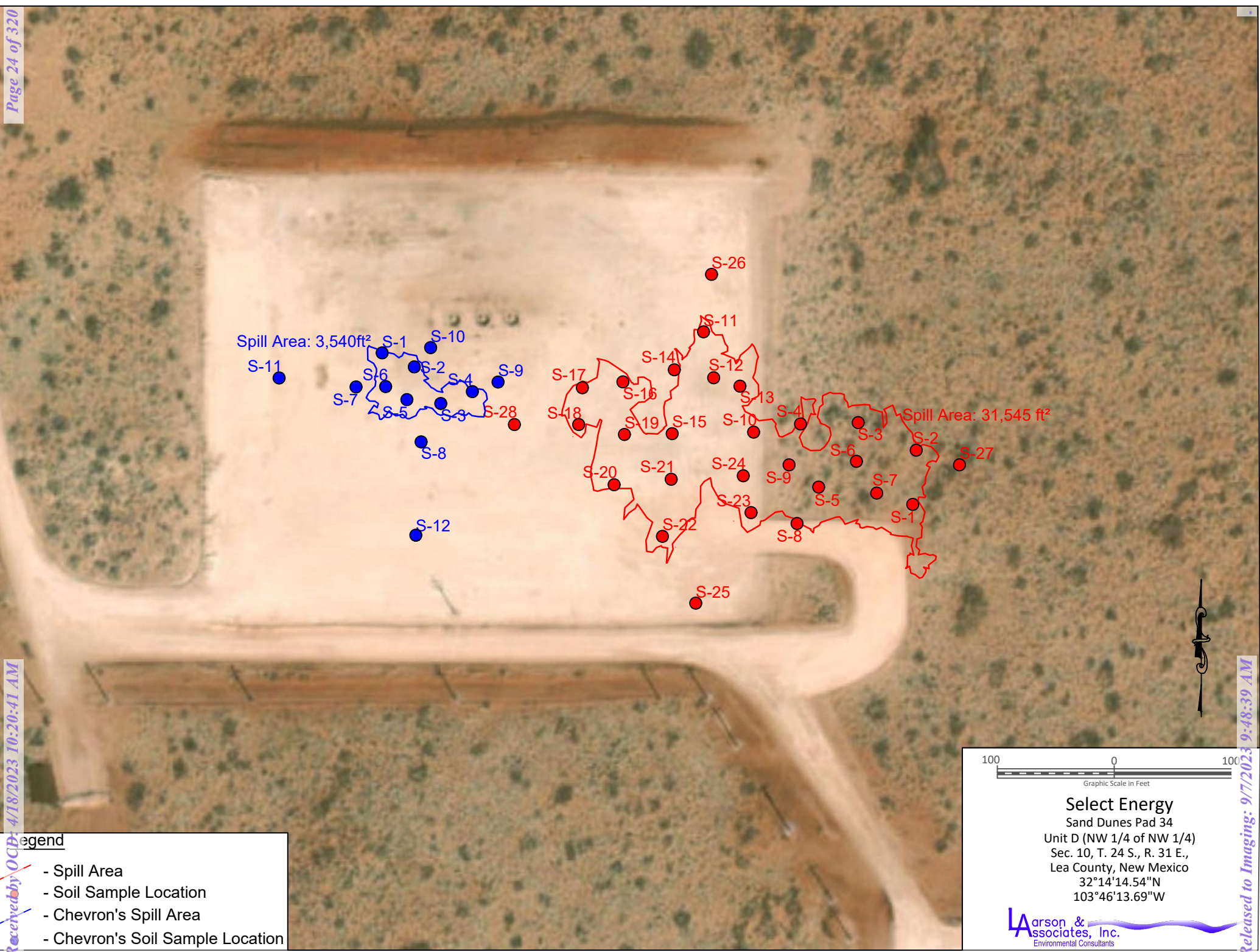


Figure 5 - Aerial Map Showing Chevron's Spill (nAPP2226254935) and Select Energy's Spill (nAPP2225936815)

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	NAPP2225936815
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Select Energy Services, LLC	OGRID: 289068
Contact Name: Halie Butler	Contact Telephone: 281-467-3153
Contact email: hbutler@selectenergyservices.com	Incident # (assigned by OCD)
Contact mailing address: PO Box 1715 Gainesville, TX 76241	

Location of Release Source

Latitude 32.23730 Longitude -103.77041
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Sand Dunes Pad 34	Site Type: Oil
Date Release Discovered: 9-5-2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	10	24S	31E	Lea

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls): 80.57	Volume Recovered (bbls): 40
	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: Layflat head (fitting or clamp) blew apart near location..

Incident ID	NAPP2225936815
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? Release greater than 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Select Energy Services assumed responsibility of the release on 9-13-22 and Halie Bulter emailed Mike Bratcher on 9-13-2022.	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Halie Butler</u>	Title: <u>Sr. Corp ENV Manager</u>
Signature: <u></u>	Date: <u>9/16/22</u>
email: <u>hbutler@selectenergyservices.com</u>	Telephone: <u>281-467-3153</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>09/16/2022</u>

Received by OCD: 4/18/2023 10:20:41 AM

Area	Shape	Length in feet	Width in feet	Diameter (for circular)	Standing Depth in inches	Depth in Soil in inches	Standing Volume	In Soil Volume	Total Volume
1	Rectangle	1000.00	11.70		0.250	1.000	43.41	26.05	69.46
2	Rectangle	1000.00	13.30		0.000	0.375	0.00	11.10	11.10
3									
4									
5									
6									
7									
8									
9									
10									
Total Volume BBLS								80.57	

Area	Shape	Length in feet	Width in feet	Diameter (for circular)	Standing Depth in inches	Depth in Soil in inches	Standing Volume	In Soil Volume	Total Volume
1	Rectangle	1000.00	11.70		0.250	1.000	43.41	26.05	69.46
2	Rectangle	1000.00	13.30		0.000	0.375	0.00	11.10	11.10
3									
4									
5									
6									
7									
8									
9									
10									
Total Volume BBLS								80.57	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 144083

CONDITIONS

Operator: SELECT ENERGY SERVICES, LLC PO Box 1715 Gainesville, TX 76240	OGRID: 289068
	Action Number: 144083
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	9/16/2022

Appendix B
Karst Risk Potential Map

Sand Dunes Pad 34

Low

Appendix C

Boring Log

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: Finish: DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE			REMARKS	
					PPM X _____										NUMBER	PID READING	RECOVERY	DEPTH	BACKGROUND PID READING
					2	4	6	8	10	12	14	16	18						
	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	SM																
	20																		
	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																		

☐ ONE CONTINUOUS AUGER SAMPLER

 WATER TABLE (TIME OF BORING)

☐ STANDARD PENETRATION TEST

 LABORATORY TEST LOCATION

☐ UNDISTURBED SAMPLE

 PENETROMETER (TONS/ SQ. FT)

 WATER TABLE (24 HRS)

 NO RECOVERY

 JOB NUMBER : Sand Dunes Pad 34 - 22-0104-08
 22-0105-14

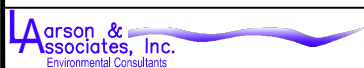
HOLE DIAMETER : 5"

LOCATION : 32°14'15.24"N, 103°46'17.08"W

LAI GEOLOGIST : D. St. Germain

DRILLING CONTRACTOR : SDI

DRILLING METHOD : Air Rotary


 Larson & Associates, Inc.
 Environmental Consultants

DRILL DATE :

03/14/2023

BORING NUMBER :

BH-1

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: Finish: DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING										SAMPLE		REMARKS		
					PPM X _____										NUMBER	PID READING	RECOVERY	DEPTH	BACKGROUND PID READING
					2	4	6	8	10	12	14	16	18						
	65																		
	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)

☐ LABORATORY TEST LOCATION

☐ PENETROMETER (TONS/ SQ. FT)

☐ NR NO RECOVERY

 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

 Larson &
Associates, Inc.
Environmental Consultants

DRILL DATE :

03/14/2023

BORING NUMBER :

BH-1

Appendix D
Laboratory Reports



Environment Testing

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- 12
- 13
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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/21/2022 1:18:52 PM

JOB DESCRIPTION

Sand Dunes Pad 34
SDG NUMBER 22-0104-08

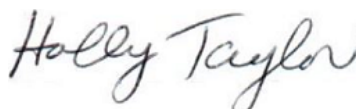
JOB NUMBER

880-22438-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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
12/21/2022 1:18:52 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: 880-22438-1
SDG: 22-0104-08

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Definitions/Glossary

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

Job ID: 880-22438-1
SDG: 22-0104-08

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

Eurofins Midland

Case Narrative

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

Job ID: 880-22438-1
SDG: 22-0104-08

Job ID: 880-22438-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-22438-1

Receipt

The samples were received on 12/7/2022 1:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S1 1' (880-22438-1), S1 3' (880-22438-2), S1 5' (880-22438-3), S1 10' (880-22438-4), S2 1' (880-22438-5), S2 3' (880-22438-6), S2 5' (880-22438-7), S2 10' (880-22438-8), S3 1' (880-22438-9), S3 3' (880-22438-10), S3 5' (880-22438-11), S3 9' (880-22438-12), S4 1' (880-22438-13), S4 3' (880-22438-14), S4 5' (880-22438-15), S4 9' (880-22438-16), S5 1' (880-22438-17), S5 3' (880-22438-18), S5 5' (880-22438-19), S5 10' (880-22438-20), S6 1' (880-22438-21), S6 3' (880-22438-22), S6 5' (880-22438-23), S6 9' (880-22438-24), S7 1' (880-22438-25), S7 3' (880-22438-26), S7 5' (880-22438-27), S7 9' (880-22438-28), S9 1' (880-22438-29), S9 3' (880-22438-30), S9 5' (880-22438-31), S9 9' (880-22438-32), S10 1' (880-22438-33), S10 3' (880-22438-34), S10 5' (880-22438-35), S10 8' (880-22438-36), S11 1' (880-22438-37), S11 3' (880-22438-38), S11 5' (880-22438-39), S11 9' (880-22438-40), S13 1' (880-22438-41), S13 3' (880-22438-42), S13 5' (880-22438-43), S13 10' (880-22438-44), S-24 1' (880-22438-45), S-24 3' (880-22438-46), S-24 5' (880-22438-47), S-24 10' (880-22438-48), S-17 1' (880-22438-49), S-17 3' (880-22438-50), S-17 5' (880-22438-51), S-17 10' (880-22438-52), S-18 1' (880-22438-53), S-18 3' (880-22438-54), S-18 5' (880-22438-55), S-18 10' (880-22438-56), S-19 1' (880-22438-57), S-19 3' (880-22438-58), S-19 5' (880-22438-59), S-19 10' (880-22438-60), S-12 1' (880-22438-61), S-12 3' (880-22438-62), S-12 5' (880-22438-63) and S-12 8' (880-22438-64).

GC VOA

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

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-41922 and analytical batch 880-41994 was outside the control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-42018 and analytical batch 880-41993 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 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-42019 and analytical batch 880-42181 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 8021B: Surrogate recovery for the following sample was outside control limits: S10 5' (880-22438-35). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-12 3' (880-22438-62). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-12 8' (880-22438-64). 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 880-41387 and 880-41576 and analytical

Case Narrative

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

Job ID: 880-22438-1
SDG: 22-0104-08

Job ID: 880-22438-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

batch 880-41557 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-41557/20), (CCV 880-41557/31), (CCV 880-41557/47), (CCV 880-41557/5), (CCV 880-41557/58), (LCS 880-41387/2-A), (LCS 880-41576/2-A), (LCSD 880-41387/3-A) and (LCSD 880-41576/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S1 1' (880-22438-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S2 10' (880-22438-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-22438-A-41-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-19 3' (880-22438-58). 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 880-41387 and analytical batch 880-41557 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41492 and analytical batch 880-41559 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-41492/2-A) and (LCSD 880-41492/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S6 5' (880-22438-23), S7 3' (880-22438-26) and S7 5' (880-22438-27). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-41368 and analytical batch 880-41858 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 880-41369 and analytical batch 880-41859 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: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-41371 and analytical batch 880-41860. The associated laboratory control sample (LCS) met acceptance criteria.

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: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S1 1'

Lab Sample ID: 880-22438-1

Date Collected: 12/06/22 13:20

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/18/22 19:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 19:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 19:04	1
m,p-Xylenes	<0.00401	U F2 F1	0.00401	mg/Kg		12/16/22 10:55	12/18/22 19:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 19:04	1
Xylenes, Total	<0.00401	U F2 F1	0.00401	mg/Kg		12/16/22 10:55	12/18/22 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/16/22 10:55	12/18/22 19:04	1
1,4-Difluorobenzene (Surr)	92		70 - 130	12/16/22 10:55	12/18/22 19:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	50.0	mg/Kg		12/08/22 15:27	12/12/22 10:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 10:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	136	S1+	70 - 130	12/08/22 15:27	12/12/22 10:54	1
o-Terphenyl (Surr)	127		70 - 130	12/08/22 15:27	12/12/22 10:54	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	469	F1	5.03	mg/Kg			12/14/22 20:12	1

Client Sample ID: S1 3'

Lab Sample ID: 880-22438-2

Date Collected: 12/06/22 13:21

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/18/22 19:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 19:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 19:25	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/16/22 10:55	12/18/22 19:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 19:25	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/16/22 10:55	12/18/22 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	12/16/22 10:55	12/18/22 19:25	1
1,4-Difluorobenzene (Surr)	98		70 - 130	12/16/22 10:55	12/18/22 19:25	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S1 3'

Lab Sample ID: 880-22438-2

Date Collected: 12/06/22 13:21

Matrix: Solid

Date Received: 12/07/22 13:25

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			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 12:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 12:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 12:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			12/08/22 15:27	12/12/22 12:00	1
o-Terphenyl (Surr)	102		70 - 130			12/08/22 15:27	12/12/22 12:00	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5840		49.7	mg/Kg			12/14/22 20:32	10

Client Sample ID: S1 5'

Lab Sample ID: 880-22438-3

Date Collected: 12/06/22 13:22

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/18/22 19:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/18/22 19:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/18/22 19:46	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/18/22 19:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/18/22 19:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/18/22 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			12/16/22 10:55	12/18/22 19:46	1
1,4-Difluorobenzene (Surr)	105		70 - 130			12/16/22 10:55	12/18/22 19:46	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 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 12:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 12:22	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S1 5'

Lab Sample ID: 880-22438-3

Date Collected: 12/06/22 13:22

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 12:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	126		70 - 130			12/08/22 15:27	12/12/22 12:22	1
o-Terphenyl (Surr)	120		70 - 130			12/08/22 15:27	12/12/22 12:22	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4080		24.9	mg/Kg			12/14/22 20:39	5

Client Sample ID: S1 10'

Lab Sample ID: 880-22438-4

Date Collected: 12/06/22 13:30

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/18/22 20:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/18/22 20:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/18/22 20:07	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/18/22 20:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/18/22 20:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/18/22 20:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			12/16/22 10:55	12/18/22 20:07	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/16/22 10:55	12/18/22 20:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 12:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 12:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 12:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130			12/08/22 15:27	12/12/22 12:44	1
o-Terphenyl (Surr)	117		70 - 130			12/08/22 15:27	12/12/22 12:44	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.3		4.98	mg/Kg			12/14/22 20:45	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S2 1'

Lab Sample ID: 880-22438-5

Date Collected: 12/06/22 12:53

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/18/22 20:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 20:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 20:27	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/16/22 10:55	12/18/22 20:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 20:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/16/22 10:55	12/18/22 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/16/22 10:55	12/18/22 20:27	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/16/22 10:55	12/18/22 20:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 13:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 13:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130	12/08/22 15:27	12/12/22 13:06	1
o-Terphenyl (Surr)	114		70 - 130	12/08/22 15:27	12/12/22 13:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	283		4.98	mg/Kg			12/14/22 20:52	1

Client Sample ID: S2 3'

Lab Sample ID: 880-22438-6

Date Collected: 12/06/22 12:54

Matrix: Solid

Date Received: 12/07/22 13:25

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		12/16/22 10:55	12/18/22 20:48	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/16/22 10:55	12/18/22 20:48	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/16/22 10:55	12/18/22 20:48	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/16/22 10:55	12/18/22 20:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/16/22 10:55	12/18/22 20:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/16/22 10:55	12/18/22 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/16/22 10:55	12/18/22 20:48	1
1,4-Difluorobenzene (Surr)	98		70 - 130	12/16/22 10:55	12/18/22 20:48	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S2 3'

Lab Sample ID: 880-22438-6

Date Collected: 12/06/22 12:54

Matrix: Solid

Date Received: 12/07/22 13:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 13:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 13:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			12/08/22 15:27	12/12/22 13:28	1
o-Terphenyl (Surr)	102		70 - 130			12/08/22 15:27	12/12/22 13:28	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.5		4.96	mg/Kg			12/14/22 21:12	1

Client Sample ID: S2 5'

Lab Sample ID: 880-22438-7

Date Collected: 12/06/22 12:55

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/18/22 21:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 21:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 21:09	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/16/22 10:55	12/18/22 21:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 21:09	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/16/22 10:55	12/18/22 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			12/16/22 10:55	12/18/22 21:09	1
1,4-Difluorobenzene (Surr)	98		70 - 130			12/16/22 10:55	12/18/22 21:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/08/22 15:27	12/12/22 13:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/08/22 15:27	12/12/22 13:50	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S2 5'

Lab Sample ID: 880-22438-7

Date Collected: 12/06/22 12:55

Matrix: Solid

Date Received: 12/07/22 13:25

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		12/08/22 15:27	12/12/22 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			12/08/22 15:27	12/12/22 13:50	1
o-Terphenyl (Surr)	93		70 - 130			12/08/22 15:27	12/12/22 13:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.3		5.04	mg/Kg			12/14/22 21:18	1

Client Sample ID: S2 10'

Lab Sample ID: 880-22438-8

Date Collected: 12/06/22 13:05

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/18/22 21:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/18/22 21:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/18/22 21:29	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/18/22 21:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/18/22 21:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/18/22 21:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			12/16/22 10:55	12/18/22 21:29	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/16/22 10:55	12/18/22 21:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 14:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 14:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 14:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	136	S1+	70 - 130			12/08/22 15:27	12/12/22 14:11	1
o-Terphenyl (Surr)	125		70 - 130			12/08/22 15:27	12/12/22 14:11	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.8		5.03	mg/Kg			12/14/22 21:25	1

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Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S3 1'

Lab Sample ID: 880-22438-9

Date Collected: 12/06/22 12:20

Matrix: Solid

Date Received: 12/07/22 13:25

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		12/16/22 10:55	12/18/22 21:50	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/16/22 10:55	12/18/22 21:50	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/16/22 10:55	12/18/22 21:50	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		12/16/22 10:55	12/18/22 21:50	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/16/22 10:55	12/18/22 21:50	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/16/22 10:55	12/18/22 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	12/16/22 10:55	12/18/22 21:50	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/16/22 10:55	12/18/22 21:50	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			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 14:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 14:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	12/08/22 15:27	12/12/22 14:33	1
o-Terphenyl (Surr)	112		70 - 130	12/08/22 15:27	12/12/22 14:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2980		24.9	mg/Kg			12/14/22 21:32	5

Client Sample ID: S3 3'

Lab Sample ID: 880-22438-10

Date Collected: 12/06/22 12:21

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/18/22 22:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 22:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 22:11	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/16/22 10:55	12/18/22 22:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 22:11	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/16/22 10:55	12/18/22 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/16/22 10:55	12/18/22 22:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130	12/16/22 10:55	12/18/22 22:11	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S3 3'

Lab Sample ID: 880-22438-10

Date Collected: 12/06/22 12:21

Matrix: Solid

Date Received: 12/07/22 13:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 14:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 14:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 14:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			12/08/22 15:27	12/12/22 14:56	1
o-Terphenyl (Surr)	103		70 - 130			12/08/22 15:27	12/12/22 14:56	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2750		25.0	mg/Kg			12/14/22 21:38	5

Client Sample ID: S3 5'

Lab Sample ID: 880-22438-11

Date Collected: 12/06/22 12:22

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/18/22 23:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/18/22 23:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/18/22 23:35	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/18/22 23:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/18/22 23:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/18/22 23:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			12/16/22 10:55	12/18/22 23:35	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/16/22 10:55	12/18/22 23:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 15:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 15:40	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S3 5'

Lab Sample ID: 880-22438-11

Date Collected: 12/06/22 12:22

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 15:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130			12/08/22 15:27	12/12/22 15:40	1
o-Terphenyl (Surr)	112		70 - 130			12/08/22 15:27	12/12/22 15:40	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.2		4.98	mg/Kg			12/14/22 21:45	1

Client Sample ID: S3 9'

Lab Sample ID: 880-22438-12

Date Collected: 12/06/22 12:35

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/18/22 23:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 23:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 23:56	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/16/22 10:55	12/18/22 23:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 23:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/16/22 10:55	12/18/22 23:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			12/16/22 10:55	12/18/22 23:56	1
1,4-Difluorobenzene (Surr)	93		70 - 130			12/16/22 10:55	12/18/22 23:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 16:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 16:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 16:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130			12/08/22 15:27	12/12/22 16:02	1
o-Terphenyl (Surr)	113		70 - 130			12/08/22 15:27	12/12/22 16:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.4		4.97	mg/Kg			12/14/22 22:05	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S4 1'

Lab Sample ID: 880-22438-13

Date Collected: 12/06/22 10:50

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/19/22 00:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/19/22 00:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/19/22 00:16	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/19/22 00:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/19/22 00:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/19/22 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	12/16/22 10:55	12/19/22 00:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/16/22 10:55	12/19/22 00:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 16:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 16:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130	12/08/22 15:27	12/12/22 16:24	1
o-Terphenyl (Surr)	114		70 - 130	12/08/22 15:27	12/12/22 16:24	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.7		4.96	mg/Kg			12/14/22 22:11	1

Client Sample ID: S4 3'

Lab Sample ID: 880-22438-14

Date Collected: 12/06/22 10:51

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/19/22 00:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/19/22 00:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/19/22 00:37	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/19/22 00:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/19/22 00:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/19/22 00:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/16/22 10:55	12/19/22 00:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/16/22 10:55	12/19/22 00:37	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S4 3'

Lab Sample ID: 880-22438-14

Date Collected: 12/06/22 10:51

Matrix: Solid

Date Received: 12/07/22 13:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 16:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 16:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 16:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130			12/08/22 15:27	12/12/22 16:46	1
o-Terphenyl (Surr)	114		70 - 130			12/08/22 15:27	12/12/22 16:46	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		4.98	mg/Kg			12/14/22 22:31	1

Client Sample ID: S4 5'

Lab Sample ID: 880-22438-15

Date Collected: 12/06/22 10:52

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/19/22 00:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/19/22 00:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/19/22 00:58	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/16/22 10:55	12/19/22 00:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/19/22 00:58	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/16/22 10:55	12/19/22 00:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			12/16/22 10:55	12/19/22 00:58	1
1,4-Difluorobenzene (Surr)	98		70 - 130			12/16/22 10:55	12/19/22 00:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 17:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 17:08	1

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Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S4 5'

Lab Sample ID: 880-22438-15

Date Collected: 12/06/22 10:52

Matrix: Solid

Date Received: 12/07/22 13:25

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)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 17:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130			12/08/22 15:27	12/12/22 17:08	1
o-Terphenyl (Surr)	118		70 - 130			12/08/22 15:27	12/12/22 17:08	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5400		50.4	mg/Kg			12/14/22 22:38	10

Client Sample ID: S4 9'

Lab Sample ID: 880-22438-16

Date Collected: 12/06/22 10:53

Matrix: Solid

Date Received: 12/07/22 13:25

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		12/16/22 10:55	12/19/22 01:18	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/16/22 10:55	12/19/22 01:18	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/16/22 10:55	12/19/22 01:18	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/16/22 10:55	12/19/22 01:18	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/16/22 10:55	12/19/22 01:18	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/16/22 10:55	12/19/22 01:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			12/16/22 10:55	12/19/22 01:18	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/16/22 10:55	12/19/22 01:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 17:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 17:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 17:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			12/08/22 15:27	12/12/22 17:30	1
o-Terphenyl (Surr)	102		70 - 130			12/08/22 15:27	12/12/22 17:30	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.4		5.05	mg/Kg			12/14/22 22:45	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S5 1'

Lab Sample ID: 880-22438-17

Date Collected: 12/06/22 11:23

Matrix: Solid

Date Received: 12/07/22 13:25

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		12/16/22 10:55	12/19/22 01:39	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/16/22 10:55	12/19/22 01:39	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/16/22 10:55	12/19/22 01:39	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/16/22 10:55	12/19/22 01:39	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/16/22 10:55	12/19/22 01:39	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/16/22 10:55	12/19/22 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	12/16/22 10:55	12/19/22 01:39	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/16/22 10:55	12/19/22 01:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 17:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 17:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130	12/08/22 15:27	12/12/22 17:52	1
o-Terphenyl (Surr)	119		70 - 130	12/08/22 15:27	12/12/22 17:52	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.5		4.95	mg/Kg			12/14/22 22:51	1

Client Sample ID: S5 3'

Lab Sample ID: 880-22438-18

Date Collected: 12/06/22 11:24

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/19/22 01:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/19/22 01:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/19/22 01:59	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/19/22 01:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:55	12/19/22 01:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:55	12/19/22 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	12/16/22 10:55	12/19/22 01:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/16/22 10:55	12/19/22 01:59	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S5 3'

Lab Sample ID: 880-22438-18

Date Collected: 12/06/22 11:24

Matrix: Solid

Date Received: 12/07/22 13:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 18:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 18:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/22 15:27	12/12/22 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	130		70 - 130			12/08/22 15:27	12/12/22 18:14	1
o-Terphenyl (Surr)	123		70 - 130			12/08/22 15:27	12/12/22 18:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.99	mg/Kg			12/14/22 22:58	1

Client Sample ID: S5 5'

Lab Sample ID: 880-22438-19

Date Collected: 12/06/22 11:25

Matrix: Solid

Date Received: 12/07/22 13:25

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		12/16/22 10:55	12/19/22 02:20	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/16/22 10:55	12/19/22 02:20	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/16/22 10:55	12/19/22 02:20	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		12/16/22 10:55	12/19/22 02:20	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/16/22 10:55	12/19/22 02:20	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/16/22 10:55	12/19/22 02:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			12/16/22 10:55	12/19/22 02:20	1
1,4-Difluorobenzene (Surr)	97		70 - 130			12/16/22 10:55	12/19/22 02:20	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			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 18:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 18:36	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S5 5'

Lab Sample ID: 880-22438-19

Date Collected: 12/06/22 11:25

Matrix: Solid

Date Received: 12/07/22 13:25

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)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	128		70 - 130			12/08/22 15:27	12/12/22 18:36	1
o-Terphenyl (Surr)	123		70 - 130			12/08/22 15:27	12/12/22 18:36	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		4.97	mg/Kg			12/14/22 23:04	1

Client Sample ID: S5 10'

Lab Sample ID: 880-22438-20

Date Collected: 12/06/22 11:40

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:55	12/19/22 02:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/19/22 02:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/19/22 02:40	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/16/22 10:55	12/19/22 02:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/19/22 02:40	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/16/22 10:55	12/19/22 02:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			12/16/22 10:55	12/19/22 02:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/16/22 10:55	12/19/22 02:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/19/22 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 18:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 18:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130			12/08/22 15:27	12/12/22 18:57	1
o-Terphenyl (Surr)	119		70 - 130			12/08/22 15:27	12/12/22 18:57	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.601		0.0505	mg/Kg			12/14/22 23:11	1

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Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S6 1'

Lab Sample ID: 880-22438-21

Date Collected: 12/06/22 11:55

Matrix: Solid

Date Received: 12/07/22 13:25

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		12/16/22 10:59	12/20/22 03:36	1
Toluene	<0.00201	U F1 F2	0.00201	mg/Kg		12/16/22 10:59	12/20/22 03:36	1
Ethylbenzene	<0.00201	U F1	0.00201	mg/Kg		12/16/22 10:59	12/20/22 03:36	1
m,p-Xylenes	<0.00402	U F1 F2	0.00402	mg/Kg		12/16/22 10:59	12/20/22 03:36	1
o-Xylene	<0.00201	U F1	0.00201	mg/Kg		12/16/22 10:59	12/20/22 03:36	1
Xylenes, Total	<0.00402	U F1 F2	0.00402	mg/Kg		12/16/22 10:59	12/20/22 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/16/22 10:59	12/20/22 03:36	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/16/22 10:59	12/20/22 03:36	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			12/20/22 11:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 10:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 10:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	12/09/22 15:03	12/12/22 10:54	1
o-Terphenyl (Surr)	121		70 - 130	12/09/22 15:03	12/12/22 10:54	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.5	F1	5.00	mg/Kg			12/15/22 08:22	1

Client Sample ID: S6 3'

Lab Sample ID: 880-22438-22

Date Collected: 12/06/22 11:56

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 03:57	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 03:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 03:57	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 03:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 03:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/16/22 10:59	12/20/22 03:57	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/16/22 10:59	12/20/22 03:57	1

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Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S6 3'

Lab Sample ID: 880-22438-22

Date Collected: 12/06/22 11:56

Matrix: Solid

Date Received: 12/07/22 13:25

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			12/20/22 11:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 12:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 12:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 12:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			12/09/22 15:03	12/12/22 12:00	1
o-Terphenyl (Surr)	119		70 - 130			12/09/22 15:03	12/12/22 12:00	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		50.4	mg/Kg			12/15/22 08:44	10

Client Sample ID: S6 5'

Lab Sample ID: 880-22438-23

Date Collected: 12/06/22 11:57

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 04:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 04:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 04:17	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/16/22 10:59	12/20/22 04:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 04:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/16/22 10:59	12/20/22 04:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			12/16/22 10:59	12/20/22 04:17	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/16/22 10:59	12/20/22 04:17	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			12/20/22 11:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 12:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 12:22	1

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Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S6 5'

Lab Sample ID: 880-22438-23

Date Collected: 12/06/22 11:57

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 12:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	126		70 - 130			12/09/22 15:03	12/12/22 12:22	1
o-Terphenyl (Surr)	145	S1+	70 - 130			12/09/22 15:03	12/12/22 12:22	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		50.3	mg/Kg			12/15/22 08:51	10

Client Sample ID: S6 9'

Lab Sample ID: 880-22438-24

Date Collected: 12/06/22 12:10

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 04:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 04:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 04:38	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 04:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 04:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 04:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			12/16/22 10:59	12/20/22 04:38	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/16/22 10:59	12/20/22 04:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/20/22 11:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 12:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 12:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 12:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			12/09/22 15:03	12/12/22 12:44	1
o-Terphenyl (Surr)	112		70 - 130			12/09/22 15:03	12/12/22 12:44	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.5		5.05	mg/Kg			12/15/22 08:58	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S7 1'

Lab Sample ID: 880-22438-25

Date Collected: 12/06/22 13:45

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 04:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 04:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 04:59	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 04:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 04:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/16/22 10:59	12/20/22 04:59	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/16/22 10:59	12/20/22 04:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/20/22 11:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/13/22 10:27	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	<49.8	U	49.8	mg/Kg		12/09/22 15:03	12/12/22 13:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/09/22 15:03	12/12/22 13:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/09/22 15:03	12/12/22 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130	12/09/22 15:03	12/12/22 13:06	1
o-Terphenyl (Surr)	130		70 - 130	12/09/22 15:03	12/12/22 13:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3340		24.8	mg/Kg			12/15/22 09:05	5

Client Sample ID: S7 3'

Lab Sample ID: 880-22438-26

Date Collected: 12/06/22 13:46

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 05:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 05:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 05:19	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/16/22 10:59	12/20/22 05:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 05:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/16/22 10:59	12/20/22 05:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	12/16/22 10:59	12/20/22 05:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/16/22 10:59	12/20/22 05:19	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S7 3'

Lab Sample ID: 880-22438-26

Date Collected: 12/06/22 13:46

Matrix: Solid

Date Received: 12/07/22 13:25

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			12/20/22 11:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 13:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 13:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	127		70 - 130			12/09/22 15:03	12/12/22 13:28	1
o-Terphenyl (Surr)	140	S1+	70 - 130			12/09/22 15:03	12/12/22 13:28	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		25.2	mg/Kg			12/15/22 09:27	5

Client Sample ID: S7 5'

Lab Sample ID: 880-22438-27

Date Collected: 12/06/22 13:47

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 05:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 05:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 05:40	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/16/22 10:59	12/20/22 05:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 05:40	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/16/22 10:59	12/20/22 05:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			12/16/22 10:59	12/20/22 05:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/16/22 10:59	12/20/22 05:40	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			12/20/22 11:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 13:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 13:50	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S7 5'

Lab Sample ID: 880-22438-27

Date Collected: 12/06/22 13:47

Matrix: Solid

Date Received: 12/07/22 13:25

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)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130			12/09/22 15:03	12/12/22 13:50	1
o-Terphenyl (Surr)	132	S1+	70 - 130			12/09/22 15:03	12/12/22 13:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		5.01	mg/Kg			12/15/22 09:34	1

Client Sample ID: S7 9'

Lab Sample ID: 880-22438-28

Date Collected: 12/06/22 13:59

Matrix: Solid

Date Received: 12/07/22 13:25

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		12/16/22 10:59	12/20/22 06:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/16/22 10:59	12/20/22 06:00	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/16/22 10:59	12/20/22 06:00	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/16/22 10:59	12/20/22 06:00	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/16/22 10:59	12/20/22 06:00	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/16/22 10:59	12/20/22 06:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			12/16/22 10:59	12/20/22 06:00	1
1,4-Difluorobenzene (Surr)	97		70 - 130			12/16/22 10:59	12/20/22 06:00	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			12/20/22 11:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 14:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 14:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 14:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			12/09/22 15:03	12/12/22 14:11	1
o-Terphenyl (Surr)	109		70 - 130			12/09/22 15:03	12/12/22 14:11	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		5.00	mg/Kg			12/15/22 09:41	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S9 1'

Lab Sample ID: 880-22438-29

Date Collected: 12/06/22 10:15

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 06:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 06:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 06:21	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 06:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 06:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/16/22 10:59	12/20/22 06:21	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/16/22 10:59	12/20/22 06:21	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			12/20/22 11:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 14:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 14:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	12/09/22 15:03	12/12/22 14:33	1
o-Terphenyl (Surr)	124		70 - 130	12/09/22 15:03	12/12/22 14:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.5		4.96	mg/Kg			12/15/22 09:49	1

Client Sample ID: S9 3'

Lab Sample ID: 880-22438-30

Date Collected: 12/06/22 10:16

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 06:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 06:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 06:42	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 06:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 06:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 06:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/16/22 10:59	12/20/22 06:42	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/16/22 10:59	12/20/22 06:42	1

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Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S9 3'

Lab Sample ID: 880-22438-30

Date Collected: 12/06/22 10:16

Matrix: Solid

Date Received: 12/07/22 13:25

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			12/20/22 11:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 14:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 14:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 14:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130			12/09/22 15:03	12/12/22 14:56	1
o-Terphenyl (Surr)	111		70 - 130			12/09/22 15:03	12/12/22 14:56	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.7		4.96	mg/Kg			12/15/22 09:56	1

Client Sample ID: S9 5'

Lab Sample ID: 880-22438-31

Date Collected: 12/06/22 10:17

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 10:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 10:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 10:29	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/16/22 10:59	12/20/22 10:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 10:29	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/16/22 10:59	12/20/22 10:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			12/16/22 10:59	12/20/22 10:29	1
1,4-Difluorobenzene (Surr)	89		70 - 130			12/16/22 10:59	12/20/22 10:29	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			12/20/22 11:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 15:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 15:40	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S9 5'

Lab Sample ID: 880-22438-31

Date Collected: 12/06/22 10:17

Matrix: Solid

Date Received: 12/07/22 13:25

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)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 15:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			12/09/22 15:03	12/12/22 15:40	1
o-Terphenyl (Surr)	121		70 - 130			12/09/22 15:03	12/12/22 15:40	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.3		4.95	mg/Kg			12/15/22 10:03	1

Client Sample ID: S9 9'

Lab Sample ID: 880-22438-32

Date Collected: 12/06/22 10:30

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 10:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 10:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 10:50	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 10:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 10:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 10:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			12/16/22 10:59	12/20/22 10:50	1
1,4-Difluorobenzene (Surr)	98		70 - 130			12/16/22 10:59	12/20/22 10:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/20/22 12:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 16:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 16:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 16:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			12/09/22 15:03	12/12/22 16:02	1
o-Terphenyl (Surr)	121		70 - 130			12/09/22 15:03	12/12/22 16:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	196		5.05	mg/Kg			12/15/22 10:25	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S10 1'

Lab Sample ID: 880-22438-33

Date Collected: 12/06/22 09:40

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 11:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 11:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 11:10	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/16/22 10:59	12/20/22 11:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 11:10	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/16/22 10:59	12/20/22 11:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	12/16/22 10:59	12/20/22 11:10	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/16/22 10:59	12/20/22 11:10	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			12/20/22 12:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 16:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 16:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	12/09/22 15:03	12/12/22 16:24	1
o-Terphenyl (Surr)	109		70 - 130	12/09/22 15:03	12/12/22 16:24	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1870		25.2	mg/Kg			12/15/22 10:32	5

Client Sample ID: S10 3'

Lab Sample ID: 880-22438-34

Date Collected: 12/06/22 09:41

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 11:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 11:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 11:31	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/16/22 10:59	12/20/22 11:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 11:31	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/16/22 10:59	12/20/22 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	12/16/22 10:59	12/20/22 11:31	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/16/22 10:59	12/20/22 11:31	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S10 3'

Lab Sample ID: 880-22438-34

Date Collected: 12/06/22 09:41

Matrix: Solid

Date Received: 12/07/22 13:25

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			12/20/22 12:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 16:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 16:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 16:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			12/09/22 15:03	12/12/22 16:46	1
o-Terphenyl (Surr)	125		70 - 130			12/09/22 15:03	12/12/22 16:46	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.8		5.01	mg/Kg			12/15/22 10:54	1

Client Sample ID: S10 5'

Lab Sample ID: 880-22438-35

Date Collected: 12/06/22 09:42

Matrix: Solid

Date Received: 12/07/22 13:25

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		12/16/22 10:59	12/20/22 11:52	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/16/22 10:59	12/20/22 11:52	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/16/22 10:59	12/20/22 11:52	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		12/16/22 10:59	12/20/22 11:52	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/16/22 10:59	12/20/22 11:52	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/16/22 10:59	12/20/22 11:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			12/16/22 10:59	12/20/22 11:52	1
1,4-Difluorobenzene (Surr)	91		70 - 130			12/16/22 10:59	12/20/22 11:52	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			12/20/22 12:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 17:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 17:08	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S10 5'

Lab Sample ID: 880-22438-35

Date Collected: 12/06/22 09:42

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 17:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			12/09/22 15:03	12/12/22 17:08	1
o-Terphenyl (Surr)	121		70 - 130			12/09/22 15:03	12/12/22 17:08	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.5		5.01	mg/Kg			12/15/22 11:01	1

Client Sample ID: S10 8'

Lab Sample ID: 880-22438-36

Date Collected: 12/06/22 09:55

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 12:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 12:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 12:12	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/16/22 10:59	12/20/22 12:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 12:12	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/16/22 10:59	12/20/22 12:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			12/16/22 10:59	12/20/22 12:12	1
1,4-Difluorobenzene (Surr)	97		70 - 130			12/16/22 10:59	12/20/22 12:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/20/22 12:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/13/22 10:27	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	<49.8	U	49.8	mg/Kg		12/09/22 15:03	12/12/22 17:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/09/22 15:03	12/12/22 17:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/09/22 15:03	12/12/22 17:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			12/09/22 15:03	12/12/22 17:30	1
o-Terphenyl (Surr)	116		70 - 130			12/09/22 15:03	12/12/22 17:30	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.4		5.02	mg/Kg			12/15/22 11:08	1

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Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S11 1'

Lab Sample ID: 880-22438-37

Date Collected: 12/06/22 08:30

Matrix: Solid

Date Received: 12/07/22 13:25

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		12/16/22 10:59	12/20/22 12:33	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/16/22 10:59	12/20/22 12:33	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/16/22 10:59	12/20/22 12:33	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		12/16/22 10:59	12/20/22 12:33	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/16/22 10:59	12/20/22 12:33	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/16/22 10:59	12/20/22 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	12/16/22 10:59	12/20/22 12:33	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/16/22 10:59	12/20/22 12:33	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			12/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 17:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 17:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	12/09/22 15:03	12/12/22 17:52	1
o-Terphenyl (Surr)	123		70 - 130	12/09/22 15:03	12/12/22 17:52	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.2		5.00	mg/Kg			12/15/22 11:15	1

Client Sample ID: S11 3'

Lab Sample ID: 880-22438-38

Date Collected: 12/06/22 08:31

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 12:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 12:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 12:54	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 12:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 12:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/16/22 10:59	12/20/22 12:54	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/16/22 10:59	12/20/22 12:54	1

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Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S11 3'

Lab Sample ID: 880-22438-38

Date Collected: 12/06/22 08:31

Matrix: Solid

Date Received: 12/07/22 13:25

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			12/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 18:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 18:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			12/09/22 15:03	12/12/22 18:14	1
o-Terphenyl (Surr)	106		70 - 130			12/09/22 15:03	12/12/22 18:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.8		4.97	mg/Kg			12/15/22 11:23	1

Client Sample ID: S11 5'

Lab Sample ID: 880-22438-39

Date Collected: 12/06/22 08:32

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 13:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 13:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 13:14	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 13:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 10:59	12/20/22 13:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 10:59	12/20/22 13:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			12/16/22 10:59	12/20/22 13:14	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/16/22 10:59	12/20/22 13:14	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			12/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 18:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 18:36	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S11 5'

Lab Sample ID: 880-22438-39

Date Collected: 12/06/22 08:32

Matrix: Solid

Date Received: 12/07/22 13:25

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)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			12/09/22 15:03	12/12/22 18:36	1
o-Terphenyl (Surr)	109		70 - 130			12/09/22 15:03	12/12/22 18:36	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		4.99	mg/Kg			12/15/22 11:30	1

Client Sample ID: S11 9'

Lab Sample ID: 880-22438-40

Date Collected: 12/06/22 08:45

Matrix: Solid

Date Received: 12/07/22 13:25

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 10:59	12/20/22 13:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 13:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 13:35	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/16/22 10:59	12/20/22 13:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 13:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/16/22 10:59	12/20/22 13:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			12/16/22 10:59	12/20/22 13:35	1
1,4-Difluorobenzene (Surr)	94		70 - 130			12/16/22 10:59	12/20/22 13:35	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			12/20/22 14:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:27	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		12/09/22 15:03	12/12/22 18:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 18:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/09/22 15:03	12/12/22 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130			12/09/22 15:03	12/12/22 18:57	1
o-Terphenyl (Surr)	102		70 - 130			12/09/22 15:03	12/12/22 18:57	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.8		5.03	mg/Kg			12/15/22 11:37	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S13 1'

Lab Sample ID: 880-22438-41

Date Collected: 12/06/22 08:50

Matrix: Solid

Date Received: 12/07/22 13:25

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		12/16/22 11:07	12/20/22 21:19	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/16/22 11:07	12/20/22 21:19	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/16/22 11:07	12/20/22 21:19	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/16/22 11:07	12/20/22 21:19	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/16/22 11:07	12/20/22 21:19	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/16/22 11:07	12/20/22 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/16/22 11:07	12/20/22 21:19	1
1,4-Difluorobenzene (Surr)	85		70 - 130	12/16/22 11:07	12/20/22 21:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/21/22 12:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/12/22 20:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/12/22 20:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/12/22 20:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	12/12/22 09:34	12/12/22 20:47	1
o-Terphenyl (Surr)	109		70 - 130	12/12/22 09:34	12/12/22 20:47	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.9		5.05	mg/Kg			12/14/22 02:10	1

Client Sample ID: S13 3'

Lab Sample ID: 880-22438-42

Date Collected: 12/06/22 08:51

Matrix: Solid

Date Received: 12/07/22 13:25

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 11:07	12/20/22 21:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 11:07	12/20/22 21:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 11:07	12/20/22 21:40	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/16/22 11:07	12/20/22 21:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 11:07	12/20/22 21:40	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/16/22 11:07	12/20/22 21:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/16/22 11:07	12/20/22 21:40	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/16/22 11:07	12/20/22 21:40	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S13 3'

Lab Sample ID: 880-22438-42

Date Collected: 12/06/22 08:51

Matrix: Solid

Date Received: 12/07/22 13:25

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			12/21/22 12:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/12/22 21:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/12/22 21:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/12/22 21:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			12/12/22 09:34	12/12/22 21:53	1
o-Terphenyl (Surr)	109		70 - 130			12/12/22 09:34	12/12/22 21:53	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.0		4.97	mg/Kg			12/14/22 02:32	1

Client Sample ID: S13 5'

Lab Sample ID: 880-22438-43

Date Collected: 12/06/22 08:52

Matrix: Solid

Date Received: 12/07/22 13:25

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 11:07	12/20/22 22:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 11:07	12/20/22 22:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 11:07	12/20/22 22:01	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/16/22 11:07	12/20/22 22:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 11:07	12/20/22 22:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/16/22 11:07	12/20/22 22:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			12/16/22 11:07	12/20/22 22:01	1
1,4-Difluorobenzene (Surr)	103		70 - 130			12/16/22 11:07	12/20/22 22:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/21/22 12:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/12/22 22:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/12/22 22:15	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S13 5'

Lab Sample ID: 880-22438-43

Date Collected: 12/06/22 08:52

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/12/22 22:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130			12/12/22 09:34	12/12/22 22:15	1
o-Terphenyl (Surr)	108		70 - 130			12/12/22 09:34	12/12/22 22:15	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3		5.00	mg/Kg			12/14/22 02:40	1

Client Sample ID: S13 10'

Lab Sample ID: 880-22438-44

Date Collected: 12/06/22 09:00

Matrix: Solid

Date Received: 12/07/22 13:25

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 11:07	12/20/22 22:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 11:07	12/20/22 22:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 11:07	12/20/22 22:21	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 11:07	12/20/22 22:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 11:07	12/20/22 22:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 11:07	12/20/22 22:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			12/16/22 11:07	12/20/22 22:21	1
1,4-Difluorobenzene (Surr)	96		70 - 130			12/16/22 11:07	12/20/22 22:21	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			12/21/22 12:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/12/22 22:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/12/22 22:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/12/22 22:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			12/12/22 09:34	12/12/22 22:37	1
o-Terphenyl (Surr)	106		70 - 130			12/12/22 09:34	12/12/22 22:37	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.9		4.98	mg/Kg			12/14/22 02:47	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-24 1'

Lab Sample ID: 880-22438-45

Date Collected: 12/06/22 09:15

Matrix: Solid

Date Received: 12/07/22 13:25

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		12/16/22 11:07	12/20/22 22:42	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/16/22 11:07	12/20/22 22:42	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/16/22 11:07	12/20/22 22:42	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		12/16/22 11:07	12/20/22 22:42	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/16/22 11:07	12/20/22 22:42	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/16/22 11:07	12/20/22 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/16/22 11:07	12/20/22 22:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/16/22 11:07	12/20/22 22:42	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			12/21/22 12:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/12/22 22:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/12/22 22:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/12/22 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	12/12/22 09:34	12/12/22 22:59	1
o-Terphenyl (Surr)	103		70 - 130	12/12/22 09:34	12/12/22 22:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1230		4.96	mg/Kg			12/14/22 02:55	1

Client Sample ID: S-24 3'

Lab Sample ID: 880-22438-46

Date Collected: 12/06/22 09:16

Matrix: Solid

Date Received: 12/07/22 13:25

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 11:07	12/20/22 23:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 11:07	12/20/22 23:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 11:07	12/20/22 23:03	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 11:07	12/20/22 23:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 11:07	12/20/22 23:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 11:07	12/20/22 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/16/22 11:07	12/20/22 23:03	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/16/22 11:07	12/20/22 23:03	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-24 3'

Lab Sample ID: 880-22438-46

Date Collected: 12/06/22 09:16

Matrix: Solid

Date Received: 12/07/22 13:25

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			12/21/22 12:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/12/22 23:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/12/22 23:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/12/22 23:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130			12/12/22 09:34	12/12/22 23:21	1
o-Terphenyl (Surr)	106		70 - 130			12/12/22 09:34	12/12/22 23:21	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.2		4.95	mg/Kg			12/14/22 03:18	1

Client Sample ID: S-24 5'

Lab Sample ID: 880-22438-47

Date Collected: 12/06/22 09:17

Matrix: Solid

Date Received: 12/07/22 13:25

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 11:07	12/20/22 23:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 11:07	12/20/22 23:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 11:07	12/20/22 23:24	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/16/22 11:07	12/20/22 23:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 11:07	12/20/22 23:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/16/22 11:07	12/20/22 23:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			12/16/22 11:07	12/20/22 23:24	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/16/22 11:07	12/20/22 23:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/21/22 12:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/12/22 23:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/12/22 23:43	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-24 5'

Lab Sample ID: 880-22438-47

Date Collected: 12/06/22 09:17

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/12/22 23:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	129		70 - 130			12/12/22 09:34	12/12/22 23:43	1
o-Terphenyl (Surr)	121		70 - 130			12/12/22 09:34	12/12/22 23:43	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.0		5.01	mg/Kg			12/14/22 03:25	1

Client Sample ID: S-24 10'

Lab Sample ID: 880-22438-48

Date Collected: 12/06/22 09:30

Matrix: Solid

Date Received: 12/07/22 13:25

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 11:07	12/20/22 23:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 11:07	12/20/22 23:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 11:07	12/20/22 23:44	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/16/22 11:07	12/20/22 23:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 11:07	12/20/22 23:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 11:07	12/20/22 23:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			12/16/22 11:07	12/20/22 23:44	1
1,4-Difluorobenzene (Surr)	106		70 - 130			12/16/22 11:07	12/20/22 23:44	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			12/21/22 12:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 00:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 00:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 00:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130			12/12/22 09:34	12/13/22 00:04	1
o-Terphenyl (Surr)	121		70 - 130			12/12/22 09:34	12/13/22 00:04	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	268		5.04	mg/Kg			12/14/22 03:33	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-17 1'

Lab Sample ID: 880-22438-49

Date Collected: 12/05/22 14:00

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 08:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 08:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 08:59	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/15/22 13:33	12/17/22 08:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 08:59	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/15/22 13:33	12/17/22 08:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/15/22 13:33	12/17/22 08:59	1
1,4-Difluorobenzene (Surr)	111		70 - 130	12/15/22 13:33	12/17/22 08:59	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			12/19/22 17:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	246		49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 00:26	1
Diesel Range Organics (Over C10-C28)	246		49.9	mg/Kg		12/12/22 09:34	12/13/22 00:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	127		70 - 130	12/12/22 09:34	12/13/22 00:26	1
o-Terphenyl (Surr)	123		70 - 130	12/12/22 09:34	12/13/22 00:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1530		25.0	mg/Kg			12/14/22 03:40	5

Client Sample ID: S-17 3'

Lab Sample ID: 880-22438-50

Date Collected: 12/05/22 14:10

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 09:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 09:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 09:20	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/15/22 13:33	12/17/22 09:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 09:20	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/15/22 13:33	12/17/22 09:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	12/15/22 13:33	12/17/22 09:20	1
1,4-Difluorobenzene (Surr)	109		70 - 130	12/15/22 13:33	12/17/22 09:20	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-17 3'

Lab Sample ID: 880-22438-50

Date Collected: 12/05/22 14:10

Matrix: Solid

Date Received: 12/07/22 13:25

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	<49.9	U	49.9	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 00:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 00:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 00:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	129		70 - 130			12/12/22 09:34	12/13/22 00:48	1
o-Terphenyl (Surr)	122		70 - 130			12/12/22 09:34	12/13/22 00:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.9		5.03	mg/Kg			12/14/22 03:48	1

Client Sample ID: S-17 5'

Lab Sample ID: 880-22438-51

Date Collected: 12/05/22 14:20

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:33	12/17/22 09:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:33	12/17/22 09:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:33	12/17/22 09:40	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/15/22 13:33	12/17/22 09:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:33	12/17/22 09:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/15/22 13:33	12/17/22 09:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			12/15/22 13:33	12/17/22 09:40	1
1,4-Difluorobenzene (Surr)	110		70 - 130			12/15/22 13:33	12/17/22 09:40	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	<49.8	U	49.8	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/12/22 09:34	12/13/22 01:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/12/22 09:34	12/13/22 01:32	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-17 5'

Lab Sample ID: 880-22438-51

Date Collected: 12/05/22 14:20

Matrix: Solid

Date Received: 12/07/22 13:25

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		12/12/22 09:34	12/13/22 01:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130			12/12/22 09:34	12/13/22 01:32	1
o-Terphenyl (Surr)	99		70 - 130			12/12/22 09:34	12/13/22 01:32	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.6		5.04	mg/Kg			12/14/22 03:55	1

Client Sample ID: S-17 10'

Lab Sample ID: 880-22438-52

Date Collected: 12/05/22 14:30

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:33	12/17/22 10:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:33	12/17/22 10:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:33	12/17/22 10:01	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/15/22 13:33	12/17/22 10:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:33	12/17/22 10:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/15/22 13:33	12/17/22 10:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			12/15/22 13:33	12/17/22 10:01	1
1,4-Difluorobenzene (Surr)	108		70 - 130			12/15/22 13:33	12/17/22 10:01	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			12/19/22 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			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 01:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 01:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 01:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			12/12/22 09:34	12/13/22 01:54	1
o-Terphenyl (Surr)	111		70 - 130			12/12/22 09:34	12/13/22 01:54	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.6		4.99	mg/Kg			12/14/22 04:18	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-18 1'

Lab Sample ID: 880-22438-53

Date Collected: 12/05/22 14:40

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/15/22 13:33	12/17/22 10:21	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/15/22 13:33	12/17/22 10:21	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/15/22 13:33	12/17/22 10:21	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		12/15/22 13:33	12/17/22 10:21	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/15/22 13:33	12/17/22 10:21	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/15/22 13:33	12/17/22 10:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/15/22 13:33	12/17/22 10:21	1
1,4-Difluorobenzene (Surr)	112		70 - 130	12/15/22 13:33	12/17/22 10:21	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			12/19/22 17:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	414		50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 02:17	1
Diesel Range Organics (Over C10-C28)	414		50.0	mg/Kg		12/12/22 09:34	12/13/22 02:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	12/12/22 09:34	12/13/22 02:17	1
o-Terphenyl (Surr)	110		70 - 130	12/12/22 09:34	12/13/22 02:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4440		24.9	mg/Kg			12/14/22 04:26	5

Client Sample ID: S-18 3'

Lab Sample ID: 880-22438-54

Date Collected: 12/05/22 14:50

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/15/22 13:33	12/17/22 10:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/15/22 13:33	12/17/22 10:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/15/22 13:33	12/17/22 10:42	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/15/22 13:33	12/17/22 10:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/15/22 13:33	12/17/22 10:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/15/22 13:33	12/17/22 10:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/15/22 13:33	12/17/22 10:42	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/15/22 13:33	12/17/22 10:42	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-18 3'

Lab Sample ID: 880-22438-54

Date Collected: 12/05/22 14:50

Matrix: Solid

Date Received: 12/07/22 13:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/19/22 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			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 02:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 02:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 02:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130			12/12/22 09:34	12/13/22 02:39	1
o-Terphenyl (Surr)	119		70 - 130			12/12/22 09:34	12/13/22 02:39	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	251		5.00	mg/Kg			12/14/22 04:48	1

Client Sample ID: S-18 5'

Lab Sample ID: 880-22438-55

Date Collected: 12/05/22 15:00

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/15/22 13:33	12/17/22 11:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/15/22 13:33	12/17/22 11:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/15/22 13:33	12/17/22 11:02	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		12/15/22 13:33	12/17/22 11:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/15/22 13:33	12/17/22 11:02	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/15/22 13:33	12/17/22 11:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			12/15/22 13:33	12/17/22 11:02	1
1,4-Difluorobenzene (Surr)	109		70 - 130			12/15/22 13:33	12/17/22 11:02	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			12/19/22 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			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 03:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 03:01	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-18 5'

Lab Sample ID: 880-22438-55

Date Collected: 12/05/22 15:00

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 03:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			12/12/22 09:34	12/13/22 03:01	1
o-Terphenyl (Surr)	104		70 - 130			12/12/22 09:34	12/13/22 03:01	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.9		4.95	mg/Kg			12/14/22 04:56	1

Client Sample ID: S-18 10'

Lab Sample ID: 880-22438-56

Date Collected: 12/05/22 15:10

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:33	12/17/22 13:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:33	12/17/22 13:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:33	12/17/22 13:27	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/15/22 13:33	12/17/22 13:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:33	12/17/22 13:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/15/22 13:33	12/17/22 13:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			12/15/22 13:33	12/17/22 13:27	1
1,4-Difluorobenzene (Surr)	109		70 - 130			12/15/22 13:33	12/17/22 13:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			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			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 03:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 03:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 03:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			12/12/22 09:34	12/13/22 03:23	1
o-Terphenyl (Surr)	106		70 - 130			12/12/22 09:34	12/13/22 03:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.2		5.02	mg/Kg			12/14/22 05:03	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-19 1'

Lab Sample ID: 880-22438-57

Date Collected: 12/05/22 15:20

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 13:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 13:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 13:48	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/15/22 13:33	12/17/22 13:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 13:48	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/15/22 13:33	12/17/22 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/15/22 13:33	12/17/22 13:48	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/15/22 13:33	12/17/22 13:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/19/22 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			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 03:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 03:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	128		70 - 130	12/12/22 09:34	12/13/22 03:44	1
o-Terphenyl (Surr)	122		70 - 130	12/12/22 09:34	12/13/22 03:44	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	378		4.97	mg/Kg			12/14/22 05:11	1

Client Sample ID: S-19 3'

Lab Sample ID: 880-22438-58

Date Collected: 12/05/22 15:30

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/15/22 13:33	12/17/22 14:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/15/22 13:33	12/17/22 14:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/15/22 13:33	12/17/22 14:08	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/15/22 13:33	12/17/22 14:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/15/22 13:33	12/17/22 14:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/15/22 13:33	12/17/22 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/15/22 13:33	12/17/22 14:08	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/15/22 13:33	12/17/22 14:08	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-19 3'

Lab Sample ID: 880-22438-58

Date Collected: 12/05/22 15:30

Matrix: Solid

Date Received: 12/07/22 13:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/19/22 17:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	113		50.0	mg/Kg			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 04:06	1
Diesel Range Organics (Over C10-C28)	113		50.0	mg/Kg		12/12/22 09:34	12/13/22 04:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/13/22 04:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	138	S1+	70 - 130			12/12/22 09:34	12/13/22 04:06	1
o-Terphenyl (Surr)	131	S1+	70 - 130			12/12/22 09:34	12/13/22 04:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	465		4.99	mg/Kg			12/14/22 05:18	1

Client Sample ID: S-19 5'

Lab Sample ID: 880-22438-59

Date Collected: 12/05/22 15:40

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 14:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 14:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 14:43	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/15/22 13:33	12/17/22 14:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 14:43	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/15/22 13:33	12/17/22 14:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			12/15/22 13:33	12/17/22 14:43	1
1,4-Difluorobenzene (Surr)	104		70 - 130			12/15/22 13:33	12/17/22 14:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/19/22 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			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 04:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 04:28	1

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Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-19 5'

Lab Sample ID: 880-22438-59

Date Collected: 12/05/22 15:40

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 04:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			12/12/22 09:34	12/13/22 04:28	1
o-Terphenyl (Surr)	111		70 - 130			12/12/22 09:34	12/13/22 04:28	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.3		4.95	mg/Kg			12/14/22 05:26	1

Client Sample ID: S-19 10'

Lab Sample ID: 880-22438-60

Date Collected: 12/05/22 15:50

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/15/22 13:33	12/17/22 15:03	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/15/22 13:33	12/17/22 15:03	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/15/22 13:33	12/17/22 15:03	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		12/15/22 13:33	12/17/22 15:03	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/15/22 13:33	12/17/22 15:03	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/15/22 13:33	12/17/22 15:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			12/15/22 13:33	12/17/22 15:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/15/22 13:33	12/17/22 15:03	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			12/19/22 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			12/13/22 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 04:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 04:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/12/22 09:34	12/13/22 04:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			12/12/22 09:34	12/13/22 04:50	1
o-Terphenyl (Surr)	112		70 - 130			12/12/22 09:34	12/13/22 04:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.4		4.96	mg/Kg			12/14/22 05:33	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-12 1'

Lab Sample ID: 880-22438-61

Date Collected: 12/05/22 16:00

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 15:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 15:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 15:24	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/15/22 13:33	12/17/22 15:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:33	12/17/22 15:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/15/22 13:33	12/17/22 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/15/22 13:33	12/17/22 15:24	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/15/22 13:33	12/17/22 15:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			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			12/13/22 09:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/22 15:23	12/12/22 17:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/22 15:23	12/12/22 17:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/22 15:23	12/12/22 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	12/08/22 15:23	12/12/22 17:10	1
o-Terphenyl (Surr)	127		70 - 130	12/08/22 15:23	12/12/22 17:10	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6270		25.0	mg/Kg			12/15/22 00:04	5

Client Sample ID: S-12 3'

Lab Sample ID: 880-22438-62

Date Collected: 12/05/22 16:10

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:52	12/17/22 06:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:52	12/17/22 06:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:52	12/17/22 06:35	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/15/22 13:52	12/17/22 06:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:52	12/17/22 06:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/15/22 13:52	12/17/22 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/15/22 13:52	12/17/22 06:35	1
1,4-Difluorobenzene (Surr)	112		70 - 130	12/15/22 13:52	12/17/22 06:35	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-12 3'

Lab Sample ID: 880-22438-62

Date Collected: 12/05/22 16:10

Matrix: Solid

Date Received: 12/07/22 13:25

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			12/19/22 16:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/22 09:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/22 15:23	12/12/22 17:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:23	12/12/22 17:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/22 15:23	12/12/22 17:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130			12/08/22 15:23	12/12/22 17:31	1
o-Terphenyl (Surr)	137	S1+	70 - 130			12/08/22 15:23	12/12/22 17:31	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	612		5.04	mg/Kg			12/15/22 00:24	1

Client Sample ID: S-12 5'

Lab Sample ID: 880-22438-63

Date Collected: 12/05/22 16:20

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:52	12/17/22 06:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:52	12/17/22 06:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:52	12/17/22 06:55	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/15/22 13:52	12/17/22 06:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:52	12/17/22 06:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/15/22 13:52	12/17/22 06:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			12/15/22 13:52	12/17/22 06:55	1
1,4-Difluorobenzene (Surr)	110		70 - 130			12/15/22 13:52	12/17/22 06:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/19/22 16:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 09:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/22 15:23	12/12/22 17:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/22 15:23	12/12/22 17:52	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-12 5'

Lab Sample ID: 880-22438-63

Date Collected: 12/05/22 16:20

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/22 15:23	12/12/22 17:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			12/08/22 15:23	12/12/22 17:52	1
o-Terphenyl (Surr)	129		70 - 130			12/08/22 15:23	12/12/22 17:52	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	863		5.03	mg/Kg			12/15/22 00:31	1

Client Sample ID: S-12 8'

Lab Sample ID: 880-22438-64

Date Collected: 12/05/22 16:30

Matrix: Solid

Date Received: 12/07/22 13:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:52	12/17/22 07:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:52	12/17/22 07:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:52	12/17/22 07:16	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/15/22 13:52	12/17/22 07:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/15/22 13:52	12/17/22 07:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/15/22 13:52	12/17/22 07:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			12/15/22 13:52	12/17/22 07:16	1
1,4-Difluorobenzene (Surr)	108		70 - 130			12/15/22 13:52	12/17/22 07:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/19/22 16:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/22 09:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/08/22 15:23	12/12/22 18:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/08/22 15:23	12/12/22 18:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/08/22 15:23	12/12/22 18:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130			12/08/22 15:23	12/12/22 18:13	1
o-Terphenyl (Surr)	131	S1+	70 - 130			12/08/22 15:23	12/12/22 18:13	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.9		5.05	mg/Kg			12/15/22 00:37	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-22438-1
SDG: 22-0104-08

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-22438-1	S1 1'	118	92
880-22438-1 MS	S1 1'	94	94
880-22438-1 MSD	S1 1'	107	96
880-22438-2	S1 3'	113	98
880-22438-3	S1 5'	120	105
880-22438-4	S1 10'	118	100
880-22438-5	S2 1'	118	100
880-22438-6	S2 3'	114	98
880-22438-7	S2 5'	111	98
880-22438-8	S2 10'	117	95
880-22438-9	S3 1'	106	102
880-22438-10	S3 3'	117	98
880-22438-11	S3 5'	111	95
880-22438-12	S3 9'	117	93
880-22438-13	S4 1'	125	96
880-22438-14	S4 3'	124	97
880-22438-15	S4 5'	122	98
880-22438-16	S4 9'	124	100
880-22438-17	S5 1'	127	97
880-22438-18	S5 3'	127	101
880-22438-19	S5 5'	128	97
880-22438-20	S5 10'	127	95
880-22438-21	S6 1'	116	87
880-22438-21 MS	S6 1'	117	85
880-22438-21 MSD	S6 1'	119	95
880-22438-22	S6 3'	119	93
880-22438-23	S6 5'	119	95
880-22438-24	S6 9'	120	95
880-22438-25	S7 1'	124	97
880-22438-26	S7 3'	123	95
880-22438-27	S7 5'	121	95
880-22438-28	S7 9'	125	97
880-22438-29	S9 1'	117	93
880-22438-30	S9 3'	120	101
880-22438-31	S9 5'	114	89
880-22438-32	S9 9'	123	98
880-22438-33	S10 1'	130	95
880-22438-34	S10 3'	105	99
880-22438-35	S10 5'	134 S1+	91
880-22438-36	S10 8'	128	97
880-22438-37	S11 1'	130	94
880-22438-38	S11 3'	126	94
880-22438-39	S11 5'	121	95
880-22438-40	S11 9'	118	94
880-22438-41	S13 1'	118	85
880-22438-41 MS	S13 1'	102	100
880-22438-41 MSD	S13 1'	109	92
880-22438-42	S13 3'	116	105
880-22438-43	S13 5'	117	103

Eurofins Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-22438-1

Project/Site: Sand Dunes 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)
880-22438-44	S13 10'	115	96
880-22438-45	S-24 1'	119	102
880-22438-46	S-24 3'	115	97
880-22438-47	S-24 5'	121	102
880-22438-48	S-24 10'	124	106
880-22438-49	S-17 1'	112	111
880-22438-49 MS	S-17 1'	113	120
880-22438-49 MSD	S-17 1'	112	120
880-22438-50	S-17 3'	108	109
880-22438-51	S-17 5'	82	110
880-22438-52	S-17 10'	115	108
880-22438-53	S-18 1'	119	112
880-22438-54	S-18 3'	121	105
880-22438-55	S-18 5'	102	109
880-22438-56	S-18 10'	115	109
880-22438-57	S-19 1'	126	110
880-22438-58	S-19 3'	117	101
880-22438-59	S-19 5'	105	104
880-22438-60	S-19 10'	120	100
880-22438-61	S-12 1'	111	101
880-22438-62	S-12 3'	104	112
880-22438-63	S-12 5'	104	110
880-22438-64	S-12 8'	110	108
LCS 880-41920/1-A	Lab Control Sample	95	120
LCS 880-41922/1-A	Lab Control Sample	97	102
LCS 880-42018/1-A	Lab Control Sample	97	97
LCS 880-42019/1-A	Lab Control Sample	106	89
LCS 880-42020/1-A	Lab Control Sample	103	93
LCSD 880-41920/2-A	Lab Control Sample Dup	106	117
LCSD 880-41922/2-A	Lab Control Sample Dup	99	102
LCSD 880-42018/2-A	Lab Control Sample Dup	95	97
LCSD 880-42019/2-A	Lab Control Sample Dup	106	88
LCSD 880-42020/2-A	Lab Control Sample Dup	105	95
MB 880-41898/5-A	Method Blank	62 S1-	106
MB 880-41920/5-A	Method Blank	84	108
MB 880-41921/5-A	Method Blank	85	109
MB 880-41922/5-A	Method Blank	62 S1-	106
MB 880-41943/5-A	Method Blank	97	90
MB 880-42018/5-A	Method Blank	102	89
MB 880-42019/5-A	Method Blank	102	86
MB 880-42020/5-A	Method Blank	97	89
MB 880-42096/5-A	Method Blank	104	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Midland

Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-22438-1

Project/Site: Sand Dunes Pad 34

SDG: 22-0104-08

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-22438-1	S1 1'	136 S1+	127
880-22438-1 MS	S1 1'	122	107
880-22438-1 MSD	S1 1'	129	102
880-22438-2	S1 3'	102	102
880-22438-3	S1 5'	126	120
880-22438-4	S1 10'	121	117
880-22438-5	S2 1'	123	114
880-22438-6	S2 3'	105	102
880-22438-7	S2 5'	97	93
880-22438-8	S2 10'	136 S1+	125
880-22438-9	S3 1'	112	112
880-22438-10	S3 3'	105	103
880-22438-11	S3 5'	117	112
880-22438-12	S3 9'	121	113
880-22438-13	S4 1'	120	114
880-22438-14	S4 3'	124	114
880-22438-15	S4 5'	123	118
880-22438-16	S4 9'	105	102
880-22438-17	S5 1'	123	119
880-22438-18	S5 3'	130	123
880-22438-19	S5 5'	128	123
880-22438-20	S5 10'	124	119
880-22438-21	S6 1'	106	121
880-22438-21 MS	S6 1'	109	108
880-22438-21 MSD	S6 1'	108	106
880-22438-22	S6 3'	103	119
880-22438-23	S6 5'	126	145 S1+
880-22438-24	S6 9'	102	112
880-22438-25	S7 1'	120	130
880-22438-26	S7 3'	127	140 S1+
880-22438-27	S7 5'	119	132 S1+
880-22438-28	S7 9'	100	109
880-22438-29	S9 1'	112	124
880-22438-30	S9 3'	104	111
880-22438-31	S9 5'	114	121
880-22438-32	S9 9'	112	121
880-22438-33	S10 1'	99	109
880-22438-34	S10 3'	116	125
880-22438-35	S10 5'	112	121
880-22438-36	S10 8'	108	116
880-22438-37	S11 1'	111	123
880-22438-38	S11 3'	95	106
880-22438-39	S11 5'	98	109
880-22438-40	S11 9'	95	102
880-22438-41	S13 1'	108	109
880-22438-41 MS	S13 1'	136 S1+	106
880-22438-41 MSD	S13 1'	96	93
880-22438-42	S13 3'	109	109
880-22438-43	S13 5'	111	108
880-22438-44	S13 10'	107	106

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-22438-1

Project/Site: Sand Dunes 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)
880-22438-45	S-24 1'	102	103
880-22438-46	S-24 3'	106	106
880-22438-47	S-24 5'	129	121
880-22438-48	S-24 10'	124	121
880-22438-49	S-17 1'	127	123
880-22438-50	S-17 3'	129	122
880-22438-51	S-17 5'	98	99
880-22438-52	S-17 10'	110	111
880-22438-53	S-18 1'	111	110
880-22438-54	S-18 3'	119	119
880-22438-55	S-18 5'	103	104
880-22438-56	S-18 10'	105	106
880-22438-57	S-19 1'	128	122
880-22438-58	S-19 3'	138 S1+	131 S1+
880-22438-59	S-19 5'	109	111
880-22438-60	S-19 10'	112	112
880-22438-61	S-12 1'	112	127
880-22438-62	S-12 3'	120	137 S1+
880-22438-63	S-12 5'	114	129
880-22438-64	S-12 8'	117	131 S1+
LCS 880-41386/2-A	Lab Control Sample	103	107
LCS 880-41387/2-A	Lab Control Sample	136 S1+	128
LCS 880-41492/2-A	Lab Control Sample	133 S1+	165 S1+
LCS 880-41576/2-A	Lab Control Sample	156 S1+	150 S1+
LCSD 880-41386/3-A	Lab Control Sample Dup	111	118
LCSD 880-41387/3-A	Lab Control Sample Dup	160 S1+	151 S1+
LCSD 880-41492/3-A	Lab Control Sample Dup	145 S1+	177 S1+
LCSD 880-41576/3-A	Lab Control Sample Dup	151 S1+	146 S1+
MB 880-41386/1-A	Method Blank	136 S1+	197 S1+
MB 880-41387/1-A	Method Blank	126	168 S1+
MB 880-41492/1-A	Method Blank	116	176 S1+
MB 880-41576/1-A	Method Blank	126	172 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Eurofins Midland

QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41898/5-A

Matrix: Solid

Analysis Batch: 41994

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41898

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

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

Lab Sample ID: 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: LCS 880-41920/1-A

Matrix: Solid

Analysis Batch: 41992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09604		mg/Kg		96	70 - 130
Toluene	0.100	0.08341		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08191		mg/Kg		82	70 - 130
m,p-Xylenes	0.200	0.1666		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08452		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: LCSD 880-41920/2-A

Matrix: Solid

Analysis Batch: 41992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41920

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09557		mg/Kg		96	70 - 130	0	35

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QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

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

Lab Sample ID: LCSD 880-41920/2-A

Matrix: Solid

Analysis Batch: 41992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41920

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08776		mg/Kg		88	70 - 130	5	35
Ethylbenzene	0.100	0.08921		mg/Kg		89	70 - 130	9	35
m,p-Xylenes	0.200	0.1870		mg/Kg		93	70 - 130	12	35
o-Xylene	0.100	0.09493		mg/Kg		95	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-22438-49 MS

Matrix: Solid

Analysis Batch: 41992

Client Sample ID: S-17 1'

Prep Type: Total/NA

Prep Batch: 41920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09131		mg/Kg		91	70 - 130
Toluene	<0.00200	U	0.100	0.07610		mg/Kg		76	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.07319		mg/Kg		73	70 - 130
m,p-Xylenes	<0.00399	U	0.201	0.1495		mg/Kg		74	70 - 130
o-Xylene	<0.00200	U	0.100	0.07632		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: 880-22438-49 MSD

Matrix: Solid

Analysis Batch: 41992

Client Sample ID: S-17 1'

Prep Type: Total/NA

Prep Batch: 41920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.09280		mg/Kg		94	70 - 130	2	35
Toluene	<0.00200	U	0.0990	0.07463		mg/Kg		75	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0990	0.07346		mg/Kg		74	70 - 130	0	35
m,p-Xylenes	<0.00399	U	0.198	0.1490		mg/Kg		75	70 - 130	0	35
o-Xylene	<0.00200	U	0.0990	0.07522		mg/Kg		76	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: MB 880-41921/5-A

Matrix: Solid

Analysis Batch: 41992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41921

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:49	12/16/22 22:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:49	12/16/22 22:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:49	12/16/22 22:00	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/15/22 13:49	12/16/22 22:00	1

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QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

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

Lab Sample ID: MB 880-41921/5-A

Matrix: Solid

Analysis Batch: 41992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41921

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:49	12/16/22 22:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/15/22 13:49	12/16/22 22:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			12/15/22 13:49	12/16/22 22:00	1
1,4-Difluorobenzene (Surr)	109		70 - 130			12/15/22 13:49	12/16/22 22:00	1

Lab Sample ID: MB 880-41922/5-A

Matrix: Solid

Analysis Batch: 41994

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41922

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:52	12/16/22 23:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:52	12/16/22 23:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:52	12/16/22 23:09	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/15/22 13:52	12/16/22 23:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/15/22 13:52	12/16/22 23:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/15/22 13:52	12/16/22 23:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130			12/15/22 13:52	12/16/22 23:09	1
1,4-Difluorobenzene (Surr)	106		70 - 130			12/15/22 13:52	12/16/22 23:09	1

Lab Sample ID: LCS 880-41922/1-A

Matrix: Solid

Analysis Batch: 41994

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09248		mg/Kg		92	70 - 130
Toluene	0.100	0.08679		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08628		mg/Kg		86	70 - 130
m,p-Xylenes	0.200	0.1858		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09236		mg/Kg		92	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	97		70 - 130				
1,4-Difluorobenzene (Surr)	102		70 - 130				

Lab Sample ID: LCSD 880-41922/2-A

Matrix: Solid

Analysis Batch: 41994

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41922

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09357		mg/Kg		94	70 - 130	1	35
Toluene	0.100	0.08635		mg/Kg		86	70 - 130	1	35
Ethylbenzene	0.100	0.08714		mg/Kg		87	70 - 130	1	35
m,p-Xylenes	0.200	0.1872		mg/Kg		94	70 - 130	1	35
o-Xylene	0.100	0.09368		mg/Kg		94	70 - 130	1	35

Eurofins Midland

QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

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

	LCSD LCSD		
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-41943/5-A

Matrix: Solid

Analysis Batch: 41993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41943

	MB MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		12/15/22 15:22	12/17/22 08:47	1	
Toluene	<0.00200	U	0.00200	mg/Kg		12/15/22 15:22	12/17/22 08:47	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/15/22 15:22	12/17/22 08:47	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/15/22 15:22	12/17/22 08:47	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/15/22 15:22	12/17/22 08:47	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/15/22 15:22	12/17/22 08:47	1	

	MB MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	97		70 - 130	12/15/22 15:22	12/17/22 08:47	1			
1,4-Difluorobenzene (Surr)	90		70 - 130	12/15/22 15:22	12/17/22 08:47	1			

Lab Sample ID: MB 880-42018/5-A

Matrix: Solid

Analysis Batch: 41993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42018

	MB MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 18:43	1	
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 18:43	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 18:43	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/16/22 10:55	12/18/22 18:43	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:55	12/18/22 18:43	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/16/22 10:55	12/18/22 18:43	1	

	MB MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	102		70 - 130	12/16/22 10:55	12/18/22 18:43	1			
1,4-Difluorobenzene (Surr)	89		70 - 130	12/16/22 10:55	12/18/22 18:43	1			

Lab Sample ID: LCS 880-42018/1-A

Matrix: Solid

Analysis Batch: 41993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42018

		Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.1072		mg/Kg		107	70 - 130		
Toluene	0.100	0.09943		mg/Kg		99	70 - 130		
Ethylbenzene	0.100	0.09357		mg/Kg		94	70 - 130		
m,p-Xylenes	0.200	0.2005		mg/Kg		100	70 - 130		
o-Xylene	0.100	0.09970		mg/Kg		100	70 - 130		

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

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QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

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

Lab Sample ID: LCSD 880-42018/2-A

Matrix: Solid

Analysis Batch: 41993

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42018

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1065		mg/Kg		107	70 - 130	1	35
Toluene	0.100	0.09797		mg/Kg		98	70 - 130	1	35
Ethylbenzene	0.100	0.08949		mg/Kg		89	70 - 130	4	35
m,p-Xylenes	0.200	0.1901		mg/Kg		95	70 - 130	5	35
o-Xylene	0.100	0.09519		mg/Kg		95	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-22438-1 MS

Matrix: Solid

Analysis Batch: 41993

Client Sample ID: S1 1'

Prep Type: Total/NA

Prep Batch: 42018

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.1015		mg/Kg		101	70 - 130
Toluene	<0.00200	U	0.0996	0.09284		mg/Kg		93	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.08451		mg/Kg		85	70 - 130
m,p-Xylenes	<0.00401	U F2 F1	0.199	0.1811		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.0996	0.08928		mg/Kg		89	70 - 130

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

Lab Sample ID: 880-22438-1 MSD

Matrix: Solid

Analysis Batch: 41993

Client Sample ID: S1 1'

Prep Type: Total/NA

Prep Batch: 42018

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.09202		mg/Kg		93	70 - 130	10	35
Toluene	<0.00200	U	0.0990	0.07438		mg/Kg		75	70 - 130	22	35
Ethylbenzene	<0.00200	U	0.0990	0.08226		mg/Kg		83	70 - 130	3	35
m,p-Xylenes	<0.00401	U F2 F1	0.198	0.04931	F2 F1	mg/Kg		25	70 - 130	114	35
o-Xylene	<0.00200	U	0.0990	0.08934		mg/Kg		90	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-42019/5-A

Matrix: Solid

Analysis Batch: 42181

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42019

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 03:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 03:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 03:14	1

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QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

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

Lab Sample ID: MB 880-42019/5-A

Matrix: Solid

Analysis Batch: 42181

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42019

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/16/22 10:59	12/20/22 03:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 10:59	12/20/22 03:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/16/22 10:59	12/20/22 03:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	12/16/22 10:59	12/20/22 03:14	1
1,4-Difluorobenzene (Surr)	86		70 - 130	12/16/22 10:59	12/20/22 03:14	1

Lab Sample ID: LCS 880-42019/1-A

Matrix: Solid

Analysis Batch: 42181

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.08619		mg/Kg		86	70 - 130
Toluene	0.100	0.08959		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08609		mg/Kg		86	70 - 130
m,p-Xylenes	0.200	0.1972		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09952		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-42019/2-A

Matrix: Solid

Analysis Batch: 42181

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42019

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09293		mg/Kg		93	70 - 130	8	35
Toluene	0.100	0.09523		mg/Kg		95	70 - 130	6	35
Ethylbenzene	0.100	0.09153		mg/Kg		92	70 - 130	6	35
m,p-Xylenes	0.200	0.2074		mg/Kg		104	70 - 130	5	35
o-Xylene	0.100	0.1050		mg/Kg		105	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-22438-21 MS

Matrix: Solid

Analysis Batch: 42181

Client Sample ID: S6 1'

Prep Type: Total/NA

Prep Batch: 42019

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U F1	0.100	0.05632	F1	mg/Kg		56	70 - 130
Toluene	<0.00201	U F1 F2	0.100	0.05578	F1	mg/Kg		54	70 - 130
Ethylbenzene	<0.00201	U F1	0.100	0.05795	F1	mg/Kg		58	70 - 130
m,p-Xylenes	<0.00402	U F1 F2	0.200	0.06351	F1	mg/Kg		30	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.06747	F1	mg/Kg		66	70 - 130

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QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 880-22438-21 MSD

Matrix: Solid

Analysis Batch: 42181

Client Sample ID: S6 1'

Prep Type: Total/NA

Prep Batch: 42019

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	0.04815	F1	mg/Kg		49	70 - 130	16	35
Toluene	<0.00201	U F1 F2	0.0990	0.03893	F1 F2	mg/Kg		38	70 - 130	36	35
Ethylbenzene	<0.00201	U F1	0.0990	0.05744	F1	mg/Kg		58	70 - 130	1	35
m,p-Xylenes	<0.00402	U F1 F2	0.198	0.01331	F1 F2	mg/Kg		5	70 - 130	131	35
o-Xylene	<0.00201	U F1	0.0990	0.07145		mg/Kg		71	70 - 130	6	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-42020/5-A

Matrix: Solid

Analysis Batch: 42181

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42020

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/16/22 11:07	12/20/22 16:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 11:07	12/20/22 16:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 11:07	12/20/22 16:20	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/16/22 11:07	12/20/22 16:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 11:07	12/20/22 16:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/16/22 11:07	12/20/22 16:20	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	97		70 - 130	12/16/22 11:07	12/20/22 16:20	1		
1,4-Difluorobenzene (Surr)	89		70 - 130	12/16/22 11:07	12/20/22 16:20	1		

Lab Sample ID: LCS 880-42020/1-A

Matrix: Solid

Analysis Batch: 42181

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09474		mg/Kg		95	70 - 130
Toluene	0.100	0.09105		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08644		mg/Kg		86	70 - 130
m,p-Xylenes	0.200	0.1856		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09578		mg/Kg		96	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

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QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

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

Lab Sample ID: LCSD 880-42020/2-A

Matrix: Solid

Analysis Batch: 42181

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42020

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1010		mg/Kg		101	70 - 130	6	35
Toluene	0.100	0.09524		mg/Kg		95	70 - 130	4	35
Ethylbenzene	0.100	0.09076		mg/Kg		91	70 - 130	5	35
m,p-Xylenes	0.200	0.1962		mg/Kg		98	70 - 130	6	35
o-Xylene	0.100	0.1010		mg/Kg		101	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-22438-41 MS

Matrix: Solid

Analysis Batch: 42181

Client Sample ID: S13 1'

Prep Type: Total/NA

Prep Batch: 42020

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09027		mg/Kg		90	70 - 130
Toluene	<0.00201	U	0.100	0.08510		mg/Kg		85	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.07695		mg/Kg		77	70 - 130
m,p-Xylenes	<0.00402	U	0.200	0.1721		mg/Kg		86	70 - 130
o-Xylene	<0.00201	U	0.100	0.08815		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-22438-41 MSD

Matrix: Solid

Analysis Batch: 42181

Client Sample ID: S13 1'

Prep Type: Total/NA

Prep Batch: 42020

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	0.08874		mg/Kg		90	70 - 130	2	35
Toluene	<0.00201	U	0.0990	0.08563		mg/Kg		86	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0990	0.08040		mg/Kg		81	70 - 130	4	35
m,p-Xylenes	<0.00402	U	0.198	0.1820		mg/Kg		92	70 - 130	6	35
o-Xylene	<0.00201	U	0.0990	0.09249		mg/Kg		93	70 - 130	5	35

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

Lab Sample ID: MB 880-42096/5-A

Matrix: Solid

Analysis Batch: 42181

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42096

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/17/22 16:02	12/19/22 16:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/17/22 16:02	12/19/22 16:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/17/22 16:02	12/19/22 16:35	1

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QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

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

Lab Sample ID: MB 880-42096/5-A

Matrix: Solid

Analysis Batch: 42181

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42096

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/17/22 16:02	12/19/22 16:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/17/22 16:02	12/19/22 16:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/17/22 16:02	12/19/22 16:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/17/22 16:02	12/19/22 16:35	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/17/22 16:02	12/19/22 16:35	1

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

Lab Sample ID: MB 880-41386/1-A

Matrix: Solid

Analysis Batch: 41561

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41386

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/22 15:23	12/12/22 08:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:23	12/12/22 08:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/22 15:23	12/12/22 08:40	1

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

Lab Sample ID: LCS 880-41386/2-A

Matrix: Solid

Analysis Batch: 41561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41386

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

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

Lab Sample ID: LCSD 880-41386/3-A

Matrix: Solid

Analysis Batch: 41561

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41386

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

Eurofins Midland

QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

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

Lab Sample ID: LCSD 880-41386/3-A

Matrix: Solid

Analysis Batch: 41561

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41386

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

Lab Sample ID: MB 880-41387/1-A

Matrix: Solid

Analysis Batch: 41557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41387

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 08:20	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 08:20	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/08/22 15:27	12/12/22 08:20	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	126		70 - 130			12/08/22 15:27	12/12/22 08:20	1	
o-Terphenyl (Surr)	168	S1+	70 - 130			12/08/22 15:27	12/12/22 08:20	1	

Lab Sample ID: LCS 880-41387/2-A

Matrix: Solid

Analysis Batch: 41557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41387

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	959.5		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	919.7		mg/Kg		92	70 - 130		
Surrogate		%Recovery	Qualifier	Limits					
1-Chlorooctane (Surr)		136	S1+	70 - 130					
o-Terphenyl (Surr)		128		70 - 130					

Lab Sample ID: LCSD 880-41387/3-A

Matrix: Solid

Analysis Batch: 41557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41387

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	1076		mg/Kg		108	70 - 130	11	20	
Diesel Range Organics (Over C10-C28)	1000	1057		mg/Kg		106	70 - 130	14	20	
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)		160	S1+	70 - 130						
o-Terphenyl (Surr)		151	S1+	70 - 130						

Eurofins Midland

QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

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

Lab Sample ID: 880-22438-1 MS

Matrix: Solid

Analysis Batch: 41557

Client Sample ID: S1 1'

Prep Type: Total/NA

Prep Batch: 41387

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	820.5		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1128		mg/Kg		113	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	122		70 - 130						
o-Terphenyl (Surr)	107		70 - 130						

Lab Sample ID: 880-22438-1 MSD

Matrix: Solid

Analysis Batch: 41557

Client Sample ID: S1 1'

Prep Type: Total/NA

Prep Batch: 41387

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	1176	F2	mg/Kg		114	70 - 130	36	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1071		mg/Kg		107	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	129		70 - 130								
o-Terphenyl (Surr)	102		70 - 130								

Lab Sample ID: MB 880-41492/1-A

Matrix: Solid

Analysis Batch: 41559

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41492

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		12/09/22 15:03	12/12/22 08:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 08:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/09/22 15:03	12/12/22 08:20	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			12/09/22 15:03	12/12/22 08:20	1
o-Terphenyl (Surr)	176	S1+	70 - 130			12/09/22 15:03	12/12/22 08:20	1

Lab Sample ID: LCS 880-41492/2-A

Matrix: Solid

Analysis Batch: 41559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	828.3		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	894.0		mg/Kg		89	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

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

Lab Sample ID: LCS 880-41492/2-A

Matrix: Solid

Analysis Batch: 41559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41492

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	133	S1+	70 - 130
o-Terphenyl (Surr)	165	S1+	70 - 130

Lab Sample ID: LCSD 880-41492/3-A

Matrix: Solid

Analysis Batch: 41559

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41492

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	853.2		mg/Kg		85	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	971.7		mg/Kg		97	70 - 130	8	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	145	S1+	70 - 130
o-Terphenyl (Surr)	177	S1+	70 - 130

Lab Sample ID: 880-22438-21 MS

Matrix: Solid

Analysis Batch: 41559

Client Sample ID: S6 1'

Prep Type: Total/NA

Prep Batch: 41492

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	997	1070		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1209		mg/Kg		121	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	109		70 - 130
o-Terphenyl (Surr)	108		70 - 130

Lab Sample ID: 880-22438-21 MSD

Matrix: Solid

Analysis Batch: 41559

Client Sample ID: S6 1'

Prep Type: Total/NA

Prep Batch: 41492

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1111		mg/Kg		108	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1204		mg/Kg		120	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	106		70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

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

Lab Sample ID: MB 880-41576/1-A

Matrix: Solid

Analysis Batch: 41557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41576

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		12/12/22 09:34	12/12/22 19:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/12/22 19:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/12/22 09:34	12/12/22 19:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	126		70 - 130			12/12/22 09:34	12/12/22 19:41	1
o-Terphenyl (Surr)	172	S1+	70 - 130			12/12/22 09:34	12/12/22 19:41	1

Lab Sample ID: LCS 880-41576/2-A

Matrix: Solid

Analysis Batch: 41557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	959.8		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1062		mg/Kg		106	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	156	S1+	70 - 130				
o-Terphenyl (Surr)	150	S1+	70 - 130				

Lab Sample ID: LCSD 880-41576/3-A

Matrix: Solid

Analysis Batch: 41557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41576

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	946.8		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1034		mg/Kg		103	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	151	S1+	70 - 130						
o-Terphenyl (Surr)	146	S1+	70 - 130						

Lab Sample ID: 880-22438-41 MS

Matrix: Solid

Analysis Batch: 41557

Client Sample ID: S13 1'

Prep Type: Total/NA

Prep Batch: 41576

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	1045		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1125		mg/Kg		111	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

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

Lab Sample ID: 880-22438-41 MS

Matrix: Solid

Analysis Batch: 41557

Client Sample ID: S13 1'

Prep Type: Total/NA

Prep Batch: 41576

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	136	S1+	70 - 130
o-Terphenyl (Surr)	106		70 - 130

Lab Sample ID: 880-22438-41 MSD

Matrix: Solid

Analysis Batch: 41557

Client Sample ID: S13 1'

Prep Type: Total/NA

Prep Batch: 41576

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	963.5		mg/Kg		97	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	965.9		mg/Kg		95	70 - 130	15	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	96		70 - 130
o-Terphenyl (Surr)	93		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41370/1-A

Matrix: Solid

Analysis Batch: 41737

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/14/22 01:47	1

Lab Sample ID: LCS 880-41370/2-A

Matrix: Solid

Analysis Batch: 41737

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.1		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-41370/3-A

Matrix: Solid

Analysis Batch: 41737

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.9		mg/Kg		101	90 - 110	2	20

Lab Sample ID: 880-22438-41 MS

Matrix: Solid

Analysis Batch: 41737

Client Sample ID: S13 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	51.9		253	308.2		mg/Kg		102	90 - 110

Eurofins Midland

QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-22438-41 MSD

Matrix: Solid

Analysis Batch: 41737

Client Sample ID: S13 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	51.9		253	306.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-22438-51 MS

Matrix: Solid

Analysis Batch: 41737

Client Sample ID: S-17 5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	23.6		252	275.4		mg/Kg		100	90 - 110		

Lab Sample ID: 880-22438-51 MSD

Matrix: Solid

Analysis Batch: 41737

Client Sample ID: S-17 5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	23.6		252	278.9		mg/Kg		101	90 - 110	1	20

Lab Sample ID: MB 880-41368/1-A

Matrix: Solid

Analysis Batch: 41858

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/14/22 19:52	1

Lab Sample ID: LCS 880-41368/2-A

Matrix: Solid

Analysis Batch: 41858

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	243.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-41368/3-A

Matrix: Solid

Analysis Batch: 41858

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	255.7		mg/Kg		102	90 - 110	5	20

Lab Sample ID: 880-22438-1 MS

Matrix: Solid

Analysis Batch: 41858

Client Sample ID: S1 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	469	F1	252	680.5	F1	mg/Kg		84	90 - 110		

Lab Sample ID: 880-22438-1 MSD

Matrix: Solid

Analysis Batch: 41858

Client Sample ID: S1 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	469	F1	252	684.4	F1	mg/Kg		86	90 - 110	1	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-22438-11 MS

Matrix: Solid

Analysis Batch: 41858

Client Sample ID: S3 5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	22.2		249	274.1		mg/Kg		101	90 - 110

Lab Sample ID: 880-22438-11 MSD

Matrix: Solid

Analysis Batch: 41858

Client Sample ID: S3 5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	22.2		249	293.5		mg/Kg		109	90 - 110	7	20

Lab Sample ID: MB 880-41369/1-A

Matrix: Solid

Analysis Batch: 41859

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			12/15/22 08:00	1

Lab Sample ID: LCS 880-41369/2-A

Matrix: Solid

Analysis Batch: 41859

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-41369/3-A

Matrix: Solid

Analysis Batch: 41859

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.6		mg/Kg		95	90 - 110	4	20

Lab Sample ID: 880-22438-21 MS

Matrix: Solid

Analysis Batch: 41859

Client Sample ID: S6 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	28.5	F1	250	248.7	F1	mg/Kg		88	90 - 110

Lab Sample ID: 880-22438-21 MSD

Matrix: Solid

Analysis Batch: 41859

Client Sample ID: S6 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	28.5	F1	250	247.3	F1	mg/Kg		88	90 - 110	1	20

Lab Sample ID: 880-22438-31 MS

Matrix: Solid

Analysis Batch: 41859

Client Sample ID: S9 5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	34.3		248	258.7		mg/Kg		91	90 - 110

Eurofins Midland

QC Sample Results

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

Job ID: 880-22438-1
SDG: 22-0104-08

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-22438-31 MSD

Matrix: Solid

Analysis Batch: 41859

Client Sample ID: S9 5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	34.3		248	258.2		mg/Kg		90	90 - 110	0	20

Lab Sample ID: MB 880-41371/1-A

Matrix: Solid

Analysis Batch: 41860

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/14/22 23:44	1

Lab Sample ID: LCS 880-41371/2-A

Matrix: Solid

Analysis Batch: 41860

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.2		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-41371/3-A

Matrix: Solid

Analysis Batch: 41860

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	251.1		mg/Kg		100	90 - 110	3	20

Lab Sample ID: 880-22438-61 MS

Matrix: Solid

Analysis Batch: 41860

Client Sample ID: S-12 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6270		1250	6500	4	mg/Kg		18	90 - 110

Lab Sample ID: 880-22438-61 MSD

Matrix: Solid

Analysis Batch: 41860

Client Sample ID: S-12 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6270		1250	7057	4	mg/Kg		63	90 - 110	8	20

Eurofins Midland

QC Association Summary

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

Job ID: 880-22438-1
SDG: 22-0104-08

GC VOA

Prep Batch: 41898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-41898/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 41920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-49	S-17 1'	Total/NA	Solid	5035	
880-22438-50	S-17 3'	Total/NA	Solid	5035	
880-22438-51	S-17 5'	Total/NA	Solid	5035	
880-22438-52	S-17 10'	Total/NA	Solid	5035	
880-22438-53	S-18 1'	Total/NA	Solid	5035	
880-22438-54	S-18 3'	Total/NA	Solid	5035	
880-22438-55	S-18 5'	Total/NA	Solid	5035	
880-22438-56	S-18 10'	Total/NA	Solid	5035	
880-22438-57	S-19 1'	Total/NA	Solid	5035	
880-22438-58	S-19 3'	Total/NA	Solid	5035	
880-22438-59	S-19 5'	Total/NA	Solid	5035	
880-22438-60	S-19 10'	Total/NA	Solid	5035	
880-22438-61	S-12 1'	Total/NA	Solid	5035	
MB 880-41920/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41920/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41920/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22438-49 MS	S-17 1'	Total/NA	Solid	5035	
880-22438-49 MSD	S-17 1'	Total/NA	Solid	5035	

Prep Batch: 41921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-41921/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 41922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-62	S-12 3'	Total/NA	Solid	5035	
880-22438-63	S-12 5'	Total/NA	Solid	5035	
880-22438-64	S-12 8'	Total/NA	Solid	5035	
MB 880-41922/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41922/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41922/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 41943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-41943/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 41992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-49	S-17 1'	Total/NA	Solid	8021B	41920
880-22438-50	S-17 3'	Total/NA	Solid	8021B	41920
880-22438-51	S-17 5'	Total/NA	Solid	8021B	41920
880-22438-52	S-17 10'	Total/NA	Solid	8021B	41920
880-22438-53	S-18 1'	Total/NA	Solid	8021B	41920
880-22438-54	S-18 3'	Total/NA	Solid	8021B	41920
880-22438-55	S-18 5'	Total/NA	Solid	8021B	41920
880-22438-56	S-18 10'	Total/NA	Solid	8021B	41920
880-22438-57	S-19 1'	Total/NA	Solid	8021B	41920

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

Job ID: 880-22438-1
SDG: 22-0104-08

GC VOA (Continued)

Analysis Batch: 41992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-58	S-19 3'	Total/NA	Solid	8021B	41920
880-22438-59	S-19 5'	Total/NA	Solid	8021B	41920
880-22438-60	S-19 10'	Total/NA	Solid	8021B	41920
880-22438-61	S-12 1'	Total/NA	Solid	8021B	41920
MB 880-41920/5-A	Method Blank	Total/NA	Solid	8021B	41920
MB 880-41921/5-A	Method Blank	Total/NA	Solid	8021B	41921
LCS 880-41920/1-A	Lab Control Sample	Total/NA	Solid	8021B	41920
LCSD 880-41920/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41920
880-22438-49 MS	S-17 1'	Total/NA	Solid	8021B	41920
880-22438-49 MSD	S-17 1'	Total/NA	Solid	8021B	41920

Analysis Batch: 41993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-1	S1 1'	Total/NA	Solid	8021B	42018
880-22438-2	S1 3'	Total/NA	Solid	8021B	42018
880-22438-3	S1 5'	Total/NA	Solid	8021B	42018
880-22438-4	S1 10'	Total/NA	Solid	8021B	42018
880-22438-5	S2 1'	Total/NA	Solid	8021B	42018
880-22438-6	S2 3'	Total/NA	Solid	8021B	42018
880-22438-7	S2 5'	Total/NA	Solid	8021B	42018
880-22438-8	S2 10'	Total/NA	Solid	8021B	42018
880-22438-9	S3 1'	Total/NA	Solid	8021B	42018
880-22438-10	S3 3'	Total/NA	Solid	8021B	42018
880-22438-11	S3 5'	Total/NA	Solid	8021B	42018
880-22438-12	S3 9'	Total/NA	Solid	8021B	42018
880-22438-13	S4 1'	Total/NA	Solid	8021B	42018
880-22438-14	S4 3'	Total/NA	Solid	8021B	42018
880-22438-15	S4 5'	Total/NA	Solid	8021B	42018
880-22438-16	S4 9'	Total/NA	Solid	8021B	42018
880-22438-17	S5 1'	Total/NA	Solid	8021B	42018
880-22438-18	S5 3'	Total/NA	Solid	8021B	42018
880-22438-19	S5 5'	Total/NA	Solid	8021B	42018
880-22438-20	S5 10'	Total/NA	Solid	8021B	42018
MB 880-41943/5-A	Method Blank	Total/NA	Solid	8021B	41943
MB 880-42018/5-A	Method Blank	Total/NA	Solid	8021B	42018
LCS 880-42018/1-A	Lab Control Sample	Total/NA	Solid	8021B	42018
LCSD 880-42018/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42018
880-22438-1 MS	S1 1'	Total/NA	Solid	8021B	42018
880-22438-1 MSD	S1 1'	Total/NA	Solid	8021B	42018

Analysis Batch: 41994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-62	S-12 3'	Total/NA	Solid	8021B	41922
880-22438-63	S-12 5'	Total/NA	Solid	8021B	41922
880-22438-64	S-12 8'	Total/NA	Solid	8021B	41922
MB 880-41898/5-A	Method Blank	Total/NA	Solid	8021B	41898
MB 880-41922/5-A	Method Blank	Total/NA	Solid	8021B	41922
LCS 880-41922/1-A	Lab Control Sample	Total/NA	Solid	8021B	41922
LCSD 880-41922/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41922

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

Job ID: 880-22438-1
SDG: 22-0104-08

GC VOA

Prep Batch: 42018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-1	S1 1'	Total/NA	Solid	5035	
880-22438-2	S1 3'	Total/NA	Solid	5035	
880-22438-3	S1 5'	Total/NA	Solid	5035	
880-22438-4	S1 10'	Total/NA	Solid	5035	
880-22438-5	S2 1'	Total/NA	Solid	5035	
880-22438-6	S2 3'	Total/NA	Solid	5035	
880-22438-7	S2 5'	Total/NA	Solid	5035	
880-22438-8	S2 10'	Total/NA	Solid	5035	
880-22438-9	S3 1'	Total/NA	Solid	5035	
880-22438-10	S3 3'	Total/NA	Solid	5035	
880-22438-11	S3 5'	Total/NA	Solid	5035	
880-22438-12	S3 9'	Total/NA	Solid	5035	
880-22438-13	S4 1'	Total/NA	Solid	5035	
880-22438-14	S4 3'	Total/NA	Solid	5035	
880-22438-15	S4 5'	Total/NA	Solid	5035	
880-22438-16	S4 9'	Total/NA	Solid	5035	
880-22438-17	S5 1'	Total/NA	Solid	5035	
880-22438-18	S5 3'	Total/NA	Solid	5035	
880-22438-19	S5 5'	Total/NA	Solid	5035	
880-22438-20	S5 10'	Total/NA	Solid	5035	
MB 880-42018/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42018/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42018/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22438-1 MS	S1 1'	Total/NA	Solid	5035	
880-22438-1 MSD	S1 1'	Total/NA	Solid	5035	

Prep Batch: 42019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-21	S6 1'	Total/NA	Solid	5035	
880-22438-22	S6 3'	Total/NA	Solid	5035	
880-22438-23	S6 5'	Total/NA	Solid	5035	
880-22438-24	S6 9'	Total/NA	Solid	5035	
880-22438-25	S7 1'	Total/NA	Solid	5035	
880-22438-26	S7 3'	Total/NA	Solid	5035	
880-22438-27	S7 5'	Total/NA	Solid	5035	
880-22438-28	S7 9'	Total/NA	Solid	5035	
880-22438-29	S9 1'	Total/NA	Solid	5035	
880-22438-30	S9 3'	Total/NA	Solid	5035	
880-22438-31	S9 5'	Total/NA	Solid	5035	
880-22438-32	S9 9'	Total/NA	Solid	5035	
880-22438-33	S10 1'	Total/NA	Solid	5035	
880-22438-34	S10 3'	Total/NA	Solid	5035	
880-22438-35	S10 5'	Total/NA	Solid	5035	
880-22438-36	S10 8'	Total/NA	Solid	5035	
880-22438-37	S11 1'	Total/NA	Solid	5035	
880-22438-38	S11 3'	Total/NA	Solid	5035	
880-22438-39	S11 5'	Total/NA	Solid	5035	
880-22438-40	S11 9'	Total/NA	Solid	5035	
MB 880-42019/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42019/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42019/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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

Job ID: 880-22438-1
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GC VOA (Continued)

Prep Batch: 42019 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-21 MS	S6 1'	Total/NA	Solid	5035	
880-22438-21 MSD	S6 1'	Total/NA	Solid	5035	

Prep Batch: 42020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-41	S13 1'	Total/NA	Solid	5035	
880-22438-42	S13 3'	Total/NA	Solid	5035	
880-22438-43	S13 5'	Total/NA	Solid	5035	
880-22438-44	S13 10'	Total/NA	Solid	5035	
880-22438-45	S-24 1'	Total/NA	Solid	5035	
880-22438-46	S-24 3'	Total/NA	Solid	5035	
880-22438-47	S-24 5'	Total/NA	Solid	5035	
880-22438-48	S-24 10'	Total/NA	Solid	5035	
MB 880-42020/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42020/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42020/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22438-41 MS	S13 1'	Total/NA	Solid	5035	
880-22438-41 MSD	S13 1'	Total/NA	Solid	5035	

Prep Batch: 42096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42096/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 42181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-21	S6 1'	Total/NA	Solid	8021B	42019
880-22438-22	S6 3'	Total/NA	Solid	8021B	42019
880-22438-23	S6 5'	Total/NA	Solid	8021B	42019
880-22438-24	S6 9'	Total/NA	Solid	8021B	42019
880-22438-25	S7 1'	Total/NA	Solid	8021B	42019
880-22438-26	S7 3'	Total/NA	Solid	8021B	42019
880-22438-27	S7 5'	Total/NA	Solid	8021B	42019
880-22438-28	S7 9'	Total/NA	Solid	8021B	42019
880-22438-29	S9 1'	Total/NA	Solid	8021B	42019
880-22438-30	S9 3'	Total/NA	Solid	8021B	42019
880-22438-31	S9 5'	Total/NA	Solid	8021B	42019
880-22438-32	S9 9'	Total/NA	Solid	8021B	42019
880-22438-33	S10 1'	Total/NA	Solid	8021B	42019
880-22438-34	S10 3'	Total/NA	Solid	8021B	42019
880-22438-35	S10 5'	Total/NA	Solid	8021B	42019
880-22438-36	S10 8'	Total/NA	Solid	8021B	42019
880-22438-37	S11 1'	Total/NA	Solid	8021B	42019
880-22438-38	S11 3'	Total/NA	Solid	8021B	42019
880-22438-39	S11 5'	Total/NA	Solid	8021B	42019
880-22438-40	S11 9'	Total/NA	Solid	8021B	42019
880-22438-41	S13 1'	Total/NA	Solid	8021B	42020
880-22438-42	S13 3'	Total/NA	Solid	8021B	42020
880-22438-43	S13 5'	Total/NA	Solid	8021B	42020
880-22438-44	S13 10'	Total/NA	Solid	8021B	42020
880-22438-45	S-24 1'	Total/NA	Solid	8021B	42020
880-22438-46	S-24 3'	Total/NA	Solid	8021B	42020

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Client: Larson & Associates, Inc.
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GC VOA (Continued)

Analysis Batch: 42181 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-47	S-24 5'	Total/NA	Solid	8021B	42020
880-22438-48	S-24 10'	Total/NA	Solid	8021B	42020
MB 880-42019/5-A	Method Blank	Total/NA	Solid	8021B	42019
MB 880-42020/5-A	Method Blank	Total/NA	Solid	8021B	42020
MB 880-42096/5-A	Method Blank	Total/NA	Solid	8021B	42096
LCS 880-42019/1-A	Lab Control Sample	Total/NA	Solid	8021B	42019
LCS 880-42020/1-A	Lab Control Sample	Total/NA	Solid	8021B	42020
LCSD 880-42019/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42019
LCSD 880-42020/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42020
880-22438-21 MS	S6 1'	Total/NA	Solid	8021B	42019
880-22438-21 MSD	S6 1'	Total/NA	Solid	8021B	42019
880-22438-41 MS	S13 1'	Total/NA	Solid	8021B	42020
880-22438-41 MSD	S13 1'	Total/NA	Solid	8021B	42020

Analysis Batch: 42233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-1	S1 1'	Total/NA	Solid	Total BTEX	
880-22438-2	S1 3'	Total/NA	Solid	Total BTEX	
880-22438-3	S1 5'	Total/NA	Solid	Total BTEX	
880-22438-4	S1 10'	Total/NA	Solid	Total BTEX	
880-22438-5	S2 1'	Total/NA	Solid	Total BTEX	
880-22438-6	S2 3'	Total/NA	Solid	Total BTEX	
880-22438-7	S2 5'	Total/NA	Solid	Total BTEX	
880-22438-8	S2 10'	Total/NA	Solid	Total BTEX	
880-22438-9	S3 1'	Total/NA	Solid	Total BTEX	
880-22438-10	S3 3'	Total/NA	Solid	Total BTEX	
880-22438-11	S3 5'	Total/NA	Solid	Total BTEX	
880-22438-12	S3 9'	Total/NA	Solid	Total BTEX	
880-22438-13	S4 1'	Total/NA	Solid	Total BTEX	
880-22438-14	S4 3'	Total/NA	Solid	Total BTEX	
880-22438-15	S4 5'	Total/NA	Solid	Total BTEX	
880-22438-16	S4 9'	Total/NA	Solid	Total BTEX	
880-22438-17	S5 1'	Total/NA	Solid	Total BTEX	
880-22438-18	S5 3'	Total/NA	Solid	Total BTEX	
880-22438-19	S5 5'	Total/NA	Solid	Total BTEX	
880-22438-20	S5 10'	Total/NA	Solid	Total BTEX	
880-22438-21	S6 1'	Total/NA	Solid	Total BTEX	
880-22438-22	S6 3'	Total/NA	Solid	Total BTEX	
880-22438-23	S6 5'	Total/NA	Solid	Total BTEX	
880-22438-24	S6 9'	Total/NA	Solid	Total BTEX	
880-22438-25	S7 1'	Total/NA	Solid	Total BTEX	
880-22438-26	S7 3'	Total/NA	Solid	Total BTEX	
880-22438-27	S7 5'	Total/NA	Solid	Total BTEX	
880-22438-28	S7 9'	Total/NA	Solid	Total BTEX	
880-22438-29	S9 1'	Total/NA	Solid	Total BTEX	
880-22438-30	S9 3'	Total/NA	Solid	Total BTEX	
880-22438-31	S9 5'	Total/NA	Solid	Total BTEX	
880-22438-32	S9 9'	Total/NA	Solid	Total BTEX	
880-22438-33	S10 1'	Total/NA	Solid	Total BTEX	
880-22438-34	S10 3'	Total/NA	Solid	Total BTEX	
880-22438-35	S10 5'	Total/NA	Solid	Total BTEX	

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

Job ID: 880-22438-1
SDG: 22-0104-08

GC VOA (Continued)

Analysis Batch: 42233 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-36	S10 8'	Total/NA	Solid	Total BTEX	
880-22438-37	S11 1'	Total/NA	Solid	Total BTEX	
880-22438-38	S11 3'	Total/NA	Solid	Total BTEX	
880-22438-39	S11 5'	Total/NA	Solid	Total BTEX	
880-22438-40	S11 9'	Total/NA	Solid	Total BTEX	
880-22438-41	S13 1'	Total/NA	Solid	Total BTEX	
880-22438-42	S13 3'	Total/NA	Solid	Total BTEX	
880-22438-43	S13 5'	Total/NA	Solid	Total BTEX	
880-22438-44	S13 10'	Total/NA	Solid	Total BTEX	
880-22438-45	S-24 1'	Total/NA	Solid	Total BTEX	
880-22438-46	S-24 3'	Total/NA	Solid	Total BTEX	
880-22438-47	S-24 5'	Total/NA	Solid	Total BTEX	
880-22438-48	S-24 10'	Total/NA	Solid	Total BTEX	
880-22438-49	S-17 1'	Total/NA	Solid	Total BTEX	
880-22438-50	S-17 3'	Total/NA	Solid	Total BTEX	
880-22438-51	S-17 5'	Total/NA	Solid	Total BTEX	
880-22438-52	S-17 10'	Total/NA	Solid	Total BTEX	
880-22438-53	S-18 1'	Total/NA	Solid	Total BTEX	
880-22438-54	S-18 3'	Total/NA	Solid	Total BTEX	
880-22438-55	S-18 5'	Total/NA	Solid	Total BTEX	
880-22438-56	S-18 10'	Total/NA	Solid	Total BTEX	
880-22438-57	S-19 1'	Total/NA	Solid	Total BTEX	
880-22438-58	S-19 3'	Total/NA	Solid	Total BTEX	
880-22438-59	S-19 5'	Total/NA	Solid	Total BTEX	
880-22438-60	S-19 10'	Total/NA	Solid	Total BTEX	
880-22438-61	S-12 1'	Total/NA	Solid	Total BTEX	
880-22438-62	S-12 3'	Total/NA	Solid	Total BTEX	
880-22438-63	S-12 5'	Total/NA	Solid	Total BTEX	
880-22438-64	S-12 8'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-61	S-12 1'	Total/NA	Solid	8015NM Prep	
880-22438-62	S-12 3'	Total/NA	Solid	8015NM Prep	
880-22438-63	S-12 5'	Total/NA	Solid	8015NM Prep	
880-22438-64	S-12 8'	Total/NA	Solid	8015NM Prep	
MB 880-41386/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41386/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41386/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 41387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-1	S1 1'	Total/NA	Solid	8015NM Prep	
880-22438-2	S1 3'	Total/NA	Solid	8015NM Prep	
880-22438-3	S1 5'	Total/NA	Solid	8015NM Prep	
880-22438-4	S1 10'	Total/NA	Solid	8015NM Prep	
880-22438-5	S2 1'	Total/NA	Solid	8015NM Prep	
880-22438-6	S2 3'	Total/NA	Solid	8015NM Prep	
880-22438-7	S2 5'	Total/NA	Solid	8015NM Prep	

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Job ID: 880-22438-1
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GC Semi VOA (Continued)

Prep Batch: 41387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-8	S2 10'	Total/NA	Solid	8015NM Prep	
880-22438-9	S3 1'	Total/NA	Solid	8015NM Prep	
880-22438-10	S3 3'	Total/NA	Solid	8015NM Prep	
880-22438-11	S3 5'	Total/NA	Solid	8015NM Prep	
880-22438-12	S3 9'	Total/NA	Solid	8015NM Prep	
880-22438-13	S4 1'	Total/NA	Solid	8015NM Prep	
880-22438-14	S4 3'	Total/NA	Solid	8015NM Prep	
880-22438-15	S4 5'	Total/NA	Solid	8015NM Prep	
880-22438-16	S4 9'	Total/NA	Solid	8015NM Prep	
880-22438-17	S5 1'	Total/NA	Solid	8015NM Prep	
880-22438-18	S5 3'	Total/NA	Solid	8015NM Prep	
880-22438-19	S5 5'	Total/NA	Solid	8015NM Prep	
880-22438-20	S5 10'	Total/NA	Solid	8015NM Prep	
MB 880-41387/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41387/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41387/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22438-1 MS	S1 1'	Total/NA	Solid	8015NM Prep	
880-22438-1 MSD	S1 1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 41492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-21	S6 1'	Total/NA	Solid	8015NM Prep	
880-22438-22	S6 3'	Total/NA	Solid	8015NM Prep	
880-22438-23	S6 5'	Total/NA	Solid	8015NM Prep	
880-22438-24	S6 9'	Total/NA	Solid	8015NM Prep	
880-22438-25	S7 1'	Total/NA	Solid	8015NM Prep	
880-22438-26	S7 3'	Total/NA	Solid	8015NM Prep	
880-22438-27	S7 5'	Total/NA	Solid	8015NM Prep	
880-22438-28	S7 9'	Total/NA	Solid	8015NM Prep	
880-22438-29	S9 1'	Total/NA	Solid	8015NM Prep	
880-22438-30	S9 3'	Total/NA	Solid	8015NM Prep	
880-22438-31	S9 5'	Total/NA	Solid	8015NM Prep	
880-22438-32	S9 9'	Total/NA	Solid	8015NM Prep	
880-22438-33	S10 1'	Total/NA	Solid	8015NM Prep	
880-22438-34	S10 3'	Total/NA	Solid	8015NM Prep	
880-22438-35	S10 5'	Total/NA	Solid	8015NM Prep	
880-22438-36	S10 8'	Total/NA	Solid	8015NM Prep	
880-22438-37	S11 1'	Total/NA	Solid	8015NM Prep	
880-22438-38	S11 3'	Total/NA	Solid	8015NM Prep	
880-22438-39	S11 5'	Total/NA	Solid	8015NM Prep	
880-22438-40	S11 9'	Total/NA	Solid	8015NM Prep	
MB 880-41492/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41492/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41492/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22438-21 MS	S6 1'	Total/NA	Solid	8015NM Prep	
880-22438-21 MSD	S6 1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-1	S1 1'	Total/NA	Solid	8015B NM	41387
880-22438-2	S1 3'	Total/NA	Solid	8015B NM	41387

Eurofins Midland

QC Association Summary

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

Job ID: 880-22438-1
SDG: 22-0104-08

GC Semi VOA (Continued)

Analysis Batch: 41557 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-3	S1 5'	Total/NA	Solid	8015B NM	41387
880-22438-4	S1 10'	Total/NA	Solid	8015B NM	41387
880-22438-5	S2 1'	Total/NA	Solid	8015B NM	41387
880-22438-6	S2 3'	Total/NA	Solid	8015B NM	41387
880-22438-7	S2 5'	Total/NA	Solid	8015B NM	41387
880-22438-8	S2 10'	Total/NA	Solid	8015B NM	41387
880-22438-9	S3 1'	Total/NA	Solid	8015B NM	41387
880-22438-10	S3 3'	Total/NA	Solid	8015B NM	41387
880-22438-11	S3 5'	Total/NA	Solid	8015B NM	41387
880-22438-12	S3 9'	Total/NA	Solid	8015B NM	41387
880-22438-13	S4 1'	Total/NA	Solid	8015B NM	41387
880-22438-14	S4 3'	Total/NA	Solid	8015B NM	41387
880-22438-15	S4 5'	Total/NA	Solid	8015B NM	41387
880-22438-16	S4 9'	Total/NA	Solid	8015B NM	41387
880-22438-17	S5 1'	Total/NA	Solid	8015B NM	41387
880-22438-18	S5 3'	Total/NA	Solid	8015B NM	41387
880-22438-19	S5 5'	Total/NA	Solid	8015B NM	41387
880-22438-20	S5 10'	Total/NA	Solid	8015B NM	41387
880-22438-41	S13 1'	Total/NA	Solid	8015B NM	41576
880-22438-42	S13 3'	Total/NA	Solid	8015B NM	41576
880-22438-43	S13 5'	Total/NA	Solid	8015B NM	41576
880-22438-44	S13 10'	Total/NA	Solid	8015B NM	41576
880-22438-45	S-24 1'	Total/NA	Solid	8015B NM	41576
880-22438-46	S-24 3'	Total/NA	Solid	8015B NM	41576
880-22438-47	S-24 5'	Total/NA	Solid	8015B NM	41576
880-22438-48	S-24 10'	Total/NA	Solid	8015B NM	41576
880-22438-49	S-17 1'	Total/NA	Solid	8015B NM	41576
880-22438-50	S-17 3'	Total/NA	Solid	8015B NM	41576
880-22438-51	S-17 5'	Total/NA	Solid	8015B NM	41576
880-22438-52	S-17 10'	Total/NA	Solid	8015B NM	41576
880-22438-53	S-18 1'	Total/NA	Solid	8015B NM	41576
880-22438-54	S-18 3'	Total/NA	Solid	8015B NM	41576
880-22438-55	S-18 5'	Total/NA	Solid	8015B NM	41576
880-22438-56	S-18 10'	Total/NA	Solid	8015B NM	41576
880-22438-57	S-19 1'	Total/NA	Solid	8015B NM	41576
880-22438-58	S-19 3'	Total/NA	Solid	8015B NM	41576
880-22438-59	S-19 5'	Total/NA	Solid	8015B NM	41576
880-22438-60	S-19 10'	Total/NA	Solid	8015B NM	41576
MB 880-41387/1-A	Method Blank	Total/NA	Solid	8015B NM	41387
MB 880-41576/1-A	Method Blank	Total/NA	Solid	8015B NM	41576
LCS 880-41387/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41387
LCS 880-41576/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41576
LCSD 880-41387/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41387
LCSD 880-41576/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41576
880-22438-1 MS	S1 1'	Total/NA	Solid	8015B NM	41387
880-22438-1 MSD	S1 1'	Total/NA	Solid	8015B NM	41387
880-22438-41 MS	S13 1'	Total/NA	Solid	8015B NM	41576
880-22438-41 MSD	S13 1'	Total/NA	Solid	8015B NM	41576

Eurofins Midland

QC Association Summary

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

Job ID: 880-22438-1
SDG: 22-0104-08

GC Semi VOA

Analysis Batch: 41559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-21	S6 1'	Total/NA	Solid	8015B NM	41492
880-22438-22	S6 3'	Total/NA	Solid	8015B NM	41492
880-22438-23	S6 5'	Total/NA	Solid	8015B NM	41492
880-22438-24	S6 9'	Total/NA	Solid	8015B NM	41492
880-22438-25	S7 1'	Total/NA	Solid	8015B NM	41492
880-22438-26	S7 3'	Total/NA	Solid	8015B NM	41492
880-22438-27	S7 5'	Total/NA	Solid	8015B NM	41492
880-22438-28	S7 9'	Total/NA	Solid	8015B NM	41492
880-22438-29	S9 1'	Total/NA	Solid	8015B NM	41492
880-22438-30	S9 3'	Total/NA	Solid	8015B NM	41492
880-22438-31	S9 5'	Total/NA	Solid	8015B NM	41492
880-22438-32	S9 9'	Total/NA	Solid	8015B NM	41492
880-22438-33	S10 1'	Total/NA	Solid	8015B NM	41492
880-22438-34	S10 3'	Total/NA	Solid	8015B NM	41492
880-22438-35	S10 5'	Total/NA	Solid	8015B NM	41492
880-22438-36	S10 8'	Total/NA	Solid	8015B NM	41492
880-22438-37	S11 1'	Total/NA	Solid	8015B NM	41492
880-22438-38	S11 3'	Total/NA	Solid	8015B NM	41492
880-22438-39	S11 5'	Total/NA	Solid	8015B NM	41492
880-22438-40	S11 9'	Total/NA	Solid	8015B NM	41492
MB 880-41492/1-A	Method Blank	Total/NA	Solid	8015B NM	41492
LCS 880-41492/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41492
LCSD 880-41492/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41492
880-22438-21 MS	S6 1'	Total/NA	Solid	8015B NM	41492
880-22438-21 MSD	S6 1'	Total/NA	Solid	8015B NM	41492

Analysis Batch: 41561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-61	S-12 1'	Total/NA	Solid	8015B NM	41386
880-22438-62	S-12 3'	Total/NA	Solid	8015B NM	41386
880-22438-63	S-12 5'	Total/NA	Solid	8015B NM	41386
880-22438-64	S-12 8'	Total/NA	Solid	8015B NM	41386
MB 880-41386/1-A	Method Blank	Total/NA	Solid	8015B NM	41386
LCS 880-41386/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41386
LCSD 880-41386/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41386

Prep Batch: 41576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-41	S13 1'	Total/NA	Solid	8015NM Prep	
880-22438-42	S13 3'	Total/NA	Solid	8015NM Prep	
880-22438-43	S13 5'	Total/NA	Solid	8015NM Prep	
880-22438-44	S13 10'	Total/NA	Solid	8015NM Prep	
880-22438-45	S-24 1'	Total/NA	Solid	8015NM Prep	
880-22438-46	S-24 3'	Total/NA	Solid	8015NM Prep	
880-22438-47	S-24 5'	Total/NA	Solid	8015NM Prep	
880-22438-48	S-24 10'	Total/NA	Solid	8015NM Prep	
880-22438-49	S-17 1'	Total/NA	Solid	8015NM Prep	
880-22438-50	S-17 3'	Total/NA	Solid	8015NM Prep	
880-22438-51	S-17 5'	Total/NA	Solid	8015NM Prep	
880-22438-52	S-17 10'	Total/NA	Solid	8015NM Prep	
880-22438-53	S-18 1'	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

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

Job ID: 880-22438-1
SDG: 22-0104-08

GC Semi VOA (Continued)

Prep Batch: 41576 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-54	S-18 3'	Total/NA	Solid	8015NM Prep	
880-22438-55	S-18 5'	Total/NA	Solid	8015NM Prep	
880-22438-56	S-18 10'	Total/NA	Solid	8015NM Prep	
880-22438-57	S-19 1'	Total/NA	Solid	8015NM Prep	
880-22438-58	S-19 3'	Total/NA	Solid	8015NM Prep	
880-22438-59	S-19 5'	Total/NA	Solid	8015NM Prep	
880-22438-60	S-19 10'	Total/NA	Solid	8015NM Prep	
MB 880-41576/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41576/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41576/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22438-41 MS	S13 1'	Total/NA	Solid	8015NM Prep	
880-22438-41 MSD	S13 1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-1	S1 1'	Total/NA	Solid	8015 NM	
880-22438-2	S1 3'	Total/NA	Solid	8015 NM	
880-22438-3	S1 5'	Total/NA	Solid	8015 NM	
880-22438-4	S1 10'	Total/NA	Solid	8015 NM	
880-22438-5	S2 1'	Total/NA	Solid	8015 NM	
880-22438-6	S2 3'	Total/NA	Solid	8015 NM	
880-22438-7	S2 5'	Total/NA	Solid	8015 NM	
880-22438-8	S2 10'	Total/NA	Solid	8015 NM	
880-22438-9	S3 1'	Total/NA	Solid	8015 NM	
880-22438-10	S3 3'	Total/NA	Solid	8015 NM	
880-22438-11	S3 5'	Total/NA	Solid	8015 NM	
880-22438-12	S3 9'	Total/NA	Solid	8015 NM	
880-22438-13	S4 1'	Total/NA	Solid	8015 NM	
880-22438-14	S4 3'	Total/NA	Solid	8015 NM	
880-22438-15	S4 5'	Total/NA	Solid	8015 NM	
880-22438-16	S4 9'	Total/NA	Solid	8015 NM	
880-22438-17	S5 1'	Total/NA	Solid	8015 NM	
880-22438-18	S5 3'	Total/NA	Solid	8015 NM	
880-22438-19	S5 5'	Total/NA	Solid	8015 NM	
880-22438-20	S5 10'	Total/NA	Solid	8015 NM	
880-22438-21	S6 1'	Total/NA	Solid	8015 NM	
880-22438-22	S6 3'	Total/NA	Solid	8015 NM	
880-22438-23	S6 5'	Total/NA	Solid	8015 NM	
880-22438-24	S6 9'	Total/NA	Solid	8015 NM	
880-22438-25	S7 1'	Total/NA	Solid	8015 NM	
880-22438-26	S7 3'	Total/NA	Solid	8015 NM	
880-22438-27	S7 5'	Total/NA	Solid	8015 NM	
880-22438-28	S7 9'	Total/NA	Solid	8015 NM	
880-22438-29	S9 1'	Total/NA	Solid	8015 NM	
880-22438-30	S9 3'	Total/NA	Solid	8015 NM	
880-22438-31	S9 5'	Total/NA	Solid	8015 NM	
880-22438-32	S9 9'	Total/NA	Solid	8015 NM	
880-22438-33	S10 1'	Total/NA	Solid	8015 NM	
880-22438-34	S10 3'	Total/NA	Solid	8015 NM	
880-22438-35	S10 5'	Total/NA	Solid	8015 NM	
880-22438-36	S10 8'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

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

Job ID: 880-22438-1
SDG: 22-0104-08

GC Semi VOA (Continued)

Analysis Batch: 41709 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-37	S11 1'	Total/NA	Solid	8015 NM	
880-22438-38	S11 3'	Total/NA	Solid	8015 NM	
880-22438-39	S11 5'	Total/NA	Solid	8015 NM	
880-22438-40	S11 9'	Total/NA	Solid	8015 NM	
880-22438-41	S13 1'	Total/NA	Solid	8015 NM	
880-22438-42	S13 3'	Total/NA	Solid	8015 NM	
880-22438-43	S13 5'	Total/NA	Solid	8015 NM	
880-22438-44	S13 10'	Total/NA	Solid	8015 NM	
880-22438-45	S-24 1'	Total/NA	Solid	8015 NM	
880-22438-46	S-24 3'	Total/NA	Solid	8015 NM	
880-22438-47	S-24 5'	Total/NA	Solid	8015 NM	
880-22438-48	S-24 10'	Total/NA	Solid	8015 NM	
880-22438-49	S-17 1'	Total/NA	Solid	8015 NM	
880-22438-50	S-17 3'	Total/NA	Solid	8015 NM	
880-22438-51	S-17 5'	Total/NA	Solid	8015 NM	
880-22438-52	S-17 10'	Total/NA	Solid	8015 NM	
880-22438-53	S-18 1'	Total/NA	Solid	8015 NM	
880-22438-54	S-18 3'	Total/NA	Solid	8015 NM	
880-22438-55	S-18 5'	Total/NA	Solid	8015 NM	
880-22438-56	S-18 10'	Total/NA	Solid	8015 NM	
880-22438-57	S-19 1'	Total/NA	Solid	8015 NM	
880-22438-58	S-19 3'	Total/NA	Solid	8015 NM	
880-22438-59	S-19 5'	Total/NA	Solid	8015 NM	
880-22438-60	S-19 10'	Total/NA	Solid	8015 NM	
880-22438-61	S-12 1'	Total/NA	Solid	8015 NM	
880-22438-62	S-12 3'	Total/NA	Solid	8015 NM	
880-22438-63	S-12 5'	Total/NA	Solid	8015 NM	
880-22438-64	S-12 8'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-1	S1 1'	Soluble	Solid	DI Leach	
880-22438-2	S1 3'	Soluble	Solid	DI Leach	
880-22438-3	S1 5'	Soluble	Solid	DI Leach	
880-22438-4	S1 10'	Soluble	Solid	DI Leach	
880-22438-5	S2 1'	Soluble	Solid	DI Leach	
880-22438-6	S2 3'	Soluble	Solid	DI Leach	
880-22438-7	S2 5'	Soluble	Solid	DI Leach	
880-22438-8	S2 10'	Soluble	Solid	DI Leach	
880-22438-9	S3 1'	Soluble	Solid	DI Leach	
880-22438-10	S3 3'	Soluble	Solid	DI Leach	
880-22438-11	S3 5'	Soluble	Solid	DI Leach	
880-22438-12	S3 9'	Soluble	Solid	DI Leach	
880-22438-13	S4 1'	Soluble	Solid	DI Leach	
880-22438-14	S4 3'	Soluble	Solid	DI Leach	
880-22438-15	S4 5'	Soluble	Solid	DI Leach	
880-22438-16	S4 9'	Soluble	Solid	DI Leach	
880-22438-17	S5 1'	Soluble	Solid	DI Leach	
880-22438-18	S5 3'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

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

Job ID: 880-22438-1
SDG: 22-0104-08

HPLC/IC (Continued)

Leach Batch: 41368 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-19	S5 5'	Soluble	Solid	DI Leach	
880-22438-20	S5 10'	Soluble	Solid	DI Leach	
MB 880-41368/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41368/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41368/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22438-1 MS	S1 1'	Soluble	Solid	DI Leach	
880-22438-1 MSD	S1 1'	Soluble	Solid	DI Leach	
880-22438-11 MS	S3 5'	Soluble	Solid	DI Leach	
880-22438-11 MSD	S3 5'	Soluble	Solid	DI Leach	

Leach Batch: 41369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-21	S6 1'	Soluble	Solid	DI Leach	
880-22438-22	S6 3'	Soluble	Solid	DI Leach	
880-22438-23	S6 5'	Soluble	Solid	DI Leach	
880-22438-24	S6 9'	Soluble	Solid	DI Leach	
880-22438-25	S7 1'	Soluble	Solid	DI Leach	
880-22438-26	S7 3'	Soluble	Solid	DI Leach	
880-22438-27	S7 5'	Soluble	Solid	DI Leach	
880-22438-28	S7 9'	Soluble	Solid	DI Leach	
880-22438-29	S9 1'	Soluble	Solid	DI Leach	
880-22438-30	S9 3'	Soluble	Solid	DI Leach	
880-22438-31	S9 5'	Soluble	Solid	DI Leach	
880-22438-32	S9 9'	Soluble	Solid	DI Leach	
880-22438-33	S10 1'	Soluble	Solid	DI Leach	
880-22438-34	S10 3'	Soluble	Solid	DI Leach	
880-22438-35	S10 5'	Soluble	Solid	DI Leach	
880-22438-36	S10 8'	Soluble	Solid	DI Leach	
880-22438-37	S11 1'	Soluble	Solid	DI Leach	
880-22438-38	S11 3'	Soluble	Solid	DI Leach	
880-22438-39	S11 5'	Soluble	Solid	DI Leach	
880-22438-40	S11 9'	Soluble	Solid	DI Leach	
MB 880-41369/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41369/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41369/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22438-21 MS	S6 1'	Soluble	Solid	DI Leach	
880-22438-21 MSD	S6 1'	Soluble	Solid	DI Leach	
880-22438-31 MS	S9 5'	Soluble	Solid	DI Leach	
880-22438-31 MSD	S9 5'	Soluble	Solid	DI Leach	

Leach Batch: 41370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-41	S13 1'	Soluble	Solid	DI Leach	
880-22438-42	S13 3'	Soluble	Solid	DI Leach	
880-22438-43	S13 5'	Soluble	Solid	DI Leach	
880-22438-44	S13 10'	Soluble	Solid	DI Leach	
880-22438-45	S-24 1'	Soluble	Solid	DI Leach	
880-22438-46	S-24 3'	Soluble	Solid	DI Leach	
880-22438-47	S-24 5'	Soluble	Solid	DI Leach	
880-22438-48	S-24 10'	Soluble	Solid	DI Leach	
880-22438-49	S-17 1'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

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

Job ID: 880-22438-1
SDG: 22-0104-08

HPLC/IC (Continued)

Leach Batch: 41370 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-50	S-17 3'	Soluble	Solid	DI Leach	
880-22438-51	S-17 5'	Soluble	Solid	DI Leach	
880-22438-52	S-17 10'	Soluble	Solid	DI Leach	
880-22438-53	S-18 1'	Soluble	Solid	DI Leach	
880-22438-54	S-18 3'	Soluble	Solid	DI Leach	
880-22438-55	S-18 5'	Soluble	Solid	DI Leach	
880-22438-56	S-18 10'	Soluble	Solid	DI Leach	
880-22438-57	S-19 1'	Soluble	Solid	DI Leach	
880-22438-58	S-19 3'	Soluble	Solid	DI Leach	
880-22438-59	S-19 5'	Soluble	Solid	DI Leach	
880-22438-60	S-19 10'	Soluble	Solid	DI Leach	
MB 880-41370/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41370/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41370/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22438-41 MS	S13 1'	Soluble	Solid	DI Leach	
880-22438-41 MSD	S13 1'	Soluble	Solid	DI Leach	
880-22438-51 MS	S-17 5'	Soluble	Solid	DI Leach	
880-22438-51 MSD	S-17 5'	Soluble	Solid	DI Leach	

Leach Batch: 41371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-61	S-12 1'	Soluble	Solid	DI Leach	
880-22438-62	S-12 3'	Soluble	Solid	DI Leach	
880-22438-63	S-12 5'	Soluble	Solid	DI Leach	
880-22438-64	S-12 8'	Soluble	Solid	DI Leach	
MB 880-41371/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41371/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41371/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22438-61 MS	S-12 1'	Soluble	Solid	DI Leach	
880-22438-61 MSD	S-12 1'	Soluble	Solid	DI Leach	

Analysis Batch: 41737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-41	S13 1'	Soluble	Solid	300.0	41370
880-22438-42	S13 3'	Soluble	Solid	300.0	41370
880-22438-43	S13 5'	Soluble	Solid	300.0	41370
880-22438-44	S13 10'	Soluble	Solid	300.0	41370
880-22438-45	S-24 1'	Soluble	Solid	300.0	41370
880-22438-46	S-24 3'	Soluble	Solid	300.0	41370
880-22438-47	S-24 5'	Soluble	Solid	300.0	41370
880-22438-48	S-24 10'	Soluble	Solid	300.0	41370
880-22438-49	S-17 1'	Soluble	Solid	300.0	41370
880-22438-50	S-17 3'	Soluble	Solid	300.0	41370
880-22438-51	S-17 5'	Soluble	Solid	300.0	41370
880-22438-52	S-17 10'	Soluble	Solid	300.0	41370
880-22438-53	S-18 1'	Soluble	Solid	300.0	41370
880-22438-54	S-18 3'	Soluble	Solid	300.0	41370
880-22438-55	S-18 5'	Soluble	Solid	300.0	41370
880-22438-56	S-18 10'	Soluble	Solid	300.0	41370
880-22438-57	S-19 1'	Soluble	Solid	300.0	41370
880-22438-58	S-19 3'	Soluble	Solid	300.0	41370

Eurofins Midland

QC Association Summary

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

Job ID: 880-22438-1
SDG: 22-0104-08

HPLC/IC (Continued)

Analysis Batch: 41737 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-59	S-19 5'	Soluble	Solid	300.0	41370
880-22438-60	S-19 10'	Soluble	Solid	300.0	41370
MB 880-41370/1-A	Method Blank	Soluble	Solid	300.0	41370
LCS 880-41370/2-A	Lab Control Sample	Soluble	Solid	300.0	41370
LCSD 880-41370/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41370
880-22438-41 MS	S13 1'	Soluble	Solid	300.0	41370
880-22438-41 MSD	S13 1'	Soluble	Solid	300.0	41370
880-22438-51 MS	S-17 5'	Soluble	Solid	300.0	41370
880-22438-51 MSD	S-17 5'	Soluble	Solid	300.0	41370

Analysis Batch: 41858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-1	S1 1'	Soluble	Solid	300.0	41368
880-22438-2	S1 3'	Soluble	Solid	300.0	41368
880-22438-3	S1 5'	Soluble	Solid	300.0	41368
880-22438-4	S1 10'	Soluble	Solid	300.0	41368
880-22438-5	S2 1'	Soluble	Solid	300.0	41368
880-22438-6	S2 3'	Soluble	Solid	300.0	41368
880-22438-7	S2 5'	Soluble	Solid	300.0	41368
880-22438-8	S2 10'	Soluble	Solid	300.0	41368
880-22438-9	S3 1'	Soluble	Solid	300.0	41368
880-22438-10	S3 3'	Soluble	Solid	300.0	41368
880-22438-11	S3 5'	Soluble	Solid	300.0	41368
880-22438-12	S3 9'	Soluble	Solid	300.0	41368
880-22438-13	S4 1'	Soluble	Solid	300.0	41368
880-22438-14	S4 3'	Soluble	Solid	300.0	41368
880-22438-15	S4 5'	Soluble	Solid	300.0	41368
880-22438-16	S4 9'	Soluble	Solid	300.0	41368
880-22438-17	S5 1'	Soluble	Solid	300.0	41368
880-22438-18	S5 3'	Soluble	Solid	300.0	41368
880-22438-19	S5 5'	Soluble	Solid	300.0	41368
880-22438-20	S5 10'	Soluble	Solid	300.0	41368
MB 880-41368/1-A	Method Blank	Soluble	Solid	300.0	41368
LCS 880-41368/2-A	Lab Control Sample	Soluble	Solid	300.0	41368
LCSD 880-41368/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41368
880-22438-1 MS	S1 1'	Soluble	Solid	300.0	41368
880-22438-1 MSD	S1 1'	Soluble	Solid	300.0	41368
880-22438-11 MS	S3 5'	Soluble	Solid	300.0	41368
880-22438-11 MSD	S3 5'	Soluble	Solid	300.0	41368

Analysis Batch: 41859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-21	S6 1'	Soluble	Solid	300.0	41369
880-22438-22	S6 3'	Soluble	Solid	300.0	41369
880-22438-23	S6 5'	Soluble	Solid	300.0	41369
880-22438-24	S6 9'	Soluble	Solid	300.0	41369
880-22438-25	S7 1'	Soluble	Solid	300.0	41369
880-22438-26	S7 3'	Soluble	Solid	300.0	41369
880-22438-27	S7 5'	Soluble	Solid	300.0	41369
880-22438-28	S7 9'	Soluble	Solid	300.0	41369
880-22438-29	S9 1'	Soluble	Solid	300.0	41369

Eurofins Midland

QC Association Summary

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

Job ID: 880-22438-1
SDG: 22-0104-08

HPLC/IC (Continued)

Analysis Batch: 41859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-30	S9 3'	Soluble	Solid	300.0	41369
880-22438-31	S9 5'	Soluble	Solid	300.0	41369
880-22438-32	S9 9'	Soluble	Solid	300.0	41369
880-22438-33	S10 1'	Soluble	Solid	300.0	41369
880-22438-34	S10 3'	Soluble	Solid	300.0	41369
880-22438-35	S10 5'	Soluble	Solid	300.0	41369
880-22438-36	S10 8'	Soluble	Solid	300.0	41369
880-22438-37	S11 1'	Soluble	Solid	300.0	41369
880-22438-38	S11 3'	Soluble	Solid	300.0	41369
880-22438-39	S11 5'	Soluble	Solid	300.0	41369
880-22438-40	S11 9'	Soluble	Solid	300.0	41369
MB 880-41369/1-A	Method Blank	Soluble	Solid	300.0	41369
LCS 880-41369/2-A	Lab Control Sample	Soluble	Solid	300.0	41369
LCSD 880-41369/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41369
880-22438-21 MS	S6 1'	Soluble	Solid	300.0	41369
880-22438-21 MSD	S6 1'	Soluble	Solid	300.0	41369
880-22438-31 MS	S9 5'	Soluble	Solid	300.0	41369
880-22438-31 MSD	S9 5'	Soluble	Solid	300.0	41369

Analysis Batch: 41860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22438-61	S-12 1'	Soluble	Solid	300.0	41371
880-22438-62	S-12 3'	Soluble	Solid	300.0	41371
880-22438-63	S-12 5'	Soluble	Solid	300.0	41371
880-22438-64	S-12 8'	Soluble	Solid	300.0	41371
MB 880-41371/1-A	Method Blank	Soluble	Solid	300.0	41371
LCS 880-41371/2-A	Lab Control Sample	Soluble	Solid	300.0	41371
LCSD 880-41371/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41371
880-22438-61 MS	S-12 1'	Soluble	Solid	300.0	41371
880-22438-61 MSD	S-12 1'	Soluble	Solid	300.0	41371

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S1 1'

Lab Sample ID: 880-22438-1

Date Collected: 12/06/22 13:20

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/18/22 19:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 10:54	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 20:12	CH	EET MID

Client Sample ID: S1 3'

Lab Sample ID: 880-22438-2

Date Collected: 12/06/22 13:21

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/18/22 19:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 12:00	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		10			41858	12/14/22 20:32	CH	EET MID

Client Sample ID: S1 5'

Lab Sample ID: 880-22438-3

Date Collected: 12/06/22 13:22

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/18/22 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 12:22	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		5			41858	12/14/22 20:39	CH	EET MID

Client Sample ID: S1 10'

Lab Sample ID: 880-22438-4

Date Collected: 12/06/22 13:30

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/18/22 20:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S1 10'

Lab Sample ID: 880-22438-4

Date Collected: 12/06/22 13:30

Matrix: Solid

Date Received: 12/07/22 13:25

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			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 12:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 20:45	CH	EET MID

Client Sample ID: S2 1'

Lab Sample ID: 880-22438-5

Date Collected: 12/06/22 12:53

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/18/22 20:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 13:06	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 20:52	CH	EET MID

Client Sample ID: S2 3'

Lab Sample ID: 880-22438-6

Date Collected: 12/06/22 12:54

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/18/22 20:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 13:28	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 21:12	CH	EET MID

Client Sample ID: S2 5'

Lab Sample ID: 880-22438-7

Date Collected: 12/06/22 12:55

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/18/22 21:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 13:50	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S2 5'

Lab Sample ID: 880-22438-7

Date Collected: 12/06/22 12:55

Matrix: Solid

Date Received: 12/07/22 13:25

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	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 21:18	CH	EET MID

Client Sample ID: S2 10'

Lab Sample ID: 880-22438-8

Date Collected: 12/06/22 13:05

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/18/22 21:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 14:11	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 21:25	CH	EET MID

Client Sample ID: S3 1'

Lab Sample ID: 880-22438-9

Date Collected: 12/06/22 12:20

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/18/22 21:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 14:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		5			41858	12/14/22 21:32	CH	EET MID

Client Sample ID: S3 3'

Lab Sample ID: 880-22438-10

Date Collected: 12/06/22 12:21

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/18/22 22:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 14:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		5			41858	12/14/22 21:38	CH	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S3 5'

Lab Sample ID: 880-22438-11

Date Collected: 12/06/22 12:22

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/18/22 23:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 15:40	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 21:45	CH	EET MID

Client Sample ID: S3 9'

Lab Sample ID: 880-22438-12

Date Collected: 12/06/22 12:35

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/18/22 23:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 16:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 22:05	CH	EET MID

Client Sample ID: S4 1'

Lab Sample ID: 880-22438-13

Date Collected: 12/06/22 10:50

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/19/22 00:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 16:24	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 22:11	CH	EET MID

Client Sample ID: S4 3'

Lab Sample ID: 880-22438-14

Date Collected: 12/06/22 10:51

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/19/22 00:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S4 3'

Lab Sample ID: 880-22438-14

Date Collected: 12/06/22 10:51

Matrix: Solid

Date Received: 12/07/22 13:25

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			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 16:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 22:31	CH	EET MID

Client Sample ID: S4 5'

Lab Sample ID: 880-22438-15

Date Collected: 12/06/22 10:52

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/19/22 00:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 17:08	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		10			41858	12/14/22 22:38	CH	EET MID

Client Sample ID: S4 9'

Lab Sample ID: 880-22438-16

Date Collected: 12/06/22 10:53

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/19/22 01:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 17:30	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 22:45	CH	EET MID

Client Sample ID: S5 1'

Lab Sample ID: 880-22438-17

Date Collected: 12/06/22 11:23

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/19/22 01:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 17:52	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S5 1'

Lab Sample ID: 880-22438-17

Date Collected: 12/06/22 11:23

Matrix: Solid

Date Received: 12/07/22 13:25

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	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 22:51	CH	EET MID

Client Sample ID: S5 3'

Lab Sample ID: 880-22438-18

Date Collected: 12/06/22 11:24

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/19/22 01:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 18:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 22:58	CH	EET MID

Client Sample ID: S5 5'

Lab Sample ID: 880-22438-19

Date Collected: 12/06/22 11:25

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/19/22 02:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 18:36	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 23:04	CH	EET MID

Client Sample ID: S5 10'

Lab Sample ID: 880-22438-20

Date Collected: 12/06/22 11:40

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42018	12/16/22 10:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41993	12/19/22 02:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41387	12/08/22 15:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 18:57	SM	EET MID
Soluble	Leach	DI Leach			495 g	50 mL	41368	12/08/22 12:18	KS	EET MID
Soluble	Analysis	300.0		1			41858	12/14/22 23:11	CH	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S6 1'

Lab Sample ID: 880-22438-21

Date Collected: 12/06/22 11:55

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 03:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 11:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 10:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 08:22	CH	EET MID

Client Sample ID: S6 3'

Lab Sample ID: 880-22438-22

Date Collected: 12/06/22 11:56

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 03:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 11:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 12:00	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		10			41859	12/15/22 08:44	CH	EET MID

Client Sample ID: S6 5'

Lab Sample ID: 880-22438-23

Date Collected: 12/06/22 11:57

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 04:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 11:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 12:22	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		10			41859	12/15/22 08:51	CH	EET MID

Client Sample ID: S6 9'

Lab Sample ID: 880-22438-24

Date Collected: 12/06/22 12:10

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 04:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 11:01	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S6 9'

Lab Sample ID: 880-22438-24

Date Collected: 12/06/22 12:10

Matrix: Solid

Date Received: 12/07/22 13:25

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			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 12:44	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 08:58	CH	EET MID

Client Sample ID: S7 1'

Lab Sample ID: 880-22438-25

Date Collected: 12/06/22 13:45

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 04:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 11:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 13:06	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		5			41859	12/15/22 09:05	CH	EET MID

Client Sample ID: S7 3'

Lab Sample ID: 880-22438-26

Date Collected: 12/06/22 13:46

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 05:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 11:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 13:28	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		5			41859	12/15/22 09:27	CH	EET MID

Client Sample ID: S7 5'

Lab Sample ID: 880-22438-27

Date Collected: 12/06/22 13:47

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 05:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 11:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 13:50	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S7 5'

Lab Sample ID: 880-22438-27

Date Collected: 12/06/22 13:47

Matrix: Solid

Date Received: 12/07/22 13:25

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	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 09:34	CH	EET MID

Client Sample ID: S7 9'

Lab Sample ID: 880-22438-28

Date Collected: 12/06/22 13:59

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 06:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 11:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 14:11	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 09:41	CH	EET MID

Client Sample ID: S9 1'

Lab Sample ID: 880-22438-29

Date Collected: 12/06/22 10:15

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 06:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 11:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 14:33	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 09:49	CH	EET MID

Client Sample ID: S9 3'

Lab Sample ID: 880-22438-30

Date Collected: 12/06/22 10:16

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 06:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 11:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 14:56	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 09:56	CH	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S9 5'

Lab Sample ID: 880-22438-31

Date Collected: 12/06/22 10:17

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 10:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 11:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 15:40	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 10:03	CH	EET MID

Client Sample ID: S9 9'

Lab Sample ID: 880-22438-32

Date Collected: 12/06/22 10:30

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 10:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 12:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 16:02	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 10:25	CH	EET MID

Client Sample ID: S10 1'

Lab Sample ID: 880-22438-33

Date Collected: 12/06/22 09:40

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 11:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 12:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 16:24	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		5			41859	12/15/22 10:32	CH	EET MID

Client Sample ID: S10 3'

Lab Sample ID: 880-22438-34

Date Collected: 12/06/22 09:41

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 11:31	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 12:24	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S10 3'

Lab Sample ID: 880-22438-34

Date Collected: 12/06/22 09:41

Matrix: Solid

Date Received: 12/07/22 13:25

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			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 16:46	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 10:54	CH	EET MID

Client Sample ID: S10 5'

Lab Sample ID: 880-22438-35

Date Collected: 12/06/22 09:42

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 11:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 12:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 17:08	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 11:01	CH	EET MID

Client Sample ID: S10 8'

Lab Sample ID: 880-22438-36

Date Collected: 12/06/22 09:55

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 12:12	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 12:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 17:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 11:08	CH	EET MID

Client Sample ID: S11 1'

Lab Sample ID: 880-22438-37

Date Collected: 12/06/22 08:30

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 12:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 14:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 17:52	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S11 1'

Lab Sample ID: 880-22438-37

Date Collected: 12/06/22 08:30

Matrix: Solid

Date Received: 12/07/22 13:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 11:15	CH	EET MID

Client Sample ID: S11 3'

Lab Sample ID: 880-22438-38

Date Collected: 12/06/22 08:31

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 12:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 14:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 18:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 11:23	CH	EET MID

Client Sample ID: S11 5'

Lab Sample ID: 880-22438-39

Date Collected: 12/06/22 08:32

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 13:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 14:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 18:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 11:30	CH	EET MID

Client Sample ID: S11 9'

Lab Sample ID: 880-22438-40

Date Collected: 12/06/22 08:45

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42019	12/16/22 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 13:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/20/22 14:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41492	12/09/22 15:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41559	12/12/22 18:57	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41369	12/08/22 12:19	KS	EET MID
Soluble	Analysis	300.0		1			41859	12/15/22 11:37	CH	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S13 1'

Lab Sample ID: 880-22438-41

Date Collected: 12/06/22 08:50

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42020	12/16/22 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 21:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/21/22 12:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 20:47	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 02:10	CH	EET MID

Client Sample ID: S13 3'

Lab Sample ID: 880-22438-42

Date Collected: 12/06/22 08:51

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42020	12/16/22 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 21:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/21/22 12:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 21:53	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 02:32	CH	EET MID

Client Sample ID: S13 5'

Lab Sample ID: 880-22438-43

Date Collected: 12/06/22 08:52

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42020	12/16/22 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 22:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/21/22 12:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 22:15	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 02:40	CH	EET MID

Client Sample ID: S13 10'

Lab Sample ID: 880-22438-44

Date Collected: 12/06/22 09:00

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42020	12/16/22 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 22:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/21/22 12:16	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S13 10'

Lab Sample ID: 880-22438-44

Date Collected: 12/06/22 09:00

Matrix: Solid

Date Received: 12/07/22 13:25

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			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 22:37	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 02:47	CH	EET MID

Client Sample ID: S-24 1'

Lab Sample ID: 880-22438-45

Date Collected: 12/06/22 09:15

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42020	12/16/22 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 22:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/21/22 12:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 22:59	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 02:55	CH	EET MID

Client Sample ID: S-24 3'

Lab Sample ID: 880-22438-46

Date Collected: 12/06/22 09:16

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42020	12/16/22 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 23:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/21/22 12:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 23:21	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 03:18	CH	EET MID

Client Sample ID: S-24 5'

Lab Sample ID: 880-22438-47

Date Collected: 12/06/22 09:17

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42020	12/16/22 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 23:24	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/21/22 12:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/12/22 23:43	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-24 5'

Lab Sample ID: 880-22438-47

Date Collected: 12/06/22 09:17

Matrix: Solid

Date Received: 12/07/22 13:25

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	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 03:25	CH	EET MID

Client Sample ID: S-24 10'

Lab Sample ID: 880-22438-48

Date Collected: 12/06/22 09:30

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	42020	12/16/22 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42181	12/20/22 23:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/21/22 12:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/13/22 00:04	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 03:33	CH	EET MID

Client Sample ID: S-17 1'

Lab Sample ID: 880-22438-49

Date Collected: 12/05/22 14:00

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41920	12/15/22 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/17/22 08:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/13/22 00:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	41737	12/14/22 03:40	CH	EET MID

Client Sample ID: S-17 3'

Lab Sample ID: 880-22438-50

Date Collected: 12/05/22 14:10

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41920	12/15/22 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/17/22 09:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/13/22 00:48	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 03:48	CH	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-17 5'

Lab Sample ID: 880-22438-51

Date Collected: 12/05/22 14:20

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41920	12/15/22 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/17/22 09:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/13/22 01:32	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 03:55	CH	EET MID

Client Sample ID: S-17 10'

Lab Sample ID: 880-22438-52

Date Collected: 12/05/22 14:30

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41920	12/15/22 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/17/22 10:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/13/22 01:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 04:18	CH	EET MID

Client Sample ID: S-18 1'

Lab Sample ID: 880-22438-53

Date Collected: 12/05/22 14:40

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41920	12/15/22 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/17/22 10:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/13/22 02:17	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	41737	12/14/22 04:26	CH	EET MID

Client Sample ID: S-18 3'

Lab Sample ID: 880-22438-54

Date Collected: 12/05/22 14:50

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41920	12/15/22 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/17/22 10:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 17:14	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-18 3'

Lab Sample ID: 880-22438-54

Date Collected: 12/05/22 14:50

Matrix: Solid

Date Received: 12/07/22 13:25

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			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/13/22 02:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 04:48	CH	EET MID

Client Sample ID: S-18 5'

Lab Sample ID: 880-22438-55

Date Collected: 12/05/22 15:00

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41920	12/15/22 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/17/22 11:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/13/22 03:01	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 04:56	CH	EET MID

Client Sample ID: S-18 10'

Lab Sample ID: 880-22438-56

Date Collected: 12/05/22 15:10

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41920	12/15/22 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/17/22 13:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/13/22 03:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 05:03	CH	EET MID

Client Sample ID: S-19 1'

Lab Sample ID: 880-22438-57

Date Collected: 12/05/22 15:20

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41920	12/15/22 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/17/22 13:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/13/22 03:44	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-19 1'

Lab Sample ID: 880-22438-57

Date Collected: 12/05/22 15:20

Matrix: Solid

Date Received: 12/07/22 13:25

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	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 05:11	CH	EET MID

Client Sample ID: S-19 3'

Lab Sample ID: 880-22438-58

Date Collected: 12/05/22 15:30

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41920	12/15/22 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/17/22 14:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/13/22 04:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 05:18	CH	EET MID

Client Sample ID: S-19 5'

Lab Sample ID: 880-22438-59

Date Collected: 12/05/22 15:40

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41920	12/15/22 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/17/22 14:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/13/22 04:28	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 05:26	CH	EET MID

Client Sample ID: S-19 10'

Lab Sample ID: 880-22438-60

Date Collected: 12/05/22 15:50

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41920	12/15/22 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/17/22 15:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 10:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41576	12/12/22 09:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41557	12/13/22 04:50	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41370	12/08/22 12:21	KS	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	41737	12/14/22 05:33	CH	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-12 1'

Lab Sample ID: 880-22438-61

Date Collected: 12/05/22 16:00

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41920	12/15/22 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41992	12/17/22 15:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 17:10	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41371	12/08/22 12:22	KS	EET MID
Soluble	Analysis	300.0		5			41860	12/15/22 00:04	CH	EET MID

Client Sample ID: S-12 3'

Lab Sample ID: 880-22438-62

Date Collected: 12/05/22 16:10

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41922	12/15/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/17/22 06:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 17:31	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41371	12/08/22 12:22	KS	EET MID
Soluble	Analysis	300.0		1			41860	12/15/22 00:24	CH	EET MID

Client Sample ID: S-12 5'

Lab Sample ID: 880-22438-63

Date Collected: 12/05/22 16:20

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41922	12/15/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/17/22 06:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			41709	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 17:52	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41371	12/08/22 12:22	KS	EET MID
Soluble	Analysis	300.0		1			41860	12/15/22 00:31	CH	EET MID

Client Sample ID: S-12 8'

Lab Sample ID: 880-22438-64

Date Collected: 12/05/22 16:30

Matrix: Solid

Date Received: 12/07/22 13:25

Prep 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	41922	12/15/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41994	12/17/22 07:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42233	12/19/22 16:02	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22438-1
SDG: 22-0104-08

Client Sample ID: S-12 8'
Date Collected: 12/05/22 16:30
Date Received: 12/07/22 13:25

Lab Sample ID: 880-22438-64
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41709	12/13/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41386	12/08/22 15:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41561	12/12/22 18:13	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41371	12/08/22 12:22	KS	EET MID
Soluble	Analysis	300.0		1			41860	12/15/22 00:37	CH	EET MID

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

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

Accreditation/Certification Summary

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

Job ID: 880-22438-1
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	T104704400-22-25	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

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

Method Summary

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

Job ID: 880-22438-1
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 Pad 34

Job ID: 880-22438-1
SDG: 22-0104-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22438-1	S1 1'	Solid	12/06/22 13:20	12/07/22 13:25
880-22438-2	S1 3'	Solid	12/06/22 13:21	12/07/22 13:25
880-22438-3	S1 5'	Solid	12/06/22 13:22	12/07/22 13:25
880-22438-4	S1 10'	Solid	12/06/22 13:30	12/07/22 13:25
880-22438-5	S2 1'	Solid	12/06/22 12:53	12/07/22 13:25
880-22438-6	S2 3'	Solid	12/06/22 12:54	12/07/22 13:25
880-22438-7	S2 5'	Solid	12/06/22 12:55	12/07/22 13:25
880-22438-8	S2 10'	Solid	12/06/22 13:05	12/07/22 13:25
880-22438-9	S3 1'	Solid	12/06/22 12:20	12/07/22 13:25
880-22438-10	S3 3'	Solid	12/06/22 12:21	12/07/22 13:25
880-22438-11	S3 5'	Solid	12/06/22 12:22	12/07/22 13:25
880-22438-12	S3 9'	Solid	12/06/22 12:35	12/07/22 13:25
880-22438-13	S4 1'	Solid	12/06/22 10:50	12/07/22 13:25
880-22438-14	S4 3'	Solid	12/06/22 10:51	12/07/22 13:25
880-22438-15	S4 5'	Solid	12/06/22 10:52	12/07/22 13:25
880-22438-16	S4 9'	Solid	12/06/22 10:53	12/07/22 13:25
880-22438-17	S5 1'	Solid	12/06/22 11:23	12/07/22 13:25
880-22438-18	S5 3'	Solid	12/06/22 11:24	12/07/22 13:25
880-22438-19	S5 5'	Solid	12/06/22 11:25	12/07/22 13:25
880-22438-20	S5 10'	Solid	12/06/22 11:40	12/07/22 13:25
880-22438-21	S6 1'	Solid	12/06/22 11:55	12/07/22 13:25
880-22438-22	S6 3'	Solid	12/06/22 11:56	12/07/22 13:25
880-22438-23	S6 5'	Solid	12/06/22 11:57	12/07/22 13:25
880-22438-24	S6 9'	Solid	12/06/22 12:10	12/07/22 13:25
880-22438-25	S7 1'	Solid	12/06/22 13:45	12/07/22 13:25
880-22438-26	S7 3'	Solid	12/06/22 13:46	12/07/22 13:25
880-22438-27	S7 5'	Solid	12/06/22 13:47	12/07/22 13:25
880-22438-28	S7 9'	Solid	12/06/22 13:59	12/07/22 13:25
880-22438-29	S9 1'	Solid	12/06/22 10:15	12/07/22 13:25
880-22438-30	S9 3'	Solid	12/06/22 10:16	12/07/22 13:25
880-22438-31	S9 5'	Solid	12/06/22 10:17	12/07/22 13:25
880-22438-32	S9 9'	Solid	12/06/22 10:30	12/07/22 13:25
880-22438-33	S10 1'	Solid	12/06/22 09:40	12/07/22 13:25
880-22438-34	S10 3'	Solid	12/06/22 09:41	12/07/22 13:25
880-22438-35	S10 5'	Solid	12/06/22 09:42	12/07/22 13:25
880-22438-36	S10 8'	Solid	12/06/22 09:55	12/07/22 13:25
880-22438-37	S11 1'	Solid	12/06/22 08:30	12/07/22 13:25
880-22438-38	S11 3'	Solid	12/06/22 08:31	12/07/22 13:25
880-22438-39	S11 5'	Solid	12/06/22 08:32	12/07/22 13:25
880-22438-40	S11 9'	Solid	12/06/22 08:45	12/07/22 13:25
880-22438-41	S13 1'	Solid	12/06/22 08:50	12/07/22 13:25
880-22438-42	S13 3'	Solid	12/06/22 08:51	12/07/22 13:25
880-22438-43	S13 5'	Solid	12/06/22 08:52	12/07/22 13:25
880-22438-44	S13 10'	Solid	12/06/22 09:00	12/07/22 13:25
880-22438-45	S-24 1'	Solid	12/06/22 09:15	12/07/22 13:25
880-22438-46	S-24 3'	Solid	12/06/22 09:16	12/07/22 13:25
880-22438-47	S-24 5'	Solid	12/06/22 09:17	12/07/22 13:25
880-22438-48	S-24 10'	Solid	12/06/22 09:30	12/07/22 13:25
880-22438-49	S-17 1'	Solid	12/05/22 14:00	12/07/22 13:25
880-22438-50	S-17 3'	Solid	12/05/22 14:10	12/07/22 13:25
880-22438-51	S-17 5'	Solid	12/05/22 14:20	12/07/22 13:25
880-22438-52	S-17 10'	Solid	12/05/22 14:30	12/07/22 13:25
880-22438-53	S-18 1'	Solid	12/05/22 14:40	12/07/22 13:25
880-22438-54	S-18 3'	Solid	12/05/22 14:50	12/07/22 13:25

Sample Summary

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

Job ID: 880-22438-1
SDG: 22-0104-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22438-55	S-18 5'	Solid	12/05/22 15:00	12/07/22 13:25
880-22438-56	S-18 10'	Solid	12/05/22 15:10	12/07/22 13:25
880-22438-57	S-19 1'	Solid	12/05/22 15:20	12/07/22 13:25
880-22438-58	S-19 3'	Solid	12/05/22 15:30	12/07/22 13:25
880-22438-59	S-19 5'	Solid	12/05/22 15:40	12/07/22 13:25
880-22438-60	S-19 10'	Solid	12/05/22 15:50	12/07/22 13:25
880-22438-61	S-12 1'	Solid	12/05/22 16:00	12/07/22 13:25
880-22438-62	S-12 3'	Solid	12/05/22 16:10	12/07/22 13:25
880-22438-63	S-12 5'	Solid	12/05/22 16:20	12/07/22 13:25
880-22438-64	S-12 8'	Solid	12/05/22 16:30	12/07/22 13:25

22439 No. 2428

CHAIN-OF-CUSTODY

[illegible]

22430 No. 2429

No. 2429

CHAIN-OF-CUSTODY

[illegible]

22430 No. 2430

CHAIN-OF-CUSTODY

Arson & Associates, Inc. Environmental Consultants 507 N. Marrenfeld, Ste 202 Midland, TX 79701 432-687-0901				DATE: 12/7/12 PAGE 3 OF 5 PO#: LAB WORK ORDER#: PROJECT LOCATION OR NAME Sand Dunes Pad 3-1 LAI PROJECT #: 22-0104-08 COLLECTOR: JH + AB			
Data Reported to TRRP report? ☐ Yes ☒ No TIME ZONE Time zone/State MST/NA		S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER		PRESERVATION HCl HNO ₃ H ₂ SO ₄ ☐ NaOH ☐ ICE UNPRESERVED		ANALYSES TRPH 418 T ☐ TPH 1005 ☐ TPH 1008 ☐ GASOLINE MOD 8015 ☐ OIL - MOD 8015 ☐ DIESEL - MOD 8015 ☐ VOC 8260 ☐ 8081 PESTICIDES ☐ PAH 8270 ☐ HOLDPAH ☐ 8082 PESTICIDES ☐ TOLP - METALS (RCRA) ☐ 8151 HERBICIDES ☐ TOLP - PEST ☐ TOLP - METALS (RCRA) ☐ TOLP - VOC ☐ LEAD - TOTAL ☐ HERB ☐ TOLP - VOC ☐ TDS ☐ TOX ☐ FLASHPOINT ☐ OTHER LIST ☐ PH ☐ TSS ☐ % MOISTURE ☐ TOLP ☐ EXPLOSIVES ☐ PENTACHLORATE ☐ CYANIDE ☐ CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐	
Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	FIELD NOTES	
S9 5'		12/6/12	1017	S	1	X	
1 9'			1030				
S10 1'			0940				
1 3'			0941				
1 5'			0942				
1 8'			0955				
S11 1'			0830				
1 3'			0831				
1 5'			0832				
1 9'			0845				
S-13 1'			0850				
1 3'			0851				
1 5'			0852				
1 10'			0900				
S-24 1'			0915				
TOTAL							
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		TURN AROUND TIME	
		12/7/12 1310				NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐	
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		LABORATORY USE ONLY:	
						RECEIVING TEMP _____ THERM# _____ CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # _____ ☐ HAND DELIVERED	
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)			
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)			
LABORATORY		Xenoco					

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22430 No. 2431

No. 2431

CHAIN-OF-CUSTODY

[illegible]

22138 No. 2432
CHAIN-OF-CUSTODY

No. 2432

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-22438-1

SDG Number: 22-0104-08

Login Number: 22438

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-19309-1

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

A handwritten signature in cursive script that reads "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

LINKS

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

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

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

Laboratory Job ID: 880-19309-1
SDG: 22-0104-08

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Definitions/Glossary

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

Job ID: 880-19309-1
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Midland

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 1.0° 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.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
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'

Lab Sample ID: 880-19309-1

Date Collected: 09/15/22 10:00

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	<0.00202	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'

Lab Sample ID: 880-19309-2

Date Collected: 09/15/22 10:02

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 15:24	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

Eurofins Midland

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'

Lab Sample ID: 880-19309-2

Date Collected: 09/15/22 10:02

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	<0.00399	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'

Lab Sample ID: 880-19309-3

Date Collected: 09/15/22 10:04

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 15:24	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

Eurofins Midland

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-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
OII 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
OII 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

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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'

Lab Sample ID: 880-19309-5

Date Collected: 09/15/22 10:08

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 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'

Lab Sample ID: 880-19309-6

Date Collected: 09/15/22 10:10

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 15:24	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

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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, 0.5'

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.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		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'

Lab Sample ID: 880-19309-8

Date Collected: 09/15/22 10:14

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 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
Oil 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

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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'

Lab Sample ID: 880-19309-9

Date Collected: 09/15/22 10:16

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 15:24	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'

Lab Sample ID: 880-19309-10

Date Collected: 09/15/22 10:18

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	<0.00199	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

Eurofins Midland

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, 0.5'

Lab Sample ID: 880-19309-10

Date Collected: 09/15/22 10:18

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	<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'

Lab Sample ID: 880-19309-11

Date Collected: 09/15/22 10:20

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 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.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
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
Oil 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
Oil 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

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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'

Lab Sample ID: 880-19309-13

Date Collected: 09/15/22 10:24

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 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'

Lab Sample ID: 880-19309-14

Date Collected: 09/15/22 10:26

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	<0.00199	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

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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, 0.5'

Lab Sample ID: 880-19309-14

Date Collected: 09/15/22 10:26

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 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'

Lab Sample ID: 880-19309-15

Date Collected: 09/15/22 10:28

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 15:24	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

Eurofins Midland

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-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

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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'

Lab Sample ID: 880-19309-17

Date Collected: 09/15/22 10:32

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 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'

Lab Sample ID: 880-19309-18

Date Collected: 09/15/22 10:34

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 15:24	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

Eurofins Midland

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, 0.5'

Lab Sample ID: 880-19309-18

Date Collected: 09/15/22 10:34

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 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'

Lab Sample ID: 880-19309-19

Date Collected: 09/15/22 10:36

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	<0.00200	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.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
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
Oil 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
Oil 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

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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'

Lab Sample ID: 880-19309-21

Date Collected: 09/15/22 10:40

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 15:27	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'

Lab Sample ID: 880-19309-22

Date Collected: 09/15/22 10:42

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	<0.00202	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

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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'

Lab Sample ID: 880-19309-22

Date Collected: 09/15/22 10:42

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	<0.00404	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'

Lab Sample ID: 880-19309-23

Date Collected: 09/15/22 10:44

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 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.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Client Sample ID: S-12, 0'

Lab Sample ID: 880-19309-23

Date Collected: 09/15/22 10:44

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	09/18/22 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'

Lab Sample ID: 880-19309-24

Date Collected: 09/15/22 10:46

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 15:27	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
Oil 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

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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'

Lab Sample ID: 880-19309-25

Date Collected: 09/15/22 10:48

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 15:27	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'

Lab Sample ID: 880-19309-26

Date Collected: 09/15/22 10:50

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 15:27	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

Eurofins Midland

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, 0.5'

Lab Sample ID: 880-19309-26

Date Collected: 09/15/22 10:50

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	<0.00402	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'

Lab Sample ID: 880-19309-27

Date Collected: 09/15/22 10:52

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 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

Eurofins Midland

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-14, 0'

Lab Sample ID: 880-19309-27

Date Collected: 09/15/22 10:52

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)	<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'

Lab Sample ID: 880-19309-28

Date Collected: 09/15/22 10:54

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 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
Oil 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

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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'

Lab Sample ID: 880-19309-29

Date Collected: 09/15/22 10:56

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	<0.00198	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'

Lab Sample ID: 880-19309-30

Date Collected: 09/15/22 10:58

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 15:27	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

Eurofins Midland

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'

Lab Sample ID: 880-19309-30

Date Collected: 09/15/22 10:58

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	<0.00402	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'

Lab Sample ID: 880-19309-31

Date Collected: 09/15/22 11:00

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 16:30	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

Eurofins Midland

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-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

Eurofins Midland

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'

Lab Sample ID: 880-19309-33

Date Collected: 09/15/22 11:04

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 15:27	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
Oil 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'

Lab Sample ID: 880-19309-34

Date Collected: 09/15/22 11:06

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	<0.00199	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

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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'

Lab Sample ID: 880-19309-34

Date Collected: 09/15/22 11:06

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	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'

Lab Sample ID: 880-19309-35

Date Collected: 09/15/22 11:08

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 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

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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-18, 0'

Lab Sample ID: 880-19309-35

Date Collected: 09/15/22 11:08

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 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'

Lab Sample ID: 880-19309-36

Date Collected: 09/15/22 11:10

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 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
Oil 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

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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'

Lab Sample ID: 880-19309-37

Date Collected: 09/15/22 11:12

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	<0.00199	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'

Lab Sample ID: 880-19309-38

Date Collected: 09/15/22 11:14

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 15:27	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

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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, 0.5'

Lab Sample ID: 880-19309-38

Date Collected: 09/15/22 11:14

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	<0.00402	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'

Lab Sample ID: 880-19309-39

Date Collected: 09/15/22 11:16

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 19:15	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

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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-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
OII 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
OII 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

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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'

Lab Sample ID: 880-19309-41

Date Collected: 09/15/22 11:20

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 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'

Lab Sample ID: 880-19309-42

Date Collected: 09/15/22 11:22

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 15:07	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

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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'

Lab Sample ID: 880-19309-42

Date Collected: 09/15/22 11:22

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	<0.00399	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'

Lab Sample ID: 880-19309-43

Date Collected: 09/15/22 11:24

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 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

Eurofins Midland

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-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
Oil 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
Oil 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

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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'

Lab Sample ID: 880-19309-45

Date Collected: 09/15/22 11:28

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 15:07	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'

Lab Sample ID: 880-19309-46

Date Collected: 09/15/22 11:32

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 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

Eurofins Midland

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-24, 0'

Lab Sample ID: 880-19309-46

Date Collected: 09/15/22 11:32

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	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'

Lab Sample ID: 880-19309-47

Date Collected: 09/15/22 11:34

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 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

Eurofins Midland

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-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
OII 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
OII 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

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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'

Lab Sample ID: 880-19309-49

Date Collected: 09/15/22 11:38

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	<0.00200	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'

Lab Sample ID: 880-19309-50

Date Collected: 09/15/22 11:40

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	0.00436		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

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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-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

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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'

Lab Sample ID: 880-19309-51

Date Collected: 09/15/22 11:30

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 14:47	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		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

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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) (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

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Surrogate Summary

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)

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)

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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

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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

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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	MS 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	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limits
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
										</	

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	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
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	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
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

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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

	LCS	LCS	
Surrogate	%Recovery	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

	LCSD	LCSD	
Surrogate	%Recovery	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

	MS	MS	
Surrogate	%Recovery	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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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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

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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

	MS	MS	
Surrogate	%Recovery	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

	MSD	MSD	
Surrogate	%Recovery	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

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
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

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	98		70 - 130
o-Terphenyl (Surr)	107		70 - 130

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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

Matrix: Solid

Analysis Batch: 34716

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 34716

Client Sample ID: S-11, 0'

Prep Type: Total/NA

Prep Batch: 34683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U 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

Matrix: Solid

Analysis Batch: 34716

Client Sample ID: S-11, 0'

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 34705

Client Sample ID: Method Blank

Prep Type: Total/NA

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

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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	MB	Limits	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier					
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	LCS	Limits
%Recovery	Qualifier		
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	LCSD	Limits
%Recovery	Qualifier		
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	MS	Limits
%Recovery	Qualifier		
1-Chlorooctane (Surr)	111		70 - 130
o-Terphenyl (Surr)	88		70 - 130

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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

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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

Matrix: Solid

Analysis Batch: 34985

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-19309-21 MS

Matrix: Solid

Analysis Batch: 34985

Client Sample ID: S-11, 0'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	23600	F1	12400	42540	F1	mg/Kg		153	90 - 110		

Lab Sample ID: 880-19309-21 MSD

Matrix: Solid

Analysis Batch: 34985

Client Sample ID: S-11, 0'

Prep Type: Soluble

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

Matrix: Solid

Analysis Batch: 34985

Client Sample ID: S-16, 0'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20700	F1	12500	38090	F1	mg/Kg		139	90 - 110		

Lab Sample ID: 880-19309-31 MSD

Matrix: Solid

Analysis Batch: 34985

Client Sample ID: S-16, 0'

Prep Type: Soluble

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

Matrix: Solid

Analysis Batch: 35104

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 03:59	1

Lab Sample ID: LCS 880-34670/2-A

Matrix: Solid

Analysis Batch: 35104

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.1		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-34670/3-A

Matrix: Solid

Analysis Batch: 35104

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	255.6		mg/Kg		102	90 - 110	0	20

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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		

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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

Matrix: Solid

Analysis Batch: 35105

Client Sample ID: S-17, 0'

Prep Type: Soluble

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

Matrix: Solid

Analysis Batch: 35105

Client Sample ID: S-22, 0'

Prep Type: Soluble

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

Matrix: Solid

Analysis Batch: 35105

Client Sample ID: S-22, 0'

Prep Type: Soluble

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	

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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

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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	

Eurofins Midland

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	

Eurofins Midland

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	

Eurofins Midland

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

Eurofins Midland

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	

Eurofins Midland

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	

Eurofins Midland

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	

Eurofins Midland

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

Eurofins Midland

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

Eurofins Midland

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'

Lab Sample ID: 880-19309-1

Date Collected: 09/15/22 10:00

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 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'

Lab Sample ID: 880-19309-2

Date Collected: 09/15/22 10:02

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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'

Lab Sample ID: 880-19309-3

Date Collected: 09/15/22 10:04

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	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'

Lab Sample ID: 880-19309-4

Date Collected: 09/15/22 10:06

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	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

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-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

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'

Lab Sample ID: 880-19309-5

Date Collected: 09/15/22 10:08

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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'

Lab Sample ID: 880-19309-6

Date Collected: 09/15/22 10:10

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	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'

Lab Sample ID: 880-19309-7

Date Collected: 09/15/22 10:12

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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'

Lab Sample ID: 880-19309-7

Date Collected: 09/15/22 10:12

Matrix: Solid

Date Received: 09/16/22 09:20

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'

Lab Sample ID: 880-19309-8

Date Collected: 09/15/22 10:14

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	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'

Lab Sample ID: 880-19309-9

Date Collected: 09/15/22 10:16

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	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'

Lab Sample ID: 880-19309-10

Date Collected: 09/15/22 10:18

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	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

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-6, 0'

Lab Sample ID: 880-19309-11

Date Collected: 09/15/22 10:20

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	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'

Lab Sample ID: 880-19309-12

Date Collected: 09/15/22 10:22

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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'

Lab Sample ID: 880-19309-13

Date Collected: 09/15/22 10:24

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 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'

Lab Sample ID: 880-19309-14

Date Collected: 09/15/22 10:26

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	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'

Lab Sample ID: 880-19309-14

Date Collected: 09/15/22 10:26

Matrix: Solid

Date Received: 09/16/22 09:20

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'

Lab Sample ID: 880-19309-15

Date Collected: 09/15/22 10:28

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	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'

Lab Sample ID: 880-19309-16

Date Collected: 09/15/22 10:30

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	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'

Lab Sample ID: 880-19309-17

Date Collected: 09/15/22 10:32

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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

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-9, 0'

Lab Sample ID: 880-19309-17

Date Collected: 09/15/22 10:32

Matrix: Solid

Date Received: 09/16/22 09:20

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'

Lab Sample ID: 880-19309-18

Date Collected: 09/15/22 10:34

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	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'

Lab Sample ID: 880-19309-19

Date Collected: 09/15/22 10:36

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 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'

Lab Sample ID: 880-19309-20

Date Collected: 09/15/22 10:38

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	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

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-11, 0'

Lab Sample ID: 880-19309-21

Date Collected: 09/15/22 10:40

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	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'

Lab Sample ID: 880-19309-22

Date Collected: 09/15/22 10:42

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 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'

Lab Sample ID: 880-19309-23

Date Collected: 09/15/22 10:44

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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'

Lab Sample ID: 880-19309-24

Date Collected: 09/15/22 10:46

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	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

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-12, 0.5'

Lab Sample ID: 880-19309-24

Date Collected: 09/15/22 10:46

Matrix: Solid

Date Received: 09/16/22 09:20

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'

Lab Sample ID: 880-19309-25

Date Collected: 09/15/22 10:48

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	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'

Lab Sample ID: 880-19309-26

Date Collected: 09/15/22 10:50

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	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'

Lab Sample ID: 880-19309-27

Date Collected: 09/15/22 10:52

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 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

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-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

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-16, 0'**Lab Sample ID: 880-19309-31****Date Collected: 09/15/22 11:00****Matrix: Solid****Date Received: 09/16/22 09:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 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'**Lab Sample ID: 880-19309-32****Date Collected: 09/15/22 11:02****Matrix: Solid****Date Received: 09/16/22 09:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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'**Lab Sample ID: 880-19309-33****Date Collected: 09/15/22 11:04****Matrix: Solid****Date Received: 09/16/22 09:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	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'**Lab Sample ID: 880-19309-34****Date Collected: 09/15/22 11:06****Matrix: Solid****Date Received: 09/16/22 09:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	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

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-17, 0.5'

Lab Sample ID: 880-19309-34

Date Collected: 09/15/22 11:06

Matrix: Solid

Date Received: 09/16/22 09:20

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'

Lab Sample ID: 880-19309-35

Date Collected: 09/15/22 11:08

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 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'

Lab Sample ID: 880-19309-36

Date Collected: 09/15/22 11:10

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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'

Lab Sample ID: 880-19309-37

Date Collected: 09/15/22 11:12

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	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

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-19, 0'

Lab Sample ID: 880-19309-37

Date Collected: 09/15/22 11:12

Matrix: Solid

Date Received: 09/16/22 09:20

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'

Lab Sample ID: 880-19309-38

Date Collected: 09/15/22 11:14

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	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'

Lab Sample ID: 880-19309-39

Date Collected: 09/15/22 11:16

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 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'

Lab Sample ID: 880-19309-40

Date Collected: 09/15/22 11:18

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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

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-21, 0'

Lab Sample ID: 880-19309-41

Date Collected: 09/15/22 11:20

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	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'

Lab Sample ID: 880-19309-42

Date Collected: 09/15/22 11:22

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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'

Lab Sample ID: 880-19309-43

Date Collected: 09/15/22 11:24

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	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'

Lab Sample ID: 880-19309-44

Date Collected: 09/15/22 11:26

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	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

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-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

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'

Lab Sample ID: 880-19309-45

Date Collected: 09/15/22 11:28

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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'

Lab Sample ID: 880-19309-46

Date Collected: 09/15/22 11:32

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	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'

Lab Sample ID: 880-19309-47

Date Collected: 09/15/22 11:34

Matrix: Solid

Date Received: 09/16/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	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'**Lab Sample ID: 880-19309-47****Date Collected: 09/15/22 11:34****Matrix: Solid****Date Received: 09/16/22 09:20**

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'**Lab Sample ID: 880-19309-48****Date Collected: 09/15/22 11:36****Matrix: Solid****Date Received: 09/16/22 09:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	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'**Lab Sample ID: 880-19309-49****Date Collected: 09/15/22 11:38****Matrix: Solid****Date Received: 09/16/22 09:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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'**Lab Sample ID: 880-19309-50****Date Collected: 09/15/22 11:40****Matrix: Solid****Date Received: 09/16/22 09:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	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

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-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.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
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

Eurofins Midland

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

Marson & Associates, Inc.
Environmental Consultants

507 N. Marenfeld, 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 (SUD) Pad 34
LAI PROJECT #: 22-0104-08 COLLECTOR: NW + JH

19309 No. 2723
CHAIN-OF-CUSTODY

TIME ZONE Time zone/State	TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
									HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE			UNPRESERVED
S-1, 0'					9/15/22	1000	S	1							
S-1, 0.5'						1001									
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															



860-19309 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
LABORATORY	Ken Co		

TURN AROUND TIME	LABORATORY USE ONLY:
NORMAL ☒	RECEIVING TEMP <u>810</u>
1 DAY ☐	THERM# <u>SWB, 26</u>
2 DAY ☐	CUSTODY SEALS - ☐ BROKEN ☐ CONTACT ☐ NOT USED
OTHER ☐	CARRIER BILL # _____
	HAND DELIVERED ☒

~~9/29/2022~~

~~9/29/2022~~

Larson & Associates, Inc.
Environmental Consultants

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

DATE: 9/16/2022 PAGE 4 OF 4
PO#: _____ LAB WORK ORDER#:
PROJECT LOCATION OR NAME: Sand Dunes (SND) Pad 34
LAI PROJECT #: 22-0104-03 COLLECTOR: RV & JH

19309 No. 2726
CHAIN-OF-CUSTODY

TRRP report?
☐ Yes ☒ No

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

TIME ZONE
Time zone/State

MST/MT

Field
Sample ID

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESSERVED

ANALYSES

BTEX ☐ MTBE ☐
TPH 418 1 ☐ TPH 1005 ☐ TPH 1006 ☐
GASOLINE MOD 8015 ☐
DIESEL - MOD 8015 ☐
OIL - MOD 8015 ☐
VOC 8260 ☐
SVOC 8270 ☐
8081 PESTICIDES ☐ PAH 8270 ☐ HOLDPAH ☐
8082 PCBS ☐ 8151 HERBICIDES ☐
TCPP - METALS (RCRA) ☐ TCPP ☐
TCPP - PEST ☐ HERB ☐ TCPP ☐
TOTAL METALS (RCRA) ☐ OTHER VOC ☐
LEAD - TOTAL ☐ DW 200 8 ☐ TCPP ☐
RCL ☐ TOX ☐ FLASHPOINT ☐
TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐
pH ☐ HEXAVALENT CHROMIUM ☐
EXPLOSIVES ☐ PECTHLORATE ☐
CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐

FIELD NOTES

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES
S-24'0'		9/15/22	1132	S	1				X		X X X X
S-24'0.5'			1139								X X X X
S-25'0-0.5'			1136								X X X X
S-26'0-0.5'			1135								X X X X
S-27'0-0.5'			1140								X X X X
S-28'0-0.5'			1130								X X X X

Loc: 880
19309

TOTAL

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

NORMAL ☒

RECEIVING TEMP

211.0

THERM#

118.20

RELINQUISHED BY (Signature)

DATE/TIME

RECEIVED BY (Signature)

2 DAY ☐

CUSTODY SEALS -

BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

LABORATORY Xenoco

OTHER ☐

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	



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/28/2022 11:18:14 AM

JOB DESCRIPTION

Sand Dunes Pad 34
SDG NUMBER 22-0104-08

JOB NUMBER

880-22838-1

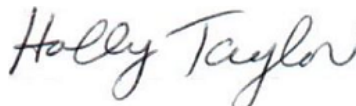
Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization



Generated
12/28/2022 11:18:14 AM

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: 880-22838-1
SDG: 22-0104-08

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QC Association Summary	13
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Definitions/Glossary

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

Job ID: 880-22838-1
SDG: 22-0104-08

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

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

Job ID: 880-22838-1
SDG: 22-0104-08

Job ID: 880-22838-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-22838-1

Receipt

The samples were received on 12/16/2022 3:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-28 0-0.5 (880-22838-1), S-28 0.5-1 (880-22838-2), S-28 1-1.5 (880-22838-3) and S-28 5' (880-22838-4).

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 880-42124 and analytical batch 880-42120 was outside the upper control limits.

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

HPLC/IC

Method 300_ORGFM_28D: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-42134 and analytical batch 880-42536. The associated laboratory control sample (LCS) met acceptance criteria.

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: 880-22838-1
SDG: 22-0104-08

Client Sample ID: S-28 0-0.5

Lab Sample ID: 880-22838-1

Date Collected: 12/16/22 11:00

Matrix: Solid

Date Received: 12/16/22 15:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/27/22 11:01	12/28/22 06:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/27/22 11:01	12/28/22 06:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/27/22 11:01	12/28/22 06:31	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/27/22 11:01	12/28/22 06:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/27/22 11:01	12/28/22 06:31	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/27/22 11:01	12/28/22 06:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	12/27/22 11:01	12/28/22 06:31	1
1,4-Difluorobenzene (Surr)	109		70 - 130	12/27/22 11:01	12/28/22 06:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/28/22 09:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/20/22 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/19/22 08:43	12/19/22 17:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/19/22 08:43	12/19/22 17:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/19/22 08:43	12/19/22 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	12/19/22 08:43	12/19/22 17:23	1
o-Terphenyl (Surr)	100		70 - 130	12/19/22 08:43	12/19/22 17:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14000		49.5	mg/Kg			12/27/22 21:48	10

Client Sample ID: S-28 0.5-1

Lab Sample ID: 880-22838-2

Date Collected: 12/16/22 11:15

Matrix: Solid

Date Received: 12/16/22 15:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/27/22 11:01	12/28/22 06:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/27/22 11:01	12/28/22 06:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/27/22 11:01	12/28/22 06:52	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/27/22 11:01	12/28/22 06:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/27/22 11:01	12/28/22 06:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/27/22 11:01	12/28/22 06:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	12/27/22 11:01	12/28/22 06:52	1
1,4-Difluorobenzene (Surr)	111		70 - 130	12/27/22 11:01	12/28/22 06:52	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22838-1
SDG: 22-0104-08

Client Sample ID: S-28 0.5-1

Lab Sample ID: 880-22838-2

Date Collected: 12/16/22 11:15

Matrix: Solid

Date Received: 12/16/22 15:50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/28/22 09:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/20/22 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/19/22 08:43	12/19/22 17:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/19/22 08:43	12/19/22 17:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/19/22 08:43	12/19/22 17:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130			12/19/22 08:43	12/19/22 17:45	1
o-Terphenyl (Surr)	110		70 - 130			12/19/22 08:43	12/19/22 17:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5250		25.3	mg/Kg			12/27/22 22:03	5

Client Sample ID: S-28 1-1.5

Lab Sample ID: 880-22838-3

Date Collected: 12/16/22 11:30

Matrix: Solid

Date Received: 12/16/22 15:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/27/22 11:01	12/28/22 07:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/27/22 11:01	12/28/22 07:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/27/22 11:01	12/28/22 07:12	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/27/22 11:01	12/28/22 07:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/27/22 11:01	12/28/22 07:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/27/22 11:01	12/28/22 07:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			12/27/22 11:01	12/28/22 07:12	1
1,4-Difluorobenzene (Surr)	108		70 - 130			12/27/22 11:01	12/28/22 07:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/28/22 09:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/20/22 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/19/22 08:43	12/19/22 18:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/19/22 08:43	12/19/22 18:06	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-22838-1
SDG: 22-0104-08

Client Sample ID: S-28 1-1.5

Lab Sample ID: 880-22838-3

Date Collected: 12/16/22 11:30

Matrix: Solid

Date Received: 12/16/22 15:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/19/22 08:43	12/19/22 18:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130			12/19/22 08:43	12/19/22 18:06	1
o-Terphenyl (Surr)	111		70 - 130			12/19/22 08:43	12/19/22 18:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	700		5.03	mg/Kg			12/27/22 22:08	1

Client Sample ID: S-28 5'

Lab Sample ID: 880-22838-4

Date Collected: 12/16/22 11:45

Matrix: Solid

Date Received: 12/16/22 15:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/27/22 11:01	12/28/22 07:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/27/22 11:01	12/28/22 07:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/27/22 11:01	12/28/22 07:32	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/27/22 11:01	12/28/22 07:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/27/22 11:01	12/28/22 07:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/27/22 11:01	12/28/22 07:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			12/27/22 11:01	12/28/22 07:32	1
1,4-Difluorobenzene (Surr)	106		70 - 130			12/27/22 11:01	12/28/22 07:32	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			12/28/22 09:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/20/22 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/19/22 08:43	12/19/22 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/19/22 08:43	12/19/22 18:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/19/22 08:43	12/19/22 18:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			12/19/22 08:43	12/19/22 18:27	1
o-Terphenyl (Surr)	105		70 - 130			12/19/22 08:43	12/19/22 18:27	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	406		5.01	mg/Kg			12/27/22 22:23	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-22838-1
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)
880-22838-1	S-28 0-0.5	107	109
880-22838-2	S-28 0.5-1	103	111
880-22838-3	S-28 1-1.5	105	108
880-22838-4	S-28 5'	103	106
LCS 880-42683/1-A	Lab Control Sample	99	107
LCSD 880-42683/2-A	Lab Control Sample Dup	99	109
MB 880-42530/5-A	Method Blank	94	105
MB 880-42683/5-A	Method Blank	95	107
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-22838-1	S-28 0-0.5	100	100
880-22838-2	S-28 0.5-1	111	110
880-22838-3	S-28 1-1.5	112	111
880-22838-4	S-28 5'	108	105
LCS 880-42124/2-A	Lab Control Sample	101	108
LCSD 880-42124/3-A	Lab Control Sample Dup	109	104
MB 880-42124/1-A	Method Blank	140 S1+	139 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: 880-22838-1
SDG: 22-0104-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42530/5-A

Matrix: Solid

Analysis Batch: 42656

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42530

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/22/22 14:20	12/27/22 13:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/22/22 14:20	12/27/22 13:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/22/22 14:20	12/27/22 13:14	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/22/22 14:20	12/27/22 13:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/22/22 14:20	12/27/22 13:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/22/22 14:20	12/27/22 13:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	12/22/22 14:20	12/27/22 13:14	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/22/22 14:20	12/27/22 13:14	1

Lab Sample ID: MB 880-42683/5-A

Matrix: Solid

Analysis Batch: 42656

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42683

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/27/22 11:01	12/28/22 00:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/27/22 11:01	12/28/22 00:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/27/22 11:01	12/28/22 00:49	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/27/22 11:01	12/28/22 00:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/27/22 11:01	12/28/22 00:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/27/22 11:01	12/28/22 00:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	12/27/22 11:01	12/28/22 00:49	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/27/22 11:01	12/28/22 00:49	1

Lab Sample ID: LCS 880-42683/1-A

Matrix: Solid

Analysis Batch: 42656

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1001		mg/Kg		100	70 - 130
Toluene	0.100	0.09307		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09116		mg/Kg		91	70 - 130
m,p-Xylenes	0.200	0.1889		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09082		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-42683/2-A

Matrix: Solid

Analysis Batch: 42656

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42683

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1005		mg/Kg		101	70 - 130	0	35

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QC Sample Results

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

Job ID: 880-22838-1
SDG: 22-0104-08

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

Lab Sample ID: LCSD 880-42683/2-A

Matrix: Solid

Analysis Batch: 42656

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42683

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09383		mg/Kg		94	70 - 130	1	35
Ethylbenzene	0.100	0.09159		mg/Kg		92	70 - 130	0	35
m,p-Xylenes	0.200	0.1890		mg/Kg		94	70 - 130	0	35
o-Xylene	0.100	0.09238		mg/Kg		92	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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

Lab Sample ID: MB 880-42124/1-A

Matrix: Solid

Analysis Batch: 42120

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42124

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/19/22 08:13	12/19/22 08:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/19/22 08:13	12/19/22 08:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/19/22 08:13	12/19/22 08:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	140	S1+	70 - 130	12/19/22 08:13	12/19/22 08:19	1
o-Terphenyl (Surr)	139	S1+	70 - 130	12/19/22 08:13	12/19/22 08:19	1

Lab Sample ID: LCS 880-42124/2-A

Matrix: Solid

Analysis Batch: 42120

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	922.2		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1001		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	101		70 - 130
o-Terphenyl (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-42124/3-A

Matrix: Solid

Analysis Batch: 42120

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42124

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	985.3		mg/Kg		99	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	961.2		mg/Kg		96	70 - 130	4	20

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QC Sample Results

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

Job ID: 880-22838-1
SDG: 22-0104-08

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

Lab Sample ID: LCSD 880-42124/3-A

Matrix: Solid

Analysis Batch: 42120

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42124

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-42134/1-A

Matrix: Solid

Analysis Batch: 42536

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			12/27/22 20:24		1

Lab Sample ID: LCS 880-42134/2-A

Matrix: Solid

Analysis Batch: 42536

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	255.1		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-42134/3-A

Matrix: Solid

Analysis Batch: 42536

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	246.4		mg/Kg		99	90 - 110	3	20

Lab Sample ID: 880-22838-1 MS

Matrix: Solid

Analysis Batch: 42536

Client Sample ID: S-28 0-0.5

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	14000		2480	13330	4	mg/Kg		-26	90 - 110		

Lab Sample ID: 880-22838-1 MSD

Matrix: Solid

Analysis Batch: 42536

Client Sample ID: S-28 0-0.5

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	14000		2480	13940	4	mg/Kg		-2	90 - 110	4	20

QC Association Summary

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

Job ID: 880-22838-1
SDG: 22-0104-08

GC VOA

Prep Batch: 42530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42530/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 42656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22838-1	S-28 0-0.5	Total/NA	Solid	8021B	42683
880-22838-2	S-28 0.5-1	Total/NA	Solid	8021B	42683
880-22838-3	S-28 1-1.5	Total/NA	Solid	8021B	42683
880-22838-4	S-28 5'	Total/NA	Solid	8021B	42683
MB 880-42530/5-A	Method Blank	Total/NA	Solid	8021B	42530
MB 880-42683/5-A	Method Blank	Total/NA	Solid	8021B	42683
LCS 880-42683/1-A	Lab Control Sample	Total/NA	Solid	8021B	42683
LCSD 880-42683/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42683

Prep Batch: 42683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22838-1	S-28 0-0.5	Total/NA	Solid	5035	
880-22838-2	S-28 0.5-1	Total/NA	Solid	5035	
880-22838-3	S-28 1-1.5	Total/NA	Solid	5035	
880-22838-4	S-28 5'	Total/NA	Solid	5035	
MB 880-42683/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42683/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42683/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 42782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22838-1	S-28 0-0.5	Total/NA	Solid	Total BTEX	
880-22838-2	S-28 0.5-1	Total/NA	Solid	Total BTEX	
880-22838-3	S-28 1-1.5	Total/NA	Solid	Total BTEX	
880-22838-4	S-28 5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 42120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22838-1	S-28 0-0.5	Total/NA	Solid	8015B NM	42124
880-22838-2	S-28 0.5-1	Total/NA	Solid	8015B NM	42124
880-22838-3	S-28 1-1.5	Total/NA	Solid	8015B NM	42124
880-22838-4	S-28 5'	Total/NA	Solid	8015B NM	42124
MB 880-42124/1-A	Method Blank	Total/NA	Solid	8015B NM	42124
LCS 880-42124/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42124
LCSD 880-42124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42124

Prep Batch: 42124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22838-1	S-28 0-0.5	Total/NA	Solid	8015NM Prep	
880-22838-2	S-28 0.5-1	Total/NA	Solid	8015NM Prep	
880-22838-3	S-28 1-1.5	Total/NA	Solid	8015NM Prep	
880-22838-4	S-28 5'	Total/NA	Solid	8015NM Prep	
MB 880-42124/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42124/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

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

Job ID: 880-22838-1
SDG: 22-0104-08

GC Semi VOA

Analysis Batch: 42299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22838-1	S-28 0-0.5	Total/NA	Solid	8015 NM	
880-22838-2	S-28 0.5-1	Total/NA	Solid	8015 NM	
880-22838-3	S-28 1-1.5	Total/NA	Solid	8015 NM	
880-22838-4	S-28 5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 42134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22838-1	S-28 0-0.5	Soluble	Solid	DI Leach	
880-22838-2	S-28 0.5-1	Soluble	Solid	DI Leach	
880-22838-3	S-28 1-1.5	Soluble	Solid	DI Leach	
880-22838-4	S-28 5'	Soluble	Solid	DI Leach	
MB 880-42134/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42134/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-42134/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22838-1 MS	S-28 0-0.5	Soluble	Solid	DI Leach	
880-22838-1 MSD	S-28 0-0.5	Soluble	Solid	DI Leach	

Analysis Batch: 42536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22838-1	S-28 0-0.5	Soluble	Solid	300.0	42134
880-22838-2	S-28 0.5-1	Soluble	Solid	300.0	42134
880-22838-3	S-28 1-1.5	Soluble	Solid	300.0	42134
880-22838-4	S-28 5'	Soluble	Solid	300.0	42134
MB 880-42134/1-A	Method Blank	Soluble	Solid	300.0	42134
LCS 880-42134/2-A	Lab Control Sample	Soluble	Solid	300.0	42134
LCSD 880-42134/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42134
880-22838-1 MS	S-28 0-0.5	Soluble	Solid	300.0	42134
880-22838-1 MSD	S-28 0-0.5	Soluble	Solid	300.0	42134

Lab Chronicle

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

Job ID: 880-22838-1
SDG: 22-0104-08

Client Sample ID: S-28 0-0.5**Lab Sample ID: 880-22838-1****Date Collected: 12/16/22 11:00****Matrix: Solid****Date Received: 12/16/22 15:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42683	12/27/22 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/28/22 06:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42782	12/28/22 09:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			42299	12/20/22 09:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42124	12/19/22 08:43	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42120	12/19/22 17:23	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	42134	12/19/22 09:24	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	42536	12/27/22 21:48	CH	EET MID

Client Sample ID: S-28 0.5-1**Lab Sample ID: 880-22838-2****Date Collected: 12/16/22 11:15****Matrix: Solid****Date Received: 12/16/22 15:50**

Prep 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	42683	12/27/22 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/28/22 06:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42782	12/28/22 09:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			42299	12/20/22 09:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42124	12/19/22 08:43	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42120	12/19/22 17:45	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	42134	12/19/22 09:24	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42536	12/27/22 22:03	CH	EET MID

Client Sample ID: S-28 1-1.5**Lab Sample ID: 880-22838-3****Date Collected: 12/16/22 11:30****Matrix: Solid****Date Received: 12/16/22 15:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42683	12/27/22 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/28/22 07:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42782	12/28/22 09:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			42299	12/20/22 09:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42124	12/19/22 08:43	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42120	12/19/22 18:06	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42134	12/19/22 09:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42536	12/27/22 22:08	CH	EET MID

Client Sample ID: S-28 5'**Lab Sample ID: 880-22838-4****Date Collected: 12/16/22 11:45****Matrix: Solid****Date Received: 12/16/22 15:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42683	12/27/22 11:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/28/22 07:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42782	12/28/22 09:31	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-22838-1
SDG: 22-0104-08

Client Sample ID: S-28 5'
Date Collected: 12/16/22 11:45
Date Received: 12/16/22 15:50

Lab Sample ID: 880-22838-4
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			42299	12/20/22 09:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42124	12/19/22 08:43	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42120	12/19/22 18:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42134	12/19/22 09:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42536	12/27/22 22:23	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.
Project/Site: Sand Dunes Pad 34

Job ID: 880-22838-1
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	T104704400-22-25	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

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

Method Summary

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

Job ID: 880-22838-1
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 Pad 34

Job ID: 880-22838-1
SDG: 22-0104-08

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22838-1	S-28 0-0.5	Solid	12/16/22 11:00	12/16/22 15:50
880-22838-2	S-28 0.5-1	Solid	12/16/22 11:15	12/16/22 15:50
880-22838-3	S-28 1-1.5	Solid	12/16/22 11:30	12/16/22 15:50
880-22838-4	S-28 5'	Solid	12/16/22 11:45	12/16/22 15:50

- 1
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- 10
- 11
- 12
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- 14

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

22038 No. 2875
CHAIN-OF-CUSTODY

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-22838-1

SDG Number: 22-0104-08

Login Number: 22838

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Appendix E

Cardinal Point Chevron Lab Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/19/2022 4:43:15 PM

JOB DESCRIPTION

Chevron-Sand Dunes Pad 34
SDG NUMBER 22-0105-14

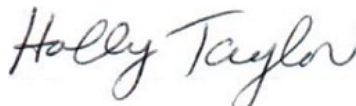
JOB NUMBER

880-22535-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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 4:43:15 PM

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

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

Laboratory Job ID: 880-22535-1
SDG: 22-0105-14

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Definitions/Glossary

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

Job ID: 880-22535-1
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
SQL	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: Chevron-Sand Dunes Pad 34

Job ID: 880-22535-1
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.
Project/Site: Chevron-Sand Dunes Pad 34

Job ID: 880-22535-1
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
Oil 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

Eurofins Midland

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'

Lab Sample ID: 880-22535-2

Date Collected: 12/07/22 14:50

Matrix: Solid

Date Received: 12/09/22 08:55

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
Oil 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.
Project/Site: Chevron-Sand Dunes Pad 34

Job ID: 880-22535-1
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)
880-22535-1	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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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

Eurofins Midland

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) (Continued)

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
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

Matrix: Solid

Analysis Batch: 41984

Client Sample ID: Method Blank

Prep Type: Total/NA

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
Oil 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

Matrix: Solid

Analysis Batch: 41984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 41984

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

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

	LCSD	LCSD	
Surrogate	%Recovery	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

	MB	MB							
Analyte	Result	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

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%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

	Spike	LCSD	LCSD					%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Chloride	250	251.3		mg/Kg		101	90 - 110	1	20		

QC Association Summary

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

Job ID: 880-22535-1
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	

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QC Association Summary

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

Job ID: 880-22535-1
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'

Lab Sample ID: 880-22535-1

Date Collected: 12/07/22 14:26

Matrix: Solid

Date Received: 12/09/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	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'

Lab Sample ID: 880-22535-2

Date Collected: 12/07/22 14:50

Matrix: Solid

Date Received: 12/09/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	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.
Project/Site: Chevron-Sand Dunes Pad 34

Job ID: 880-22535-1
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

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

Method Summary

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

Job ID: 880-22535-1
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: 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

- 1
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- 11
- 12
- 13
- 14

~~12/19/2022~~

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	

Appendix E
Chevron Lab Report



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/19/2022 4:43:15 PM

JOB DESCRIPTION

Chevron-Sand Dunes Pad 34
SDG NUMBER 22-0105-14

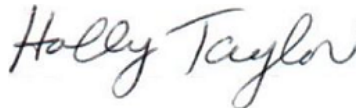
JOB NUMBER

880-22535-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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 4:43:15 PM

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

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

Laboratory Job ID: 880-22535-1
SDG: 22-0105-14

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Definitions/Glossary

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

Job ID: 880-22535-1
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.
Project/Site: Chevron-Sand Dunes Pad 34

Job ID: 880-22535-1
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.
Project/Site: Chevron-Sand Dunes Pad 34

Job ID: 880-22535-1
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
Oil 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

Eurofins Midland

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'

Lab Sample ID: 880-22535-2

Date Collected: 12/07/22 14:50

Matrix: Solid

Date Received: 12/09/22 08:55

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
Oil 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.
Project/Site: Chevron-Sand Dunes Pad 34

Job ID: 880-22535-1
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)
880-22535-1	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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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

Eurofins Midland

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) (Continued)

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
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

Matrix: Solid

Analysis Batch: 41984

Client Sample ID: Method Blank

Prep Type: Total/NA

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
Oil 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

Matrix: Solid

Analysis Batch: 41984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 41984

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

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

Eurofins Midland

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

	LCSD	LCSD	
Surrogate	%Recovery	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

	MB	MB							
Analyte	Result	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

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%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

	Spike	LCSD	LCSD					%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Chloride	250	251.3		mg/Kg		101	90 - 110	1	20		

QC Association Summary

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

Job ID: 880-22535-1
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	

Eurofins Midland

QC Association Summary

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

Job ID: 880-22535-1
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.
Project/Site: Chevron-Sand Dunes Pad 34

Job ID: 880-22535-1
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

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

Method Summary

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

Job ID: 880-22535-1
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: 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

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

~~12/19/2022~~

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

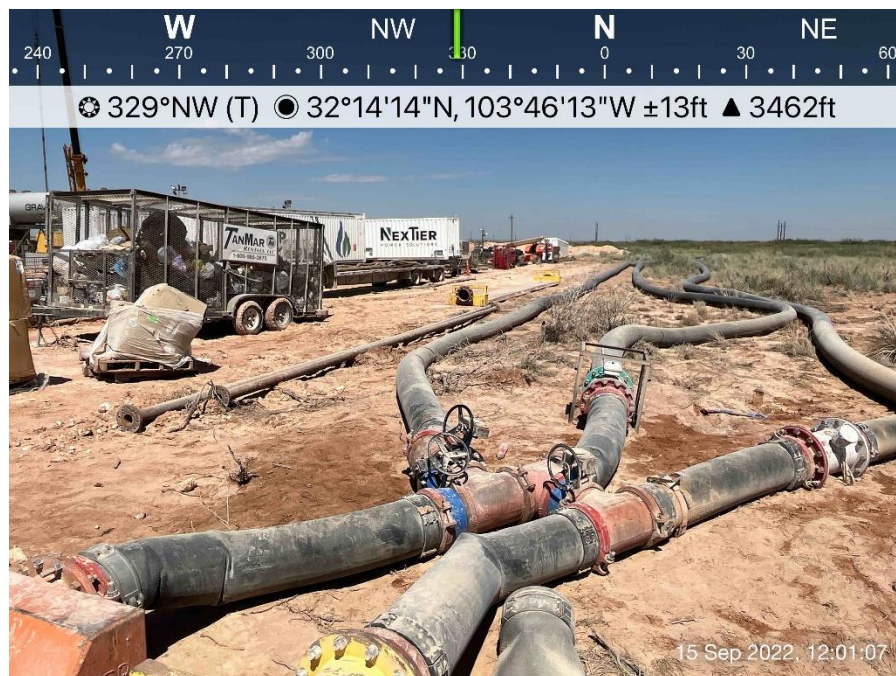
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature 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	

Appendix F
Photographs

Tracking Number: nAPP2225936815
Delineation Report and Remediation Plan
Select Energy Services, LLC, Sand Dunes Pad 34
Produced Water Release
April 3, 2023

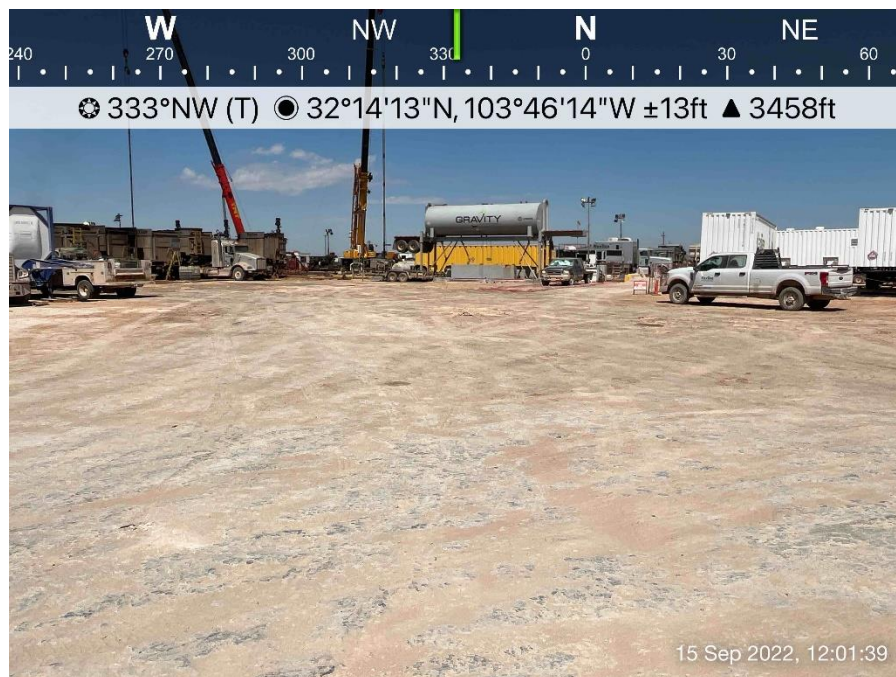


Impacted area viewing west September 15th, 2022.

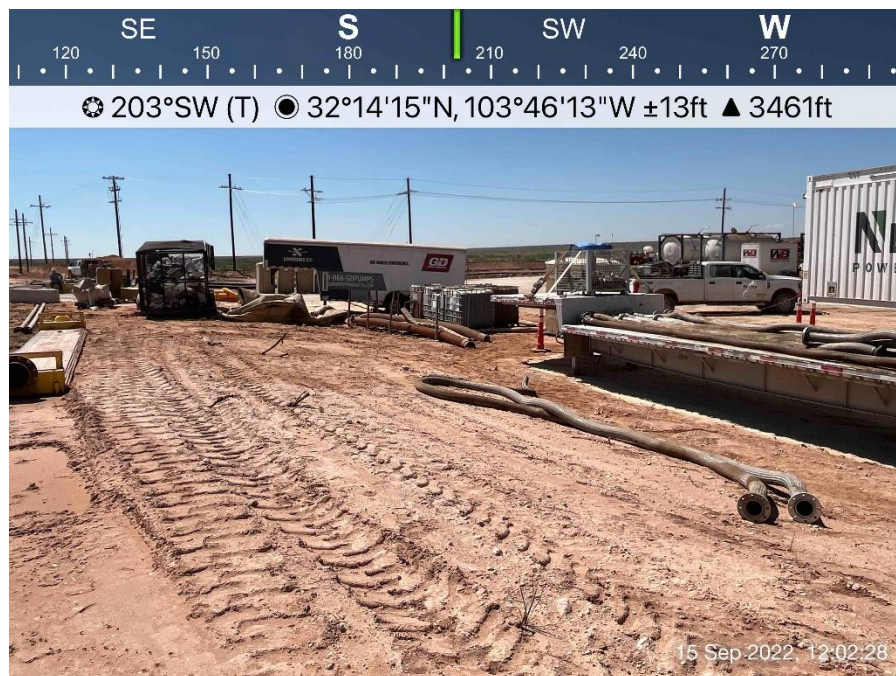


Impacted area viewing northwest September 15th, 2022.

Tracking Number: nAPP2225936815
Delineation Report and Remediation Plan
Select Energy Services, LLC, Sand Dunes Pad 34
Produced Water Release
April 3, 2023

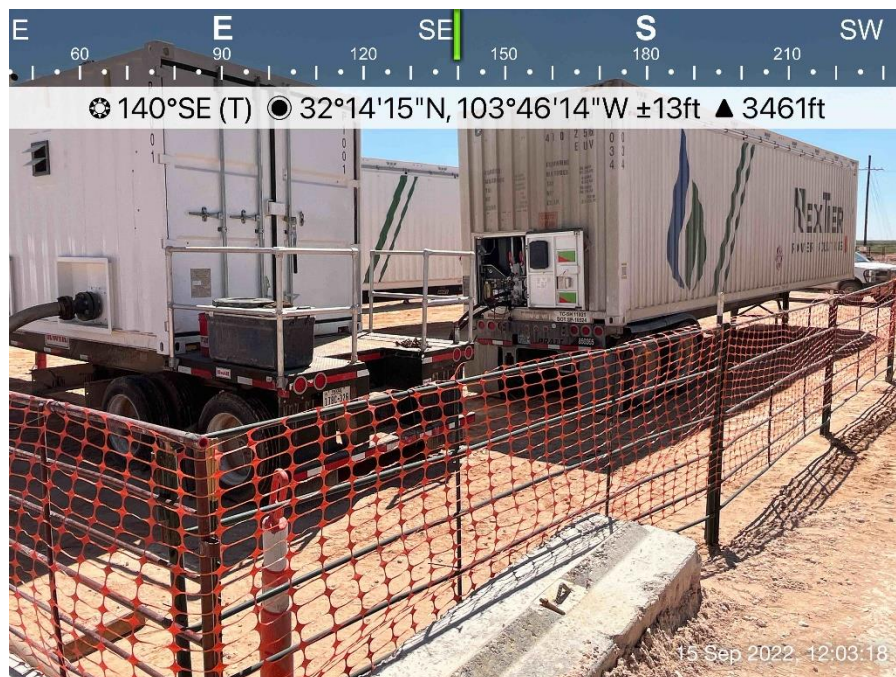


Impacted area viewing northwest September 15th, 2022.



Impacted area viewing south-southwest September 15th, 2022.

Tracking Number: nAPP2225936815
Delineation Report and Remediation Plan
Select Energy Services, LLC, Sand Dunes Pad 34
Produced Water Release
April 3, 2023



Impacted area viewing southeast September 15th, 2022.



Impacted area viewing south September 15th, 2022.

Tracking Number: nAPP2225936815
Delineation Report and Remediation Plan
Select Energy Services, LLC, Sand Dunes Pad 34
Produced Water Release
April 3, 2023

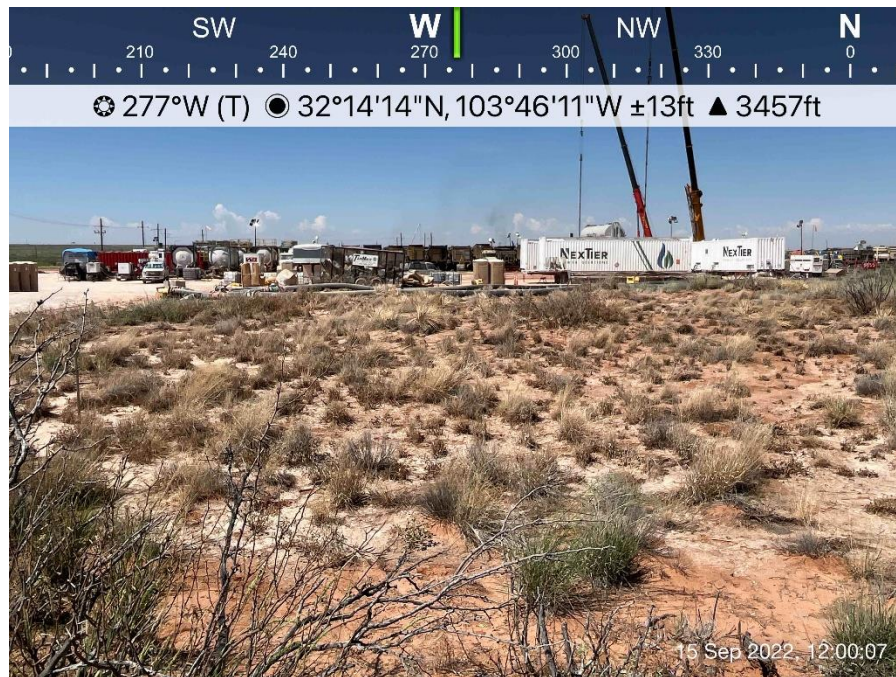


Impacted area viewing southeast September 15th, 2022.



Impacted area off pad viewing east September 16th, 2022.

Tracking Number: nAPP2225936815
Delineation Report and Remediation Plan
Select Energy Services, LLC, Sand Dunes Pad 34
Produced Water Release
April 3, 2023



Impacted area off pad viewing west September 16th, 2022.

Incident ID	nAPP2225936815
District RP	
Facility ID	
Application ID	

Remediation Plan

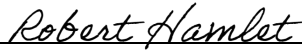
Remediation Plan Checklist: Each of the following items must be included in the plan.

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

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

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

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

Printed Name: Halie ButlerTitle: Sr. Corp ENV ManagerSignature: Date: 4/17/23email: hbutler@selectenergyservices.comTelephone: 281-467-3153**OCD Only**Received by: Jocelyn Harimon Date: 04/18/2023☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature:  Date: _____

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 208691

CONDITIONS

Operator: SELECT ENERGY SERVICES, LLC PO Box 1715 Gainesville, TX 76240	OGRID: 289068
	Action Number: 208691
	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. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the report has been reviewed.	9/7/2023