

Incident Number: nAPP2226254935
Closure Report
Sand Dunes Pad 34
Produced Water Release
Eddy County, New Mexico

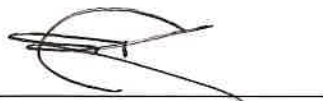
Latitude: 32.237397°
Longitude: -103.771306°

LAI Project No. 22-0105-14

March 20, 2024

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

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



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



Robert Nelson
Project Manager

This Page Intentionally Left Blank

Table of Contents

1.0	INTRODUCTION	1
1.1	Background	1
1.2	Physical Setting	1
1.3	Remediation Standards	2
2.0	DELINEATION	2
3.0	REMEDICATION	3
4.0	CLOSURE REQUEST	4

Tables

Table 1	Delineation Soil Sample Analytical Data Summary
Table 2	Confirmation Soil Sample Analytical Data Summary

Figures

Figure 1	Topographic Map
Figure 2	Aerial Map Showing Sample Locations
Figure 3	Aerial Map Showing Soil Boring Location
Figure 4	Aerial Map Showing Excavation and Confirmation Sample Locations

Appendices

Appendix A	Initial C-141 and Spill Calculation
Appendix B	Karst Risk Potential
Appendix C	Boring Log
Appendix D	NMOCD Communications
Appendix E	Laboratory Reports
Appendix F	Cardinal Point Select Lab Report
Appendix G	Photographs

Incident Number: nAPP2226254935
Closure Report
Chevron USA, Inc., Sand Dunes Pad 34
Produced Water Release
March 20, 2024

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this closure report on behalf of Chevron USA Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (NMOCD) District I for a produced water release at the Sand Dunes Pad 34 (Site) located in Unit D, Section 10, Township 24 South, Range 31 East in Eddy New Mexico. The geodetic position is North 32.040464° and West -103.659518°. Figure 1 presents a topographic map of the area. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on September 8, 2022, at about 08:00AM. The spill occurred due to a lay flat head fitting or clamp failure causing 75 barrels (bbls) of produced water to be released. The discharge pump lost power causing the blender tub to overflow due to the booster pump still running. Chevron reported 35 bbls of produced water were released into a lined secondary containment and 30 bbls of produced water were released to land. They also reported 10 bbls of produced water were in the blender tub. On September 20, 2022, Chevron submitted the initial C-141 to the OCD District 1 and was assigned the incident number nAPP2226254935. Appendix A presents Chevrons initial C-141 and spill calculations.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,449 feet above mean sea level (msl).
- The surface topography gradually decreases to the northwest.
- There are no surface water features within 1,000 feet of the Site.
- Karst data provided by the USGS describes the Site as “Low Risk” potential.
- The soils are designated as Berino complex, 0 to 3 percent slopes, consisting of 0 to 17 inches of fine sand, underlain by 17 to 58 inches of sandy clay loam. The soil is overlain by the caliche that make up the pad surface.
- The geology is Quaternary age eolian sands and silts, and locally includes cover sand bedding.
- Groundwater at a depth greater than 115 feet below ground surface (bgs) based on depth to groundwater measurements 72 hours after drilling a soil bore BH-1.

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

Incident Number: nAPP2226254935
Closure Report
Chevron USA, Inc., Sand Dunes Pad 34
Produced Water Release
March 20, 2024

1.3 Remediation Standards

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

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

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

2.0 DELINEATION

The release was fully delineated between October 5, 2022 and November 11, 2022. The delineation was reported to the NMOCD in the document titled *"Tracking Number: nAPP2226254935, Delineation Report and Remediation Plan, Sand Dunes Pad 34, Produced Water Release, Eddy County, New Mexico. April 4, 2023"* and recommended the following remediation:

- Excavate soil from an area measuring approximately 1437 square feet encompassing S-8 and S-4 to a depth of one (1) foot bgs.
- Excavate soil from an area measuring approximately 660 square feet encompassing S-7 and S-10 to a depth of two (2) feet bgs.
- Excavate soil from an area measuring approximately 3511 square feet encompassing S-2, S-3, S-5, S-6, S-9 to a depth of three (3) feet bgs.
- Excavate soil from an area measuring approximately 528 square feet encompassing S-1 to a depth of 4.1 feet bgs.
- Collect five (5) point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH and chloride.
- Backfill excavation with caliche assuming achievement of NMOCD remediation levels.
- Prepare report with photographs for submittal to NMOCD District 1.

The remediation plan was conditionally approved on September 13, 2023 and stated the following *"All samples must be analyzed for all constituents listed in Table 1 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 chloride and 100 mg/Kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Please collect confirmation samples, representing no more than 200 ft². The work will need to occur in 90 days after the report has been reviewed."* Appendix D presents the NMOCD communications.

Incident Number: nAPP2226254935
 Closure Report
 Chevron USA, Inc., Sand Dunes Pad 34
 Produced Water Release
 March 20, 2024

3.0 REMEDIATION

On September 20, 2023, Apeck Construction LLC (Apeck), under supervision from LAI personnel, began excavating contaminated soil per the NMOCD approved remediation plan. Approximately 590 cubic yards of impacted material was removed and stockpiled on a liner adjacent to the excavation prior to being hauled to the R360 Halfway disposal facility between Hobbs and Carlsbad, New Mexico.

On September 27, 2023, LAI personnel collected twenty-nine (29) bottom and sidewall confirmation soil samples (C-1 through C-29) from within the excavated area. Soil samples were delivered under chain of custody and preservation to Eurofins-Xenco Laboratories (Xenco) in Midland, Texas. The soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28), and gasoline range organics (>C28-C35), and chloride by EPA SW-846 Methods 8021B and 8015M, and EPA Method 300.0E, respectively. The laboratory analysis reported benzene and BTEX below the NMOCD remediation standard of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg, respectively, in all confirmation soil samples. TPH and Chloride reported above the NMOCD remediation standard of 100 mg/Kg and 600mg/Kg, respectively, in the follow samples:

Sample ID	Location	Depth (Feet)	TPH Concentration (mg/Kg)	Chloride Concentration (mg/Kg)	Sample ID	Location	Depth (Feet)	Chloride Concentration (mg/Kg)
C-1	Bottom	2	--	804	C-17	Bottom	3	1,230
C-8	Bottom	2	289	7,370	C-18	Bottom	3	774
C-9	Bottom	3	--	1,030	C-19	Bottom	3	898
C-10	Bottom	3	--	1,190	C-20	Bottom	3	944
C-11	Bottom	3	--	944	C-21	Bottom	3	735
C-12	Bottom	3	--	1,090	C-22	Bottom	3	1,840
C-13	Bottom	1	--	2,150	C-23	Bottom	3	1,180
C-14	Bottom	1	--	2,680	C-24	Bottom	3	1,590
C-15	Bottom	1	125	2,700	C-25	Bottom	3	1,100
C-16	Bottom	3	--	1,150	C-29	Sidewall	0 – 4.1	2,510

On January 29, 2024, Apeck under supervision from LAI personnel began excavating additional soil encompassing the above-mentioned bottom and sidewall soil sample locations. Soil was excavated in one (1) foot increments and stockpiled on a liner prior to being hauled to the R360 Halfway disposal facility.

Incident Number: nAPP2226254935

Closure Report

Chevron USA, Inc., Sand Dunes Pad 34

Produced Water Release

March 20, 2024

Subsequent laboratory analysis reported three (3) confirmation soil samples (C-14, C-15, and C-29) remained above the NMOCD closure criteria for TPH or chloride. On February 19, 2024, an additional one (1) foot was removed from the sidewall encompassing soil sample location C-29 and 2.1 feet encompassing bottom soil samples C-14 and C-15. Laboratory analysis reported all confirmation soil samples below the NMOCD closure criteria requirements list in Table 1 19.15.29 NMAC.

On January 29, 2024, LAI personnel collected four (4) backfill composite soil samples (BF-1 through BF-4) from a nearby NGL borrow pit in Lea County, New Mexico. Xenco analyzed the samples and reported benzene, BTEX, and TPH concentrations below the analytical method reporting limit (RL) and chloride was less than 600 mg/Kg. On February 20, 2024, Apeck backfill the excavation with non-waste containing backfill material from the nearby pit and watered, rolled, and compacted the production pad. Table 2 presents the confirmation soil sample analytical data summary. Figure 4 presents an aerial map showing excavation and confirmation sample locations. Appendix D presents the NMOCD communications. Appendix E presents the laboratory reports. Appendix F presents the cardinal point select lab report. Appendix G presents the photographic documentation.

4.0 CLOSURE REQUEST

Chevron requests no further action for nAPP2226254935.

Tables

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

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				10	50	100/2,500			600/10,000	
S-1	0	10/05/2022	In-Situ	<0.00200	<0.00400	<50.0	650	232	882	15,200
	0.5	10/05/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	7,860
	1	11/29/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	250
	3	11/29/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	4,620
	5	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	2,390
	10	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	56.6
S-2	0	10/05/2022	In-Situ	<0.00198	<0.00397	<49.9	4,120	1,220	5,340	17,200
	0.5	10/05/2022	In-Situ	<0.00201	<0.00402	<49.9	226	<49.9	226	3,890
	1	11/29/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	756
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	29.6
	5	11/29/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	33.3
	10	11/29/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	32.2
S-3	0	10/05/2022	In-Situ	<0.00200	<0.00399	<50.0	410	128	538	14,900
	0.5	10/05/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	1,240
	1	11/29/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	1,100
	3	11/29/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	78.4
	5	11/29/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	17.3
	10	11/29/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	23.8
S-4	0	10/05/2022	In-Situ	<0.00200	<0.00401	<50.0	1,150	377	1,530	15,600
	0.5	10/05/2022	In-Situ	<0.00200	<0.00399	<50.0	122	<50.0	122	4,930
	1	01/18/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	239
	3	01/18/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	228
	5	11/29/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	20.6
	10	11/29/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	27.0

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

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				10	50	100/2,500			600/10,000	
S-5	0	10/05/2022	In-Situ	<0.00202	<0.00403	<49.8	163	<49.8	163	12,200
	0.5	10/05/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	3,970
	1	11/29/2022	In-Situ	<0.00199	<0.00398	<49.9	83.4	<49.9	83.4	3,320
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	40.4
	5	11/29/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	16.9
	10	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	16.8
S-6	0	10/05/2022	In-Situ	<0.00199	<0.00398	<50.0	473	164	637	9,940
	0.5	10/05/2022	In-Situ	<0.00201	<0.00402	<50.0	72.6	<50.0	72.6	1,760
	1	11/29/2022	In-Situ	<0.00201	<0.00402	<49.8	76.4	<49.8	76.4	3,620
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	211
	5	11/29/2022	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	21.2
	10	11/29/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	23.5
S-7	0 - 0.5	10/05/2022	In-Situ	<0.00200	<0.00401	<50.0	275	88.9	364	2,000
	1	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	736
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	43.9
	5	11/29/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	24.3
	10	11/29/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	79.3
S-8	0 - 0.5	10/05/2022	In-Situ	<0.00200	<0.00400	71.4	7,770	152	7,990	6,240
	1	11/29/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	17.9
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	17.6
	5	11/29/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	17.5
	10	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	14.7
S-9	0 - 0.5	10/05/2022	In-Situ	<0.00401	0.187	<49.8	71.8	<49.8	71.8	3,770
	1	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	57.1	<50.0	57.1	2,620

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

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				10	50	100/2,500				600/10,000
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	77.2
	5	11/29/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	20.4
	10	11/29/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	62.4
S-10	0 - 0.5	10/05/2022	In-Situ	<0.00199	0.00744	<49.8	64.9	<49.8	64.9	376
	1	11/29/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	892
	3	11/29/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	155
	5	11/29/2022	In-Situ	<0.00200	0.00492	<50.0	<50.0	<50.0	<50.0	79.4
	10	11/29/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	41.5
S-11	1	12/07/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	104
S-12	1	12/07/2022	In-Situ	<0.00199	<0.00396	<49.9	<49.9	<49.9	<49.9	78.1
S-13	0.5	01/18/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	197
S-27(nAPP2225936815)	0 - 0.5	9/15/2022	In-Situ	0.00436	0.00436	<49.9	<49.9	<49.9	<49.9	10.7

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

Depth in feet below ground surface (bgs)

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

<: denotes concentration less than analytical method reporting limit

Bold and Highlighted exceeds OCD remediation action limits

Table 2
Confirmation Soil Sample Analytical Data Summary
Sand Dunes Pad 34
Eddy County, New Mexico
32° 14' 15.23563"N, 103° 46' 17.08436"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					10	50	100/2,500			600/20,000	
C-1	Bottom	2	09/27/2023	Excavated	<0.00200	<0.00401	<50.0	88.8	<50.0	88.8	804
		4.1	01/29/2024	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	189
C-2	Bottom	2	09/27/2023	In-Situ	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	203
C-3	Bottom	4.1	09/27/2023	In-Situ	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	547
C-4	Bottom	4.1	09/27/2023	In-Situ	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	773
C-5	Bottom	4.1	09/27/2023	In-Situ	<0.00199	<0.00398	<50.2	146	89.9	236	554
C-6	Bottom	4.1	09/27/2023	In-Situ	<0.00199	<0.00398	<49.7	241	116	357	2,400
C-7	Bottom	3	09/27/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	278
C-8	Bottom	2	09/27/2023	Excavated	<0.00201	<0.00402	<49.6	186	103	289	7,370
		4.1	01/29/2024	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	233
C-9	Bottom	3	09/27/2023	Excavated	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	1,030
		4.1	01/29/2024	In-Situ	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	276
C-10	Bottom	3	09/27/2023	Excavated	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	1,190
		4.1	01/29/2024	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	485
C-11	Bottom	3	09/27/2023	Excavated	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	944
		4.1	01/29/2024	In-Situ	<0.00198	<0.00397	<49.6	<49.6	<49.6	<49.6	204
C-12	Bottom	3	09/27/2023	Excavated	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	1,090
		4.1	01/29/2024	In-Situ	<0.00200	<0.00399	<50.2	<50.2	<50.2	<50.2	547
C-13	Bottom	1	09/27/2023	Excavated	<0.00201	<0.00402	<50.0	54.6	<50.0	54.6	2,150
		2	01/29/2024	In-Situ	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	498
C-14	Bottom	1	09/27/2023	Excavated	<0.00199	<0.00398	<50.0	82.9	<50.0	82.9	2,680
		2	01/29/2024	Excavated	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5	632
		4.1	02/19/2024	In-Situ	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	370
C-15	Bottom	1	09/27/2023	Excavated	<0.00198	<0.00396	<49.9	125	<49.9	125	2,700
		2	01/29/2024	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	773
		4.1	02/19/2024	In-Situ	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	112
C-16	Bottom	3	09/27/2023	Excavated	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	1,150

Table 2
Confirmation Soil Sample Analytical Data Summary
Sand Dunes Pad 34
Eddy County, New Mexico
32° 14' 15.23563"N, 103° 46' 17.08436"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					10	50	100/2,500				600/20,000
C-17	Bottom	4.1	01/29/2024	In-Situ	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3	125
		3	09/27/2023	Excavated	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	1,230
C-18	Bottom	4.1	01/29/2024	In-Situ	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	375
		3	09/27/2023	Excavated	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	774
C-19	Bottom	4.1	01/29/2024	In-Situ	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	125
		3	09/27/2023	Excavated	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	898
C-20	Bottom	4.1	01/29/2024	In-Situ	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	490
		3	09/27/2023	Excavated	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	944
C-21	Bottom	4.1	01/29/2024	In-Situ	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	301
		3	09/27/2023	Excavated	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	735
C-22	Bottom	4.1	01/29/2024	In-Situ	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	123
		3	09/27/2023	Excavated	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	1,840
C-23	Bottom	4.1	01/29/2024	In-Situ	<0.00202	<0.00404	<50.4	<50.4	<50.4	<50.4	644
		3	09/27/2023	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	1,180
C-24	Bottom	4.1	01/29/2024	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	460
		3	09/27/2023	Excavated	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	1,590
C-25	Bottom	4.1	01/29/2024	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	152
		3	09/27/2023	Excavated	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	1,100
C-26	Sidewall	4.1	01/29/2024	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	242
		3	09/27/2023	In-Situ	<0.00200	<0.00401	<50.3	<50.3	<50.3	<50.3	247
C-27	Sidewall	0 - 1	09/27/2023	In-Situ	<0.00200	<0.00399	<50.2	<50.2	<50.2	<50.2	264
C-28	Sidewall	0 - 3	09/27/2023	In-Situ	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	320
C-29	Sidewall	0 - 4.1	09/27/2023	Excavated	<0.00199	<0.00398	<49.7	62.1	<49.7	62.1	2,510
			01/29/2024	Excavated	<0.00200	<0.00399	<49.5	123	<49.5	123	68.4
			02/19/2024	In-Situ	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	237
C-30	Bottom	1	11/08/2023	In-Situ	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	53.5
C-31	Bottom	1	11/08/2023	In-Situ	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	87.2

Table 2
Confirmation Soil Sample Analytical Data Summary
Sand Dunes Pad 34
Eddy County, New Mexico
32° 14' 15.23563"N, 103° 46' 17.08436"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					10	50	100/2,500				600/20,000
C-32	Bottom	1	11/08/2023	In-Situ	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	53.1
C-33	Bottom	1	11/08/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	54.0
C-34	Bottom	1	11/08/2023	In-Situ	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	56.1
C-35	Bottom	1	11/08/2023	In-Situ	<0.00200	<0.00401	<50.3	<50.3	<50.3	<50.3	148
C-36	Bottom	3	11/08/2023	In-Situ	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	140
C-37	Bottom	3	11/08/2023	In-Situ	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	51.3
C-38	Sidewall	0 - 3	11/08/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	98.3
BF-1	--	--	01/29/2024	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	72.2
BF-2	--	--	01/29/2024	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	73.3
BF-3	--	--	01/29/2024	In-Situ	<0.00202	<0.00403	<49.6	<49.6	<49.6	<49.6	64.5
BF-4	--	--	01/29/2024	In-Situ	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	80.9
Notes: analysis performed by Eurofins-Xenco (Xenco), in Midland, Texas by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and EPA Method 300 (chloride) mg/Kg: milligrams per kilogram; equivalent to parts per million (ppm) <: indicates that parameter concentration is below method analytical reporting limit Depth reported in feet below ground surface (bgs) Bold and Highlighted indicates parameter concentration is above NMOCD closure criteria											

Figures

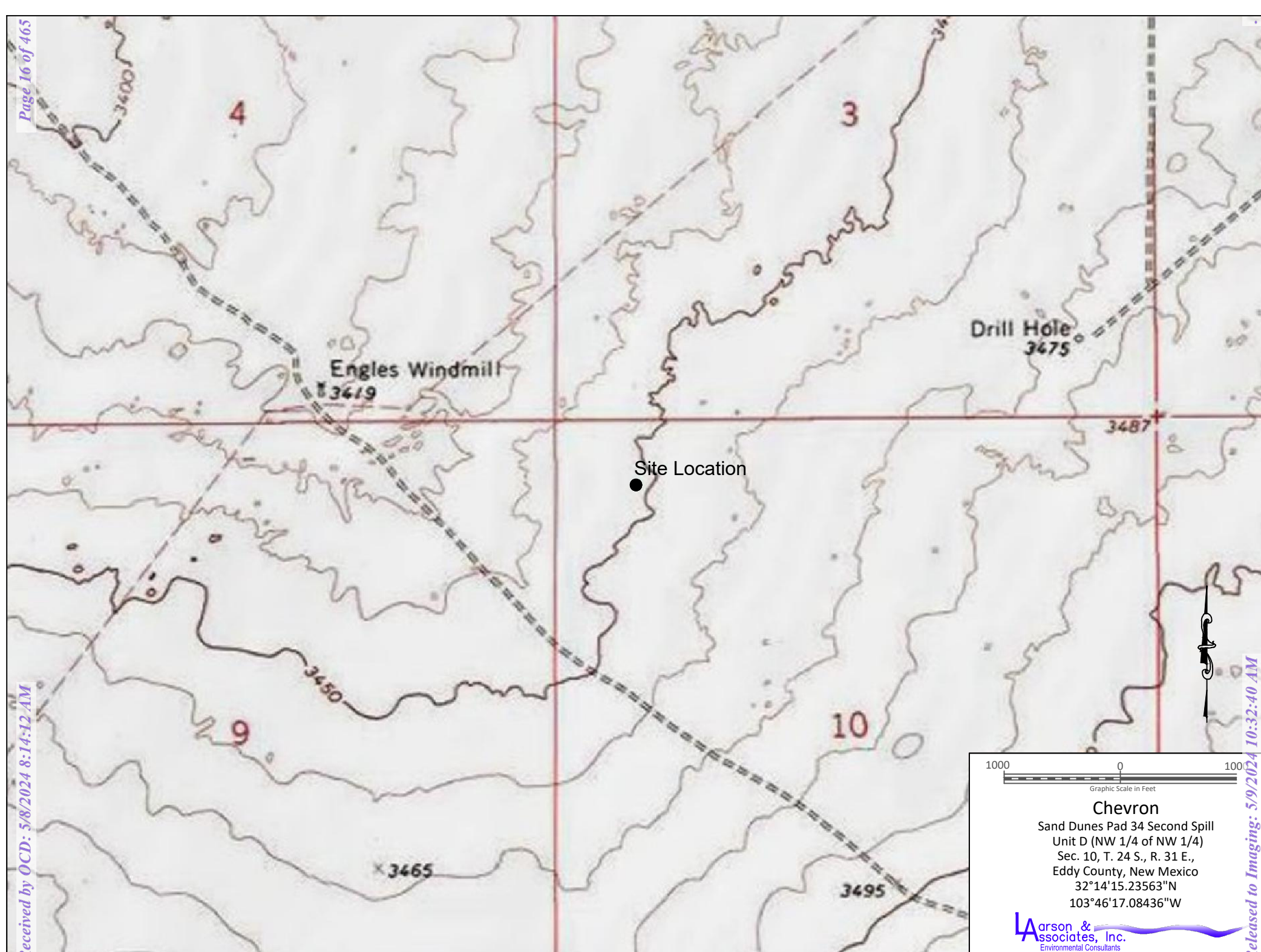
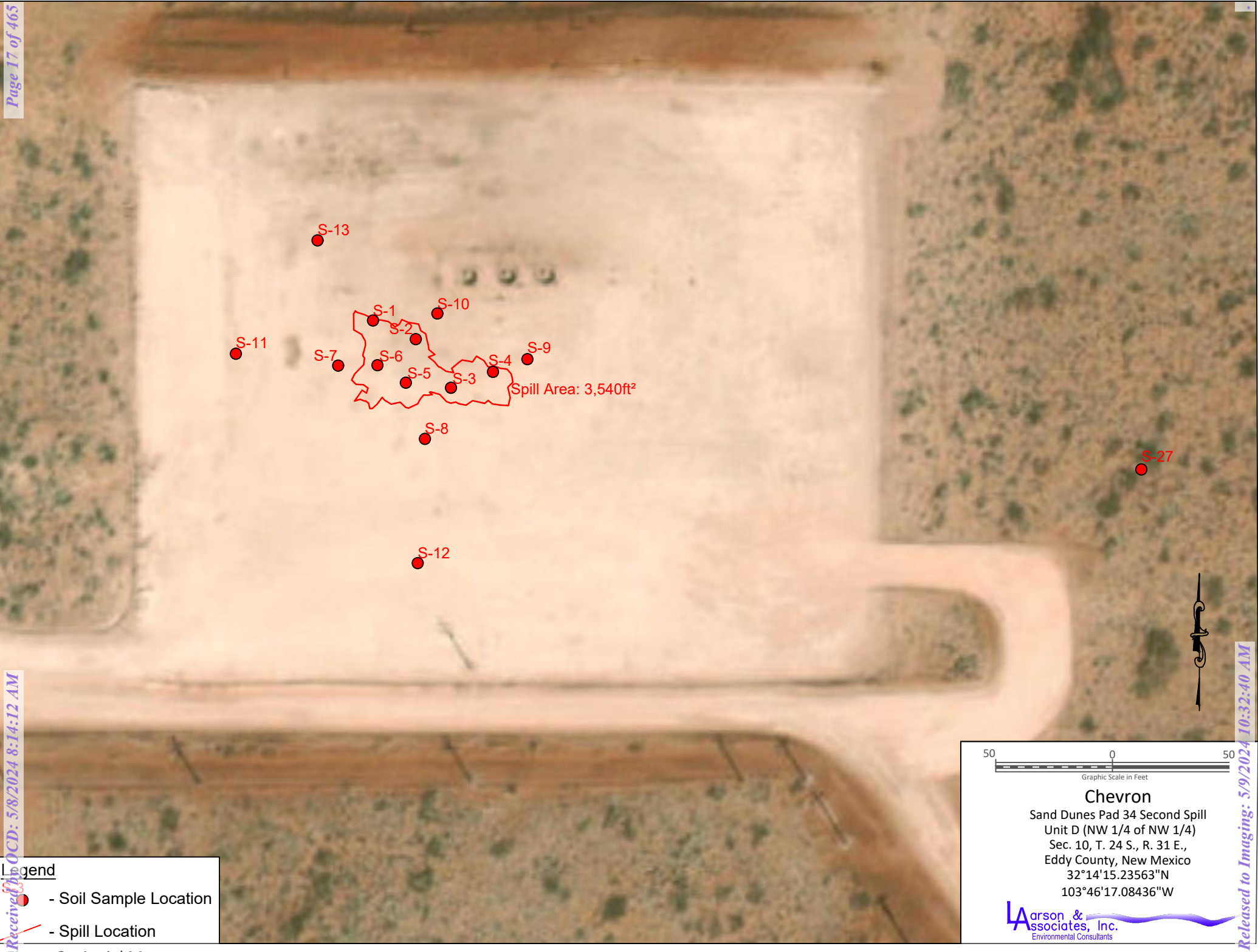


Figure 1 - Topographic Map



Legend

- Soil Sample Location
- Spill Location

50 0 50
Graphic Scale in Feet

Chevron
Sand Dunes Pad 34 Second Spill
Unit D (NW 1/4 of NW 1/4)
Sec. 10, T. 24 S., R. 31 E.,
Eddy County, New Mexico
32°14'15.23563"N
103°46'17.08436"W

Larson & Associates, Inc.
Environmental Consultants

Figure 2 - Aerial Map

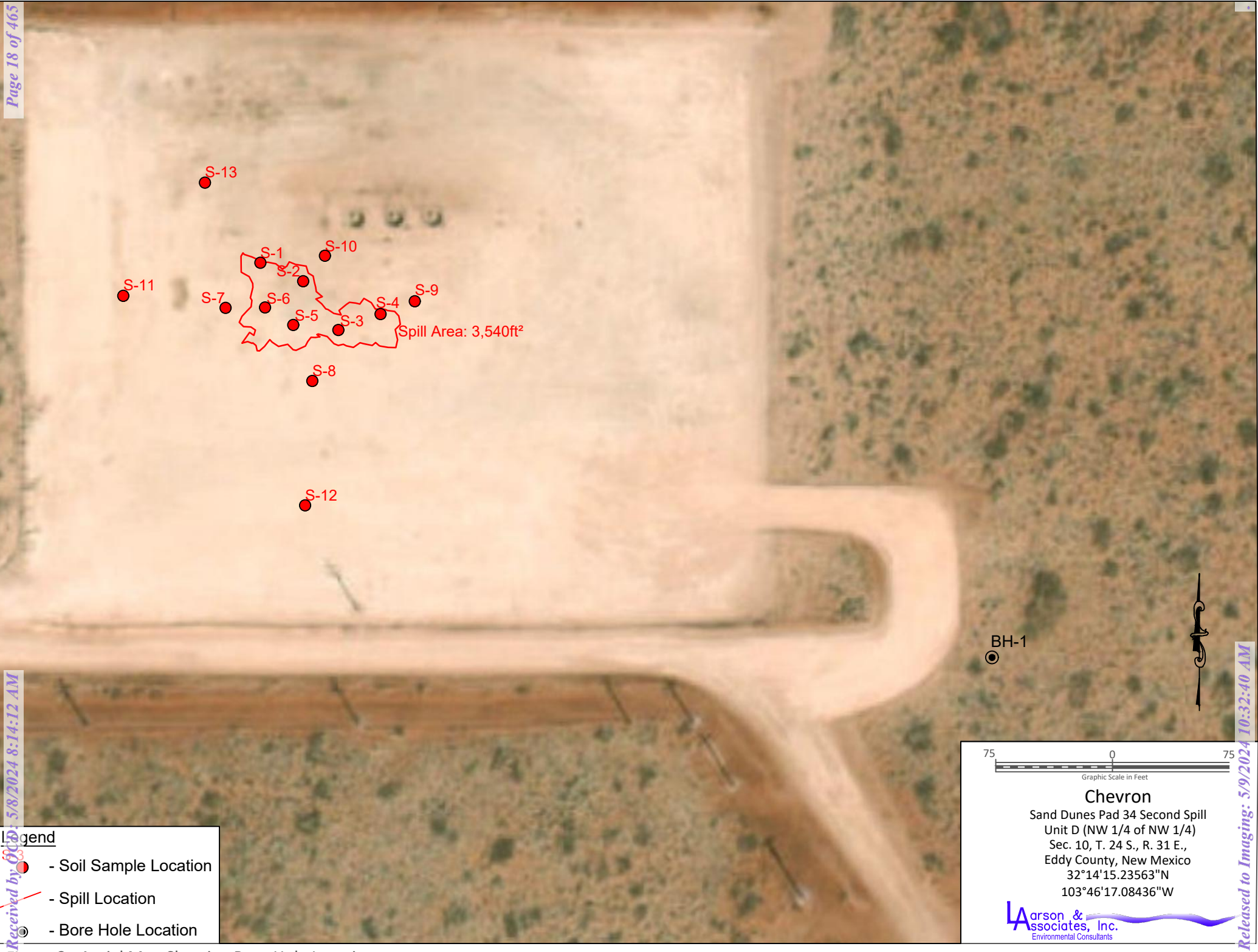
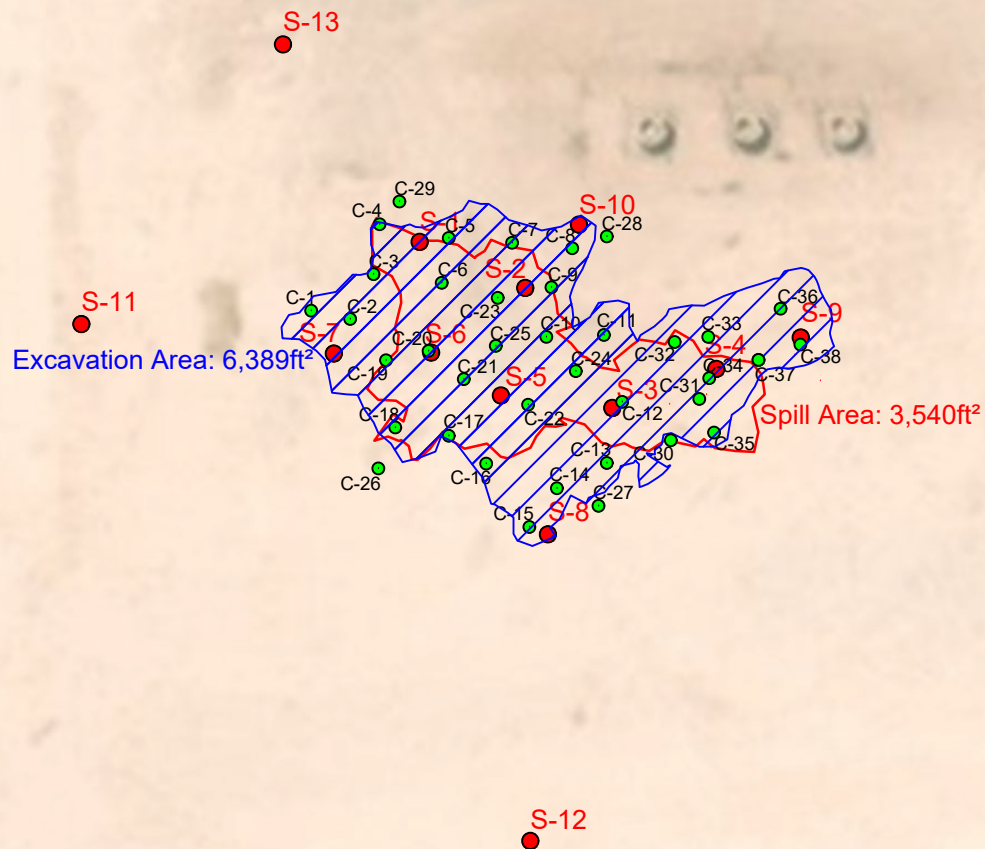


Figure 3 - Aerial Map Showing Bore Hole Location



Legend

- Soil Sample Location
- Spill Location
- Confirmation Sample Location
- Excavation Area

50 0 50
Graphic Scale in Feet

Chevron
Sand Dunes Pad 34 Second Spill
Unit D (NW 1/4 of NW 1/4)
Sec. 10, T. 24 S., R. 31 E.,
Eddy County, New Mexico
32°14'15.23563"N
103°46'17.08436"W

Larson & Associates, Inc.
Environmental Consultants

Figure 4 - Aerial Map Showing Excavation Area

Appendix A

Initial C-141 and Spill Calculation

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2226254935
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

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

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 75	Volume Recovered (bbls) 45
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

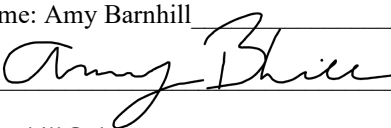
Cause of Release: The discharge pump lost power to the unit and the blender tub overflowed due to the booster pump still running. 35 bbls of produced water were released into a lined secondary containment and 30 bbls of produced water were released to land. 10 bbls of produced water were in the blender tub.

Incident ID	nAPP2226254935
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <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: Amy Barnhill	Title: Water Specialist
Signature: 	Date: 9-19-22
email: ABarnhill@chevron.com	Telephone: 432-687-7108
<u>OCD Only</u>	
Received by: Jocelyn Harimon	Date: 09/20/2022

Incident ID	nAPP2226254935
District RP	
Facility ID	
Application ID	

Spill Calculations:

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

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

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

CONDITIONS

Action 144737

CONDITIONS

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

CONDITIONS

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

Appendix B
Karst Risk Potential

An aerial photograph of a coastal area, likely a beach or dunes. The terrain is sandy and sparsely vegetated. A network of dirt roads or paths crisscrosses the landscape. A red dot is located in the center-left portion of the image, with a white callout box pointing to it. The text inside the box reads "Sand Dunes Pad 34 Second Spill". The word "Low" is printed in black text in the center-right area of the image.

Sand Dunes Pad 34 Second Spill

Low

Appendix C
Soil 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

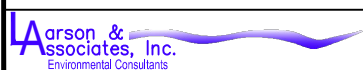
 JOB NUMBER : Sand Dunes Pad 34 - 22-0104-08
 HOLE DIAMETER : 5"

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

LAI GEOLOGIST : D. St. Germain

DRILLING CONTRACTOR : SDI

DRILLING METHOD : Air Rotary


 DRILL DATE :
 03/14/2023

 BORING NUMBER :
 BH-1

Released to Imaging: 5/9/2024 10:32:40 AM

Appendix D
NMOCD Communications

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

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

QUESTIONS

Action 308227

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 308227
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2226254935
Incident Name	NAPP2226254935 SAND DUNES PAD 34 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	SAND DUNES PAD 34
Date Release Discovered	09/08/2022
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	4,000
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/29/2024
Time sampling will commence	09:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Robert Nelson 432-687-0901
Please provide any information necessary for navigation to sampling site	32.237565, -103.771411

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 308227

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 308227
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/26/2024

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

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

QUESTIONS

Action 314336

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 314336
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2226254935
Incident Name	NAPP2226254935 SAND DUNES PAD 34 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	SAND DUNES PAD 34
Date Release Discovered	09/08/2022
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	600
What is the estimated number of samples that will be gathered	3
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/19/2024
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Robert Nelson (432)687-0901
Please provide any information necessary for navigation to sampling site	32.237565, -103.771411

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 314336

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 314336
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/14/2024

Appendix E
Laboratory Reports



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-20035-1

Laboratory Sample Delivery Group: 22-0105-14

Client Project/Site: Sand Dunes (SD) Pad 34

For:

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

Attn: Mr. Mark J Larson

A handwritten signature in cursive script that reads "Holly Taylor".

Authorized for release by:

10/14/2022 3:56:52 PM

Holly Taylor, Project Manager
(806)794-1296

Holly.Taylor@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-20035-1
SDG: 22-0105-14

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	27
Lab Chronicle	32
Certification Summary	37
Method Summary	38
Sample Summary	39
Chain of Custody	40
Receipt Checklists	42

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

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

Job ID: 880-20035-1
SDG: 22-0105-14

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 (SD) Pad 34

Job ID: 880-20035-1
SDG: 22-0105-14

Job ID: 880-20035-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-20035-1

Receipt

The samples were received on 10/6/2022 8:24 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.5° C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1, 0' (880-20035-1), S-1, 0.5' (880-20035-2), S-2, 0' (880-20035-3), S-2, 0.5' (880-20035-4), S-3, 0' (880-20035-5), S-3, 0.5' (880-20035-6), S-4, 0' (880-20035-7), S-4, 0.5' (880-20035-8), S-5, 0' (880-20035-9), S-5, 0.5' (880-20035-10), S-6, 0' (880-20035-11), S-6, 0.5' (880-20035-12), S-7, 0-0.5' (880-20035-13), S-8, 0-0.5' (880-20035-14), S-9, 0-0.5' (880-20035-15) and S-10, 0-0.5' (880-20035-16).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-19920-A-7-H). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-36730 recovered above the upper control limit for Benzene, Toluene and m,p-Xylenes. Another CCV was analyzed and acceptable within the 12 hour window; therefore, the data was qualified and reported. The associated sample is impacted: (CCV 880-36730/20).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-36766 and analytical batch 880-36730 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA

Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-36292 and analytical batch 880-36222 was outside the upper control limits.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: S-1, 0.5' (880-20035-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-36243 and analytical batch 880-36600 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-36394 and analytical batch 880-36739 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Organic Prep

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

VOA Prep

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

Client Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-1, 0'

Date Collected: 10/05/22 10:50

Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/22 08:09	10/11/22 16:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/22 08:09	10/11/22 16:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/22 08:09	10/11/22 16:54	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/11/22 08:09	10/11/22 16:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/22 08:09	10/11/22 16:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/11/22 08:09	10/11/22 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/11/22 08:09	10/11/22 16:54	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/11/22 08:09	10/11/22 16:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	882		50.0	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/06/22 15:51	10/06/22 22:46	1
Diesel Range Organics (Over C10-C28)	650		50.0	mg/Kg		10/06/22 15:51	10/06/22 22:46	1
Oil Range Organics (Over C28-C36)	232		50.0	mg/Kg		10/06/22 15:51	10/06/22 22:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	10/06/22 15:51	10/06/22 22:46	1
o-Terphenyl (Surr)	86		70 - 130	10/06/22 15:51	10/06/22 22:46	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15200		99.6	mg/Kg			10/10/22 18:57	20

Client Sample ID: S-1, 0.5'

Date Collected: 10/05/22 10:52

Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/11/22 08:09	10/11/22 17:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/11/22 08:09	10/11/22 17:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/11/22 08:09	10/11/22 17:15	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/11/22 08:09	10/11/22 17:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/11/22 08:09	10/11/22 17:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/11/22 08:09	10/11/22 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	10/11/22 08:09	10/11/22 17:15	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/11/22 08:09	10/11/22 17:15	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-1, 0.5'

Lab Sample ID: 880-20035-2

Date Collected: 10/05/22 10:52

Matrix: Solid

Date Received: 10/06/22 08:24

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/06/22 15:51	10/06/22 23:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/06/22 15:51	10/06/22 23:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/06/22 15:51	10/06/22 23:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			10/06/22 15:51	10/06/22 23:07	1
o-Terphenyl (Surr)	69	S1-	70 - 130			10/06/22 15:51	10/06/22 23:07	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7860		49.9	mg/Kg			10/10/22 19:20	10

Client Sample ID: S-2, 0'

Lab Sample ID: 880-20035-3

Date Collected: 10/05/22 10:58

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/11/22 08:09	10/11/22 17:35	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/11/22 08:09	10/11/22 17:35	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/11/22 08:09	10/11/22 17:35	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		10/11/22 08:09	10/11/22 17:35	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/11/22 08:09	10/11/22 17:35	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/11/22 08:09	10/11/22 17:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			10/11/22 08:09	10/11/22 17:35	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/11/22 08:09	10/11/22 17:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5340		49.9	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/06/22 15:51	10/06/22 23:29	1
Diesel Range Organics (Over C10-C28)	4120		49.9	mg/Kg		10/06/22 15:51	10/06/22 23:29	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-2, 0'

Lab Sample ID: 880-20035-3

Date Collected: 10/05/22 10:58

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	1220		49.9	mg/Kg		10/06/22 15:51	10/06/22 23:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			10/06/22 15:51	10/06/22 23:29	1
o-Terphenyl (Surr)	77		70 - 130			10/06/22 15:51	10/06/22 23:29	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17200	F1	99.4	mg/Kg			10/10/22 19:26	20

Client Sample ID: S-2, 0.5'

Lab Sample ID: 880-20035-4

Date Collected: 10/05/22 11:03

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/11/22 08:09	10/11/22 17:56	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/11/22 08:09	10/11/22 17:56	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/11/22 08:09	10/11/22 17:56	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		10/11/22 08:09	10/11/22 17:56	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/11/22 08:09	10/11/22 17:56	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/11/22 08:09	10/11/22 17:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			10/11/22 08:09	10/11/22 17:56	1
1,4-Difluorobenzene (Surr)	92		70 - 130			10/11/22 08:09	10/11/22 17:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	226		49.9	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/06/22 15:51	10/06/22 23:50	1
Diesel Range Organics (Over C10-C28)	226		49.9	mg/Kg		10/06/22 15:51	10/06/22 23:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/06/22 15:51	10/06/22 23:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130			10/06/22 15:51	10/06/22 23:50	1
o-Terphenyl (Surr)	78		70 - 130			10/06/22 15:51	10/06/22 23:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3890		25.0	mg/Kg			10/10/22 19:43	5

Eurofins Midland

Client Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-3, 0'

Lab Sample ID: 880-20035-5

Date Collected: 10/05/22 11:06

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/22 08:09	10/11/22 18:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/22 08:09	10/11/22 18:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/22 08:09	10/11/22 18:17	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		10/11/22 08:09	10/11/22 18:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/22 08:09	10/11/22 18:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/11/22 08:09	10/11/22 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/11/22 08:09	10/11/22 18:17	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/11/22 08:09	10/11/22 18:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	538		50.0	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/06/22 15:51	10/07/22 00:11	1
Diesel Range Organics (Over C10-C28)	410		50.0	mg/Kg		10/06/22 15:51	10/07/22 00:11	1
Oil Range Organics (Over C28-C36)	128		50.0	mg/Kg		10/06/22 15:51	10/07/22 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	10/06/22 15:51	10/07/22 00:11	1
o-Terphenyl (Surr)	84		70 - 130	10/06/22 15:51	10/07/22 00:11	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14900		250	mg/Kg			10/10/22 19:49	50

Client Sample ID: S-3, 0.5'

Lab Sample ID: 880-20035-6

Date Collected: 10/05/22 11:09

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/11/22 08:09	10/11/22 18:38	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/11/22 08:09	10/11/22 18:38	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/11/22 08:09	10/11/22 18:38	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		10/11/22 08:09	10/11/22 18:38	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/11/22 08:09	10/11/22 18:38	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/11/22 08:09	10/11/22 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/11/22 08:09	10/11/22 18:38	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/11/22 08:09	10/11/22 18:38	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-3, 0.5'

Lab Sample ID: 880-20035-6

Date Collected: 10/05/22 11:09

Matrix: Solid

Date Received: 10/06/22 08:24

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/06/22 15:51	10/07/22 00:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/06/22 15:51	10/07/22 00:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/06/22 15:51	10/07/22 00:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			10/06/22 15:51	10/07/22 00:33	1
o-Terphenyl (Surr)	73		70 - 130			10/06/22 15:51	10/07/22 00:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		24.8	mg/Kg			10/10/22 20:07	5

Client Sample ID: S-4, 0'

Lab Sample ID: 880-20035-7

Date Collected: 10/05/22 11:13

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/22 16:29	10/12/22 18:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/22 16:29	10/12/22 18:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/22 16:29	10/12/22 18:07	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		10/11/22 16:29	10/12/22 18:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/22 16:29	10/12/22 18:07	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/11/22 16:29	10/12/22 18:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			10/11/22 16:29	10/12/22 18:07	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/11/22 16:29	10/12/22 18:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1530		50.0	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/06/22 15:51	10/07/22 00:54	1
Diesel Range Organics (Over C10-C28)	1150		50.0	mg/Kg		10/06/22 15:51	10/07/22 00:54	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-4, 0'

Lab Sample ID: 880-20035-7

Date Collected: 10/05/22 11:13

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	377		50.0	mg/Kg		10/06/22 15:51	10/07/22 00:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			10/06/22 15:51	10/07/22 00:54	1
o-Terphenyl (Surr)	73		70 - 130			10/06/22 15:51	10/07/22 00:54	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15600		100	mg/Kg			10/10/22 20:13	20

Client Sample ID: S-4, 0.5'

Lab Sample ID: 880-20035-8

Date Collected: 10/05/22 11:15

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/12/22 15:17	10/13/22 06:02	1
Toluene	<0.00200	U * - *1	0.00200	mg/Kg		10/12/22 15:17	10/13/22 06:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/22 15:17	10/13/22 06:02	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		10/12/22 15:17	10/13/22 06:02	1
o-Xylene	<0.00200	U * - F1 *1	0.00200	mg/Kg		10/12/22 15:17	10/13/22 06:02	1
Xylenes, Total	<0.00399	U * - *1	0.00399	mg/Kg		10/12/22 15:17	10/13/22 06:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/12/22 15:17	10/13/22 06:02	1
1,4-Difluorobenzene (Surr)	90		70 - 130			10/12/22 15:17	10/13/22 06:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	122		50.0	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/06/22 15:51	10/07/22 01:15	1
Diesel Range Organics (Over C10-C28)	122		50.0	mg/Kg		10/06/22 15:51	10/07/22 01:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/06/22 15:51	10/07/22 01:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			10/06/22 15:51	10/07/22 01:15	1
o-Terphenyl (Surr)	74		70 - 130			10/06/22 15:51	10/07/22 01:15	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4930		50.5	mg/Kg			10/10/22 20:18	10

Eurofins Midland

Client Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-5, 0'

Lab Sample ID: 880-20035-9

Date Collected: 10/05/22 11:18

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/13/22 13:16	10/14/22 01:01	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/13/22 13:16	10/14/22 01:01	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/13/22 13:16	10/14/22 01:01	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		10/13/22 13:16	10/14/22 01:01	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/13/22 13:16	10/14/22 01:01	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/13/22 13:16	10/14/22 01:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	10/13/22 13:16	10/14/22 01:01	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/13/22 13:16	10/14/22 01:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	163		49.8	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/06/22 15:51	10/07/22 01:59	1
Diesel Range Organics (Over C10-C28)	163		49.8	mg/Kg		10/06/22 15:51	10/07/22 01:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/06/22 15:51	10/07/22 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130	10/06/22 15:51	10/07/22 01:59	1
o-Terphenyl (Surr)	75		70 - 130	10/06/22 15:51	10/07/22 01:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12200		99.4	mg/Kg			10/10/22 20:24	20

Client Sample ID: S-5, 0.5'

Lab Sample ID: 880-20035-10

Date Collected: 10/05/22 11:20

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/13/22 13:16	10/14/22 01:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/13/22 13:16	10/14/22 01:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/13/22 13:16	10/14/22 01:22	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		10/13/22 13:16	10/14/22 01:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/13/22 13:16	10/14/22 01:22	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/13/22 13:16	10/14/22 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/13/22 13:16	10/14/22 01:22	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/13/22 13:16	10/14/22 01:22	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-5, 0.5'

Lab Sample ID: 880-20035-10

Date Collected: 10/05/22 11:20

Matrix: Solid

Date Received: 10/06/22 08:24

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/06/22 15:51	10/07/22 02:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/06/22 15:51	10/07/22 02:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/06/22 15:51	10/07/22 02:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			10/06/22 15:51	10/07/22 02:20	1
o-Terphenyl (Surr)	71		70 - 130			10/06/22 15:51	10/07/22 02:20	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3970		49.8	mg/Kg			10/10/22 20:30	10

Client Sample ID: S-6, 0'

Lab Sample ID: 880-20035-11

Date Collected: 10/05/22 11:23

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/13/22 13:16	10/14/22 01:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/13/22 13:16	10/14/22 01:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/13/22 13:16	10/14/22 01:42	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/13/22 13:16	10/14/22 01:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/13/22 13:16	10/14/22 01:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/13/22 13:16	10/14/22 01:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/13/22 13:16	10/14/22 01:42	1
1,4-Difluorobenzene (Surr)	100		70 - 130			10/13/22 13:16	10/14/22 01:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	637		50.0	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/06/22 15:51	10/07/22 02:42	1
Diesel Range Organics (Over C10-C28)	473		50.0	mg/Kg		10/06/22 15:51	10/07/22 02:42	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-6, 0'

Date Collected: 10/05/22 11:23

Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	164		50.0	mg/Kg		10/06/22 15:51	10/07/22 02:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130			10/06/22 15:51	10/07/22 02:42	1
o-Terphenyl (Surr)	73		70 - 130			10/06/22 15:51	10/07/22 02:42	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9940		99.8	mg/Kg			10/10/22 20:36	20

Client Sample ID: S-6, 0.5'

Date Collected: 10/05/22 11:26

Date Received: 10/06/22 08:24

Lab Sample ID: 880-20035-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/13/22 13:16	10/14/22 02:02	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/13/22 13:16	10/14/22 02:02	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/13/22 13:16	10/14/22 02:02	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		10/13/22 13:16	10/14/22 02:02	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/13/22 13:16	10/14/22 02:02	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/13/22 13:16	10/14/22 02:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/13/22 13:16	10/14/22 02:02	1
1,4-Difluorobenzene (Surr)	105		70 - 130			10/13/22 13:16	10/14/22 02:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.6		50.0	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/06/22 15:51	10/07/22 03:03	1
Diesel Range Organics (Over C10-C28)	72.6		50.0	mg/Kg		10/06/22 15:51	10/07/22 03:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/06/22 15:51	10/07/22 03:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			10/06/22 15:51	10/07/22 03:03	1
o-Terphenyl (Surr)	71		70 - 130			10/06/22 15:51	10/07/22 03:03	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1760		24.8	mg/Kg			10/10/22 20:42	5

Eurofins Midland

Client Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-7, 0-0.5'

Lab Sample ID: 880-20035-13

Date Collected: 10/05/22 11:29

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/13/22 13:16	10/14/22 02:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/13/22 13:16	10/14/22 02:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/13/22 13:16	10/14/22 02:23	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		10/13/22 13:16	10/14/22 02:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/13/22 13:16	10/14/22 02:23	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/13/22 13:16	10/14/22 02:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/13/22 13:16	10/14/22 02:23	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/13/22 13:16	10/14/22 02:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	364		50.0	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/06/22 15:51	10/07/22 03:25	1
Diesel Range Organics (Over C10-C28)	275		50.0	mg/Kg		10/06/22 15:51	10/07/22 03:25	1
Oil Range Organics (Over C28-C36)	88.9		50.0	mg/Kg		10/06/22 15:51	10/07/22 03:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	10/06/22 15:51	10/07/22 03:25	1
o-Terphenyl (Surr)	81		70 - 130	10/06/22 15:51	10/07/22 03:25	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000	F1	24.8	mg/Kg			10/11/22 21:10	5

Client Sample ID: S-8, 0-0.5'

Lab Sample ID: 880-20035-14

Date Collected: 10/05/22 11:31

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/12/22 15:17	10/13/22 14:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/12/22 15:17	10/13/22 14:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/22 15:17	10/13/22 14:45	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/12/22 15:17	10/13/22 14:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/12/22 15:17	10/13/22 14:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/12/22 15:17	10/13/22 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	10/12/22 15:17	10/13/22 14:45	1
1,4-Difluorobenzene (Surr)	80		70 - 130	10/12/22 15:17	10/13/22 14:45	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-8, 0-0.5'

Lab Sample ID: 880-20035-14

Date Collected: 10/05/22 11:31

Matrix: Solid

Date Received: 10/06/22 08:24

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7990		49.8	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	71.4		49.8	mg/Kg		10/06/22 15:51	10/07/22 03:47	1
Diesel Range Organics (Over C10-C28)	7770		49.8	mg/Kg		10/06/22 15:51	10/07/22 03:47	1
Oil Range Organics (Over C28-C36)	152		49.8	mg/Kg		10/06/22 15:51	10/07/22 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130			10/06/22 15:51	10/07/22 03:47	1
o-Terphenyl (Surr)	108		70 - 130			10/06/22 15:51	10/07/22 03:47	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6240		50.0	mg/Kg			10/11/22 21:26	10

Client Sample ID: S-9, 0-0.5'

Lab Sample ID: 880-20035-15

Date Collected: 10/05/22 11:35

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0401	U	0.0401	mg/Kg		10/13/22 13:34	10/14/22 08:38	20
Toluene	<0.0401	U	0.0401	mg/Kg		10/13/22 13:34	10/14/22 08:38	20
Ethylbenzene	<0.0401	U	0.0401	mg/Kg		10/13/22 13:34	10/14/22 08:38	20
m,p-Xylenes	0.119		0.0802	mg/Kg		10/13/22 13:34	10/14/22 08:38	20
o-Xylene	0.0680		0.0401	mg/Kg		10/13/22 13:34	10/14/22 08:38	20
Xylenes, Total	0.187		0.0802	mg/Kg		10/13/22 13:34	10/14/22 08:38	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			10/13/22 13:34	10/14/22 08:38	20
1,4-Difluorobenzene (Surr)	84		70 - 130			10/13/22 13:34	10/14/22 08:38	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.187		0.0802	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.8		49.8	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/06/22 15:51	10/07/22 04:09	1
Diesel Range Organics (Over C10-C28)	71.8		49.8	mg/Kg		10/06/22 15:51	10/07/22 04:09	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-9, 0-0.5'

Lab Sample ID: 880-20035-15

Date Collected: 10/05/22 11:35

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/06/22 15:51	10/07/22 04:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130			10/06/22 15:51	10/07/22 04:09	1
o-Terphenyl (Surr)	84		70 - 130			10/06/22 15:51	10/07/22 04:09	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3770		49.9	mg/Kg			10/11/22 21:32	10

Client Sample ID: S-10, 0-0.5'

Lab Sample ID: 880-20035-16

Date Collected: 10/05/22 11:37

Matrix: Solid

Date Received: 10/06/22 08:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/13/22 13:34	10/14/22 05:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/13/22 13:34	10/14/22 05:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/13/22 13:34	10/14/22 05:34	1
m,p-Xylenes	0.00744		0.00398	mg/Kg		10/13/22 13:34	10/14/22 05:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/13/22 13:34	10/14/22 05:34	1
Xylenes, Total	0.00744		0.00398	mg/Kg		10/13/22 13:34	10/14/22 05:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			10/13/22 13:34	10/14/22 05:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/13/22 13:34	10/14/22 05:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00744		0.00398	mg/Kg			10/12/22 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.9		49.8	mg/Kg			10/07/22 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/06/22 15:51	10/07/22 04:30	1
Diesel Range Organics (Over C10-C28)	64.9		49.8	mg/Kg		10/06/22 15:51	10/07/22 04:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/06/22 15:51	10/07/22 04:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			10/06/22 15:51	10/07/22 04:30	1
o-Terphenyl (Surr)	82		70 - 130			10/06/22 15:51	10/07/22 04:30	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	376		4.97	mg/Kg			10/11/22 21:37	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-20035-1
SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-20035-1	S-1, 0'	115	98
880-20035-2	S-1, 0.5'	119	100
880-20035-3	S-2, 0'	112	94
880-20035-4	S-2, 0.5'	120	92
880-20035-5	S-3, 0'	110	96
880-20035-6	S-3, 0.5'	114	97
880-20035-7	S-4, 0'	105	103
880-20035-8	S-4, 0.5'	98	90
880-20035-8 MS	S-4, 0.5'	120	113
880-20035-8 MSD	S-4, 0.5'	109	95
880-20035-9	S-5, 0'	85	97
880-20035-10	S-5, 0.5'	101	104
880-20035-11	S-6, 0'	99	100
880-20035-12	S-6, 0.5'	98	105
880-20035-13	S-7, 0-0.5'	103	103
880-20035-14	S-8, 0-0.5'	123	80
880-20035-15	S-9, 0-0.5'	89	84
880-20035-16	S-10, 0-0.5'	102	102
LCS 880-36628/1-A	Lab Control Sample	89	92
LCS 880-36699/1-A	Lab Control Sample	100	97
LCS 880-36766/1-A	Lab Control Sample	116	98
LCS 880-36882/1-A	Lab Control Sample	105	102
LCSD 880-36628/2-A	Lab Control Sample Dup	88	93
LCSD 880-36699/2-A	Lab Control Sample Dup	103	104
LCSD 880-36766/2-A	Lab Control Sample Dup	114	100
LCSD 880-36882/2-A	Lab Control Sample Dup	100	98
MB 880-36628/5-A	Method Blank	106	84
MB 880-36699/5-A	Method Blank	90	112
MB 880-36730/8	Method Blank	70	89
MB 880-36731/5-A	Method Blank	88	108
MB 880-36766/5-A	Method Blank	71	87
MB 880-36882/5-A	Method Blank	88	114

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-20035-1	S-1, 0'	89	86
880-20035-2	S-1, 0.5'	77	69 S1-
880-20035-3	S-2, 0'	79	77
880-20035-4	S-2, 0.5'	87	78
880-20035-5	S-3, 0'	89	84
880-20035-6	S-3, 0.5'	79	73
880-20035-7	S-4, 0'	79	73

Eurofins Midland

Surrogate Summary

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

Job ID: 880-20035-1
SDG: 22-0105-14

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-20035-8	S-4, 0.5'	83	74
880-20035-9	S-5, 0'	84	75
880-20035-10	S-5, 0.5'	78	71
880-20035-11	S-6, 0'	81	73
880-20035-12	S-6, 0.5'	77	71
880-20035-13	S-7, 0-0.5'	88	81
880-20035-14	S-8, 0-0.5'	92	108
880-20035-15	S-9, 0-0.5'	90	84
880-20035-16	S-10, 0-0.5'	88	82
LCS 880-36292/2-A	Lab Control Sample	95	92
LCSD 880-36292/3-A	Lab Control Sample Dup	94	90
MB 880-36292/1-A	Method Blank	11 S1-	13 S1-

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-36628/5-A

Matrix: Solid

Analysis Batch: 36625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36628

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/22 08:09	10/11/22 10:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/22 08:09	10/11/22 10:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/22 08:09	10/11/22 10:38	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/11/22 08:09	10/11/22 10:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/22 08:09	10/11/22 10:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/11/22 08:09	10/11/22 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	10/11/22 08:09	10/11/22 10:38	1
1,4-Difluorobenzene (Surr)	84		70 - 130	10/11/22 08:09	10/11/22 10:38	1

Lab Sample ID: LCS 880-36628/1-A

Matrix: Solid

Analysis Batch: 36625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1103		mg/Kg		110	70 - 130
Toluene	0.100	0.1115		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1048		mg/Kg		105	70 - 130
m,p-Xylenes	0.200	0.2169		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1075		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-36628/2-A

Matrix: Solid

Analysis Batch: 36625

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36628

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1090		mg/Kg		109	70 - 130	1	35
Toluene	0.100	0.1103		mg/Kg		110	70 - 130	1	35
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130	2	35
m,p-Xylenes	0.200	0.2070		mg/Kg		104	70 - 130	5	35
o-Xylene	0.100	0.1038		mg/Kg		104	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-36699/5-A

Matrix: Solid

Analysis Batch: 36717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36699

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/11/22 16:29	10/12/22 11:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/11/22 16:29	10/12/22 11:29	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

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

Lab Sample ID: MB 880-36699/5-A

Matrix: Solid

Analysis Batch: 36717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36699

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/11/22 16:29	10/12/22 11:29	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/11/22 16:29	10/12/22 11:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/11/22 16:29	10/12/22 11:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/11/22 16:29	10/12/22 11:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/11/22 16:29	10/12/22 11:29	1
1,4-Difluorobenzene (Surr)	112		70 - 130	10/11/22 16:29	10/12/22 11:29	1

Lab Sample ID: LCS 880-36699/1-A

Matrix: Solid

Analysis Batch: 36717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08151		mg/Kg		82	70 - 130
Toluene	0.100	0.08917		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.07884		mg/Kg		79	70 - 130
m,p-Xylenes	0.200	0.1575		mg/Kg		79	70 - 130
o-Xylene	0.100	0.07833		mg/Kg		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-36699/2-A

Matrix: Solid

Analysis Batch: 36717

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36699

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09035		mg/Kg		90	70 - 130	10	35
Toluene	0.100	0.09725		mg/Kg		97	70 - 130	9	35
Ethylbenzene	0.100	0.08683		mg/Kg		87	70 - 130	10	35
m,p-Xylenes	0.200	0.1722		mg/Kg		86	70 - 130	9	35
o-Xylene	0.100	0.08568		mg/Kg		86	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-36730/8

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			10/12/22 20:09	1
Toluene	<0.00200	U	0.00200	mg/Kg			10/12/22 20:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			10/12/22 20:09	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg			10/12/22 20:09	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

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

Lab Sample ID: MB 880-36730/8

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg			10/12/22 20:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			10/12/22 20:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130				10/12/22 20:09	1
1,4-Difluorobenzene (Surr)	89		70 - 130				10/12/22 20:09	1

Lab Sample ID: MB 880-36731/5-A

Matrix: Solid

Analysis Batch: 36813

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36731

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/12/22 10:00	10/13/22 11:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/12/22 10:00	10/13/22 11:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/22 10:00	10/13/22 11:21	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/12/22 10:00	10/13/22 11:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/12/22 10:00	10/13/22 11:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/12/22 10:00	10/13/22 11:21	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			10/12/22 10:00	10/13/22 11:21	1
1,4-Difluorobenzene (Surr)	108		70 - 130			10/12/22 10:00	10/13/22 11:21	1

Lab Sample ID: MB 880-36766/5-A

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36766

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/12/22 15:17	10/13/22 05:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/12/22 15:17	10/13/22 05:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/22 15:17	10/13/22 05:37	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/12/22 15:17	10/13/22 05:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/12/22 15:17	10/13/22 05:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/12/22 15:17	10/13/22 05:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130			10/12/22 15:17	10/13/22 05:37	1
1,4-Difluorobenzene (Surr)	87		70 - 130			10/12/22 15:17	10/13/22 05:37	1

Lab Sample ID: LCS 880-36766/1-A

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1072		mg/Kg		107	70 - 130
Toluene	0.100	0.09832		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130
m,p-Xylenes	0.200	0.2239		mg/Kg		112	70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

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

Lab Sample ID: LCS 880-36766/1-A

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1017		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-36766/2-A

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36766

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09483		mg/Kg		95	70 - 130	12	35
Toluene	0.100	0.08791		mg/Kg		88	70 - 130	11	35
Ethylbenzene	0.100	0.09723		mg/Kg		97	70 - 130	10	35
m,p-Xylenes	0.200	0.2023		mg/Kg		101	70 - 130	10	35
o-Xylene	0.100	0.09285		mg/Kg		93	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-20035-8 MS

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: S-4, 0.5'

Prep Type: Total/NA

Prep Batch: 36766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.1017		mg/Kg		102	70 - 130
Toluene	<0.00200	U *- *1	0.0996	0.09605		mg/Kg		96	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.08450		mg/Kg		85	70 - 130
m,p-Xylenes	<0.00399	U	0.199	0.1729		mg/Kg		87	70 - 130
o-Xylene	<0.00200	U *- F1 *1	0.0996	0.07821		mg/Kg		79	70 - 130

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

Lab Sample ID: 880-20035-8 MSD

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: S-4, 0.5'

Prep Type: Total/NA

Prep Batch: 36766

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.08868		mg/Kg		89	70 - 130	14	35
Toluene	<0.00200	U *- *1	0.0994	0.08189		mg/Kg		82	70 - 130	16	35
Ethylbenzene	<0.00200	U	0.0994	0.07233		mg/Kg		73	70 - 130	16	35
m,p-Xylenes	<0.00399	U	0.199	0.1456		mg/Kg		73	70 - 130	17	35
o-Xylene	<0.00200	U *- F1 *1	0.0994	0.06724	F1	mg/Kg		68	70 - 130	15	35

Eurofins Midland

QC Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

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

Lab Sample ID: 880-20035-8 MSD

Matrix: Solid

Analysis Batch: 36730

Client Sample ID: S-4, 0.5'

Prep Type: Total/NA

Prep Batch: 36766

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-36882/5-A

Matrix: Solid

Analysis Batch: 36813

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36882

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/13/22 13:16	10/14/22 00:12	1	
Toluene	<0.00200	U	0.00200	mg/Kg		10/13/22 13:16	10/14/22 00:12	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/13/22 13:16	10/14/22 00:12	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/13/22 13:16	10/14/22 00:12	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/13/22 13:16	10/14/22 00:12	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/13/22 13:16	10/14/22 00:12	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	88		70 - 130	10/13/22 13:16	10/14/22 00:12	1			
1,4-Difluorobenzene (Surr)	114		70 - 130	10/13/22 13:16	10/14/22 00:12	1			

Lab Sample ID: LCS 880-36882/1-A

Matrix: Solid

Analysis Batch: 36813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36882

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.09905		mg/Kg		99	70 - 130		
Toluene	0.100	0.1048		mg/Kg		105	70 - 130		
Ethylbenzene	0.100	0.09399		mg/Kg		94	70 - 130		
m,p-Xylenes	0.200	0.1893		mg/Kg		95	70 - 130		
o-Xylene	0.100	0.09263		mg/Kg		93	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-36882/2-A

Matrix: Solid

Analysis Batch: 36813

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36882

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09547		mg/Kg		95	70 - 130	4	35	
Toluene	0.100	0.1023		mg/Kg		102	70 - 130	2	35	
Ethylbenzene	0.100	0.09025		mg/Kg		90	70 - 130	4	35	
m,p-Xylenes	0.200	0.1844		mg/Kg		92	70 - 130	3	35	
o-Xylene	0.100	0.09137		mg/Kg		91	70 - 130	1	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130

Eurofins Midland

QC Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

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

Lab Sample ID: LCSD 880-36882/2-A

Matrix: Solid

Analysis Batch: 36813

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36882

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

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

Lab Sample ID: MB 880-36292/1-A

Matrix: Solid

Analysis Batch: 36222

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36292

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/06/22 15:51	10/06/22 19:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/06/22 15:51	10/06/22 19:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/06/22 15:51	10/06/22 19:28	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
%Recovery	Qualifier							
1-Chlorooctane (Surr)	11	S1-	70 - 130			10/06/22 15:51	10/06/22 19:28	1
o-Terphenyl (Surr)	13	S1-	70 - 130			10/06/22 15:51	10/06/22 19:28	1

Lab Sample ID: LCS 880-36292/2-A

Matrix: Solid

Analysis Batch: 36222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	954.5		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	872.9		mg/Kg		87	70 - 130
Surrogate	LCS	LCS	Limits				
%Recovery	Qualifier						
1-Chlorooctane (Surr)	95		70 - 130				
o-Terphenyl (Surr)	92		70 - 130				

Lab Sample ID: LCSD 880-36292/3-A

Matrix: Solid

Analysis Batch: 36222

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36292

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	937.8		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	848.7		mg/Kg		85	70 - 130	3	20
Surrogate	LCSD	LCSD	Limits						
%Recovery	Qualifier								
1-Chlorooctane (Surr)	94		70 - 130						
o-Terphenyl (Surr)	90		70 - 130						

Eurofins Midland

QC Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-36243/1-A

Matrix: Solid

Analysis Batch: 36600

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/10/22 17:47	1

Lab Sample ID: LCS 880-36243/2-A

Matrix: Solid

Analysis Batch: 36600

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.7		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-36243/3-A

Matrix: Solid

Analysis Batch: 36600

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	241.5		mg/Kg		97	90 - 110	6	20

Lab Sample ID: 880-20035-3 MS

Matrix: Solid

Analysis Batch: 36600

Client Sample ID: S-2, 0'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	17200	F1	4970	19830	F1	mg/Kg		54	90 - 110

Lab Sample ID: 880-20035-3 MSD

Matrix: Solid

Analysis Batch: 36600

Client Sample ID: S-2, 0'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	17200	F1	4970	20840	F1	mg/Kg		74	90 - 110	5	20

Lab Sample ID: MB 880-36394/1-A

Matrix: Solid

Analysis Batch: 36739

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/11/22 20:54	1

Lab Sample ID: LCS 880-36394/2-A

Matrix: Solid

Analysis Batch: 36739

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.9		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-36394/3-A

Matrix: Solid

Analysis Batch: 36739

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	269.0		mg/Kg		108	90 - 110	4	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-20035-1
SDG: 22-0105-14

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-20035-13 MS							Client Sample ID: S-7, 0-0.5'				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 36739											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2000	F1	1240	3288		mg/Kg		104	90 - 110		

Lab Sample ID: 880-20035-13 MSD							Client Sample ID: S-7, 0-0.5'				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 36739											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2000	F1	1240	2767	F1	mg/Kg		62	90 - 110	17	20

QC Association Summary

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

Job ID: 880-20035-1
SDG: 22-0105-14

GC VOA

Analysis Batch: 36625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Total/NA	Solid	8021B	36628
880-20035-2	S-1, 0.5'	Total/NA	Solid	8021B	36628
880-20035-3	S-2, 0'	Total/NA	Solid	8021B	36628
880-20035-4	S-2, 0.5'	Total/NA	Solid	8021B	36628
880-20035-5	S-3, 0'	Total/NA	Solid	8021B	36628
880-20035-6	S-3, 0.5'	Total/NA	Solid	8021B	36628
MB 880-36628/5-A	Method Blank	Total/NA	Solid	8021B	36628
LCS 880-36628/1-A	Lab Control Sample	Total/NA	Solid	8021B	36628
LCSD 880-36628/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36628

Prep Batch: 36628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Total/NA	Solid	5035	
880-20035-2	S-1, 0.5'	Total/NA	Solid	5035	
880-20035-3	S-2, 0'	Total/NA	Solid	5035	
880-20035-4	S-2, 0.5'	Total/NA	Solid	5035	
880-20035-5	S-3, 0'	Total/NA	Solid	5035	
880-20035-6	S-3, 0.5'	Total/NA	Solid	5035	
MB 880-36628/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36628/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36628/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 36699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-7	S-4, 0'	Total/NA	Solid	5035	
MB 880-36699/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36699/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36699/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 36717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-7	S-4, 0'	Total/NA	Solid	8021B	36699
MB 880-36699/5-A	Method Blank	Total/NA	Solid	8021B	36699
LCS 880-36699/1-A	Lab Control Sample	Total/NA	Solid	8021B	36699
LCSD 880-36699/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36699

Analysis Batch: 36730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-8	S-4, 0.5'	Total/NA	Solid	8021B	36766
880-20035-14	S-8, 0-0.5'	Total/NA	Solid	8021B	36766
MB 880-36730/8	Method Blank	Total/NA	Solid	8021B	
MB 880-36766/5-A	Method Blank	Total/NA	Solid	8021B	36766
LCS 880-36766/1-A	Lab Control Sample	Total/NA	Solid	8021B	36766
LCSD 880-36766/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36766
880-20035-8 MS	S-4, 0.5'	Total/NA	Solid	8021B	36766
880-20035-8 MSD	S-4, 0.5'	Total/NA	Solid	8021B	36766

Prep Batch: 36731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-36731/5-A	Method Blank	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

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

Job ID: 880-20035-1
SDG: 22-0105-14

GC VOA

Analysis Batch: 36756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Total/NA	Solid	Total BTEX	
880-20035-2	S-1, 0.5'	Total/NA	Solid	Total BTEX	
880-20035-3	S-2, 0'	Total/NA	Solid	Total BTEX	
880-20035-4	S-2, 0.5'	Total/NA	Solid	Total BTEX	
880-20035-5	S-3, 0'	Total/NA	Solid	Total BTEX	
880-20035-6	S-3, 0.5'	Total/NA	Solid	Total BTEX	
880-20035-7	S-4, 0'	Total/NA	Solid	Total BTEX	
880-20035-8	S-4, 0.5'	Total/NA	Solid	Total BTEX	
880-20035-9	S-5, 0'	Total/NA	Solid	Total BTEX	
880-20035-10	S-5, 0.5'	Total/NA	Solid	Total BTEX	
880-20035-11	S-6, 0'	Total/NA	Solid	Total BTEX	
880-20035-12	S-6, 0.5'	Total/NA	Solid	Total BTEX	
880-20035-13	S-7, 0-0.5'	Total/NA	Solid	Total BTEX	
880-20035-14	S-8, 0-0.5'	Total/NA	Solid	Total BTEX	
880-20035-15	S-9, 0-0.5'	Total/NA	Solid	Total BTEX	
880-20035-16	S-10, 0-0.5'	Total/NA	Solid	Total BTEX	

Prep Batch: 36766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-8	S-4, 0.5'	Total/NA	Solid	5035	
880-20035-14	S-8, 0-0.5'	Total/NA	Solid	5035	
MB 880-36766/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-36766/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36766/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20035-8 MS	S-4, 0.5'	Total/NA	Solid	5035	
880-20035-8 MSD	S-4, 0.5'	Total/NA	Solid	5035	

Analysis Batch: 36813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-9	S-5, 0'	Total/NA	Solid	8021B	36882
880-20035-10	S-5, 0.5'	Total/NA	Solid	8021B	36882
880-20035-11	S-6, 0'	Total/NA	Solid	8021B	36882
880-20035-12	S-6, 0.5'	Total/NA	Solid	8021B	36882
880-20035-13	S-7, 0-0.5'	Total/NA	Solid	8021B	36882
880-20035-15	S-9, 0-0.5'	Total/NA	Solid	8021B	36882
880-20035-16	S-10, 0-0.5'	Total/NA	Solid	8021B	36882
MB 880-36731/5-A	Method Blank	Total/NA	Solid	8021B	36731
MB 880-36882/5-A	Method Blank	Total/NA	Solid	8021B	36882
LCS 880-36882/1-A	Lab Control Sample	Total/NA	Solid	8021B	36882
LCSD 880-36882/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36882

Prep Batch: 36882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-9	S-5, 0'	Total/NA	Solid	5035	
880-20035-10	S-5, 0.5'	Total/NA	Solid	5035	
880-20035-11	S-6, 0'	Total/NA	Solid	5035	
880-20035-12	S-6, 0.5'	Total/NA	Solid	5035	
880-20035-13	S-7, 0-0.5'	Total/NA	Solid	5035	
880-20035-15	S-9, 0-0.5'	Total/NA	Solid	5035	
880-20035-16	S-10, 0-0.5'	Total/NA	Solid	5035	
MB 880-36882/5-A	Method Blank	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

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

Job ID: 880-20035-1
SDG: 22-0105-14

GC VOA (Continued)

Prep Batch: 36882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-36882/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-36882/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 36222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Total/NA	Solid	8015B NM	36292
880-20035-2	S-1, 0.5'	Total/NA	Solid	8015B NM	36292
880-20035-3	S-2, 0'	Total/NA	Solid	8015B NM	36292
880-20035-4	S-2, 0.5'	Total/NA	Solid	8015B NM	36292
880-20035-5	S-3, 0'	Total/NA	Solid	8015B NM	36292
880-20035-6	S-3, 0.5'	Total/NA	Solid	8015B NM	36292
880-20035-7	S-4, 0'	Total/NA	Solid	8015B NM	36292
880-20035-8	S-4, 0.5'	Total/NA	Solid	8015B NM	36292
880-20035-9	S-5, 0'	Total/NA	Solid	8015B NM	36292
880-20035-10	S-5, 0.5'	Total/NA	Solid	8015B NM	36292
880-20035-11	S-6, 0'	Total/NA	Solid	8015B NM	36292
880-20035-12	S-6, 0.5'	Total/NA	Solid	8015B NM	36292
880-20035-13	S-7, 0-0.5'	Total/NA	Solid	8015B NM	36292
880-20035-14	S-8, 0-0.5'	Total/NA	Solid	8015B NM	36292
880-20035-15	S-9, 0-0.5'	Total/NA	Solid	8015B NM	36292
880-20035-16	S-10, 0-0.5'	Total/NA	Solid	8015B NM	36292
MB 880-36292/1-A	Method Blank	Total/NA	Solid	8015B NM	36292
LCS 880-36292/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36292
LCSD 880-36292/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36292

Prep Batch: 36292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Total/NA	Solid	8015NM Prep	
880-20035-2	S-1, 0.5'	Total/NA	Solid	8015NM Prep	
880-20035-3	S-2, 0'	Total/NA	Solid	8015NM Prep	
880-20035-4	S-2, 0.5'	Total/NA	Solid	8015NM Prep	
880-20035-5	S-3, 0'	Total/NA	Solid	8015NM Prep	
880-20035-6	S-3, 0.5'	Total/NA	Solid	8015NM Prep	
880-20035-7	S-4, 0'	Total/NA	Solid	8015NM Prep	
880-20035-8	S-4, 0.5'	Total/NA	Solid	8015NM Prep	
880-20035-9	S-5, 0'	Total/NA	Solid	8015NM Prep	
880-20035-10	S-5, 0.5'	Total/NA	Solid	8015NM Prep	
880-20035-11	S-6, 0'	Total/NA	Solid	8015NM Prep	
880-20035-12	S-6, 0.5'	Total/NA	Solid	8015NM Prep	
880-20035-13	S-7, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-20035-14	S-8, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-20035-15	S-9, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-20035-16	S-10, 0-0.5'	Total/NA	Solid	8015NM Prep	
MB 880-36292/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36292/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-36292/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

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

Job ID: 880-20035-1
SDG: 22-0105-14

GC Semi VOA

Analysis Batch: 36364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Total/NA	Solid	8015 NM	
880-20035-2	S-1, 0.5'	Total/NA	Solid	8015 NM	
880-20035-3	S-2, 0'	Total/NA	Solid	8015 NM	
880-20035-4	S-2, 0.5'	Total/NA	Solid	8015 NM	
880-20035-5	S-3, 0'	Total/NA	Solid	8015 NM	
880-20035-6	S-3, 0.5'	Total/NA	Solid	8015 NM	
880-20035-7	S-4, 0'	Total/NA	Solid	8015 NM	
880-20035-8	S-4, 0.5'	Total/NA	Solid	8015 NM	
880-20035-9	S-5, 0'	Total/NA	Solid	8015 NM	
880-20035-10	S-5, 0.5'	Total/NA	Solid	8015 NM	
880-20035-11	S-6, 0'	Total/NA	Solid	8015 NM	
880-20035-12	S-6, 0.5'	Total/NA	Solid	8015 NM	
880-20035-13	S-7, 0-0.5'	Total/NA	Solid	8015 NM	
880-20035-14	S-8, 0-0.5'	Total/NA	Solid	8015 NM	
880-20035-15	S-9, 0-0.5'	Total/NA	Solid	8015 NM	
880-20035-16	S-10, 0-0.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 36243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Soluble	Solid	DI Leach	
880-20035-2	S-1, 0.5'	Soluble	Solid	DI Leach	
880-20035-3	S-2, 0'	Soluble	Solid	DI Leach	
880-20035-4	S-2, 0.5'	Soluble	Solid	DI Leach	
880-20035-5	S-3, 0'	Soluble	Solid	DI Leach	
880-20035-6	S-3, 0.5'	Soluble	Solid	DI Leach	
880-20035-7	S-4, 0'	Soluble	Solid	DI Leach	
880-20035-8	S-4, 0.5'	Soluble	Solid	DI Leach	
880-20035-9	S-5, 0'	Soluble	Solid	DI Leach	
880-20035-10	S-5, 0.5'	Soluble	Solid	DI Leach	
880-20035-11	S-6, 0'	Soluble	Solid	DI Leach	
880-20035-12	S-6, 0.5'	Soluble	Solid	DI Leach	
MB 880-36243/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36243/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36243/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20035-3 MS	S-2, 0'	Soluble	Solid	DI Leach	
880-20035-3 MSD	S-2, 0'	Soluble	Solid	DI Leach	

Leach Batch: 36394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-13	S-7, 0-0.5'	Soluble	Solid	DI Leach	
880-20035-14	S-8, 0-0.5'	Soluble	Solid	DI Leach	
880-20035-15	S-9, 0-0.5'	Soluble	Solid	DI Leach	
880-20035-16	S-10, 0-0.5'	Soluble	Solid	DI Leach	
MB 880-36394/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36394/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36394/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20035-13 MS	S-7, 0-0.5'	Soluble	Solid	DI Leach	
880-20035-13 MSD	S-7, 0-0.5'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

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

Job ID: 880-20035-1
SDG: 22-0105-14

HPLC/IC

Analysis Batch: 36600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-1	S-1, 0'	Soluble	Solid	300.0	36243
880-20035-2	S-1, 0.5'	Soluble	Solid	300.0	36243
880-20035-3	S-2, 0'	Soluble	Solid	300.0	36243
880-20035-4	S-2, 0.5'	Soluble	Solid	300.0	36243
880-20035-5	S-3, 0'	Soluble	Solid	300.0	36243
880-20035-6	S-3, 0.5'	Soluble	Solid	300.0	36243
880-20035-7	S-4, 0'	Soluble	Solid	300.0	36243
880-20035-8	S-4, 0.5'	Soluble	Solid	300.0	36243
880-20035-9	S-5, 0'	Soluble	Solid	300.0	36243
880-20035-10	S-5, 0.5'	Soluble	Solid	300.0	36243
880-20035-11	S-6, 0'	Soluble	Solid	300.0	36243
880-20035-12	S-6, 0.5'	Soluble	Solid	300.0	36243
MB 880-36243/1-A	Method Blank	Soluble	Solid	300.0	36243
LCS 880-36243/2-A	Lab Control Sample	Soluble	Solid	300.0	36243
LCSD 880-36243/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36243
880-20035-3 MS	S-2, 0'	Soluble	Solid	300.0	36243
880-20035-3 MSD	S-2, 0'	Soluble	Solid	300.0	36243

Analysis Batch: 36739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20035-13	S-7, 0-0.5'	Soluble	Solid	300.0	36394
880-20035-14	S-8, 0-0.5'	Soluble	Solid	300.0	36394
880-20035-15	S-9, 0-0.5'	Soluble	Solid	300.0	36394
880-20035-16	S-10, 0-0.5'	Soluble	Solid	300.0	36394
MB 880-36394/1-A	Method Blank	Soluble	Solid	300.0	36394
LCS 880-36394/2-A	Lab Control Sample	Soluble	Solid	300.0	36394
LCSD 880-36394/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36394
880-20035-13 MS	S-7, 0-0.5'	Soluble	Solid	300.0	36394
880-20035-13 MSD	S-7, 0-0.5'	Soluble	Solid	300.0	36394

Lab Chronicle

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-1, 0'**Date Collected: 10/05/22 10:50****Date Received: 10/06/22 08:24****Lab Sample ID: 880-20035-1****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	36628	10/11/22 08:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36625	10/11/22 16:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/06/22 22:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		20			36600	10/10/22 18:57	CH	EET MID

Client Sample ID: S-1, 0.5'**Date Collected: 10/05/22 10:52****Date Received: 10/06/22 08:24****Lab Sample ID: 880-20035-2****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	36628	10/11/22 08:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36625	10/11/22 17:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/06/22 23:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		10			36600	10/10/22 19:20	CH	EET MID

Client Sample ID: S-2, 0'**Date Collected: 10/05/22 10:58****Date Received: 10/06/22 08:24****Lab Sample ID: 880-20035-3****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	36628	10/11/22 08:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36625	10/11/22 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/06/22 23:29	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		20			36600	10/10/22 19:26	CH	EET MID

Client Sample ID: S-2, 0.5'**Date Collected: 10/05/22 11:03****Date Received: 10/06/22 08:24****Lab Sample ID: 880-20035-4****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	36628	10/11/22 08:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36625	10/11/22 17:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-2, 0.5'**Lab Sample ID: 880-20035-4****Date Collected: 10/05/22 11:03****Matrix: Solid****Date Received: 10/06/22 08:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/06/22 23:50	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		5			36600	10/10/22 19:43	CH	EET MID

Client Sample ID: S-3, 0'**Lab Sample ID: 880-20035-5****Date Collected: 10/05/22 11:06****Matrix: Solid****Date Received: 10/06/22 08:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36628	10/11/22 08:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36625	10/11/22 18:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 00:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		50			36600	10/10/22 19:49	CH	EET MID

Client Sample ID: S-3, 0.5'**Lab Sample ID: 880-20035-6****Date Collected: 10/05/22 11:09****Matrix: Solid****Date Received: 10/06/22 08:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	36628	10/11/22 08:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36625	10/11/22 18:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 00:33	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		5			36600	10/10/22 20:07	CH	EET MID

Client Sample ID: S-4, 0'**Lab Sample ID: 880-20035-7****Date Collected: 10/05/22 11:13****Matrix: Solid****Date Received: 10/06/22 08:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	36699	10/11/22 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36717	10/12/22 18:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 00:54	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-4, 0'**Date Collected: 10/05/22 11:13****Date Received: 10/06/22 08:24****Lab Sample ID: 880-20035-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		20			36600	10/10/22 20:13	CH	EET MID

Client Sample ID: S-4, 0.5'**Date Collected: 10/05/22 11:15****Date Received: 10/06/22 08:24****Lab Sample ID: 880-20035-8****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36766	10/12/22 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36730	10/13/22 06:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 01:15	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		10			36600	10/10/22 20:18	CH	EET MID

Client Sample ID: S-5, 0'**Date Collected: 10/05/22 11:18****Date Received: 10/06/22 08:24****Lab Sample ID: 880-20035-9****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	36882	10/13/22 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36813	10/14/22 01:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 01:59	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		20			36600	10/10/22 20:24	CH	EET MID

Client Sample ID: S-5, 0.5'**Date Collected: 10/05/22 11:20****Date Received: 10/06/22 08:24****Lab Sample ID: 880-20035-10****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36882	10/13/22 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36813	10/14/22 01:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 02:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		10			36600	10/10/22 20:30	CH	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-6, 0'**Date Collected: 10/05/22 11:23****Date Received: 10/06/22 08:24****Lab Sample ID: 880-20035-11****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	36882	10/13/22 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36813	10/14/22 01:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 02:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		20			36600	10/10/22 20:36	CH	EET MID

Client Sample ID: S-6, 0.5'**Date Collected: 10/05/22 11:26****Date Received: 10/06/22 08:24****Lab Sample ID: 880-20035-12****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	36882	10/13/22 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36813	10/14/22 02:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 03:03	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36243	10/06/22 09:56	CH	EET MID
Soluble	Analysis	300.0		5			36600	10/10/22 20:42	CH	EET MID

Client Sample ID: S-7, 0-0.5'**Date Collected: 10/05/22 11:29****Date Received: 10/06/22 08:24****Lab Sample ID: 880-20035-13****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	36882	10/13/22 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36813	10/14/22 02:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 03:25	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	36394	10/07/22 15:14	CH	EET MID
Soluble	Analysis	300.0		5			36739	10/11/22 21:10	CH	EET MID

Client Sample ID: S-8, 0-0.5'**Date Collected: 10/05/22 11:31****Date Received: 10/06/22 08:24****Lab Sample ID: 880-20035-14****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	36766	10/12/22 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36730	10/13/22 14:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-20035-1
SDG: 22-0105-14

Client Sample ID: S-8, 0-0.5'**Lab Sample ID: 880-20035-14****Date Collected: 10/05/22 11:31****Matrix: Solid****Date Received: 10/06/22 08:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 03:47	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36394	10/07/22 15:14	CH	EET MID
Soluble	Analysis	300.0		10			36739	10/11/22 21:26	CH	EET MID

Client Sample ID: S-9, 0-0.5'**Lab Sample ID: 880-20035-15****Date Collected: 10/05/22 11:35****Matrix: Solid****Date Received: 10/06/22 08:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	36882	10/13/22 13:34	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	36813	10/14/22 08:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 04:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36394	10/07/22 15:14	CH	EET MID
Soluble	Analysis	300.0		10			36739	10/11/22 21:32	CH	EET MID

Client Sample ID: S-10, 0-0.5'**Lab Sample ID: 880-20035-16****Date Collected: 10/05/22 11:37****Matrix: Solid****Date Received: 10/06/22 08:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	36882	10/13/22 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36813	10/14/22 05:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36756	10/12/22 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			36364	10/07/22 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	36292	10/06/22 15:51	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36222	10/07/22 04:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36394	10/07/22 15:14	CH	EET MID
Soluble	Analysis	300.0		1			36739	10/11/22 21:37	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

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

Job ID: 880-20035-1
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

Method Summary

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

Job ID: 880-20035-1
SDG: 22-0105-14

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

Protocol References:

- ASTM = ASTM International
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

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

Job ID: 880-20035-1
SDG: 22-0105-14

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-20035-1	S-1, 0'	Solid	10/05/22 10:50	10/06/22 08:24
880-20035-2	S-1, 0.5'	Solid	10/05/22 10:52	10/06/22 08:24
880-20035-3	S-2, 0'	Solid	10/05/22 10:58	10/06/22 08:24
880-20035-4	S-2, 0.5'	Solid	10/05/22 11:03	10/06/22 08:24
880-20035-5	S-3, 0'	Solid	10/05/22 11:06	10/06/22 08:24
880-20035-6	S-3, 0.5'	Solid	10/05/22 11:09	10/06/22 08:24
880-20035-7	S-4, 0'	Solid	10/05/22 11:13	10/06/22 08:24
880-20035-8	S-4, 0.5'	Solid	10/05/22 11:15	10/06/22 08:24
880-20035-9	S-5, 0'	Solid	10/05/22 11:18	10/06/22 08:24
880-20035-10	S-5, 0.5'	Solid	10/05/22 11:20	10/06/22 08:24
880-20035-11	S-6, 0'	Solid	10/05/22 11:23	10/06/22 08:24
880-20035-12	S-6, 0.5'	Solid	10/05/22 11:26	10/06/22 08:24
880-20035-13	S-7, 0-0.5'	Solid	10/05/22 11:29	10/06/22 08:24
880-20035-14	S-8, 0-0.5'	Solid	10/05/22 11:31	10/06/22 08:24
880-20035-15	S-9, 0-0.5'	Solid	10/05/22 11:35	10/06/22 08:24
880-20035-16	S-10, 0-0.5'	Solid	10/05/22 11:37	10/06/22 08:24

No. 2804

2003S CHAIN-OF-CUSTODY

Carson & Associates, Inc. Environmental Consultants 507 N. Marienfeld, Ste. 202 Midland, TX 79701 432-687-0901						DATE: <u>10/5/2022</u> PAGE <u>1</u> OF <u>2</u> PO#: _____ LAB WORK ORDER# _____ PROJECT LOCATION OR NAME <u>Sand Dunes (SD) Pad 34</u> LAI PROJECT #: <u>22-0105-14</u> COLLECTOR <u>RW</u>							
Data Reported to			PRESERVATION			# of Containers		Matrix		ANALYSES		FIELD NOTES	
TRRP report? ☐ Yes ☒ No			S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER	HCl	HNO ₃	H ₂ SO ₄	NaOH	UNPRESERVED			
TIME ZONE Time zone/State		Lab #	Date	Time									
<u>MST/UM</u>													
Field Sample ID													
S-1, 0'			10/5/22	1050	S		X				X	X	
S-1, 0.5'				1052									
S-2, 0'				1058									
S-2, 0.5'				1103									
S-3, 0'				1106									
S-3, 0.5'				1109									
S-4, 0'				1113									
S-4, 0.5'				1115									
S-5, 0'				1118									
S-5, 0.5'				1120									
S-6, 0'				1123									
S-6, 0.5'				1124									
S-7, 0-0.5'				1129									
S-8, 0-0.5'				1131									
S-9, 0-0.5'				1135									
TOTAL													

880-20035 Chain of Custody

RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		DATE/TIME	
<u>Bernard Calise</u>		<u>10/10/24</u>		<u>[Signature]</u>		<u>10/10/24</u>	
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		DATE/TIME	
RELINQUISHED BY (Signature)		DATE/TIME		RECEIVED BY (Signature)		DATE/TIME	
LABORATORY		<u>Xeno</u>					

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

LABORATORY USE ONLY:
 RECEIVING TEMP 31.5 THERM# TPB-20
 CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

CHAIN-OF-CUSTODY

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-20035-1

SDG Number: 22-0105-14

Login Number: 20035

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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 12/19/2022 5:50:02 PM

JOB DESCRIPTION

Sand Dunes Pad 34
SDG NUMBER 22-0105-14

JOB NUMBER

880-22119-1

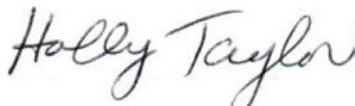
Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization



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

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

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

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

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	36
QC Sample Results	39
QC Association Summary	49
Lab Chronicle	58
Certification Summary	70
Method Summary	71
Sample Summary	72
Chain of Custody	73
Receipt Checklists	76

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

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

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

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 880-22119-1
SDG: 22-0105-14

Job ID: 880-22119-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-22119-1****Receipt**

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

Receipt Exceptions

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

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

GC VOA

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

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

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

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

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

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

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

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

GC Semi VOA

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

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

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

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

Case Narrative

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

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

Job ID: 880-22119-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

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

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

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

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

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

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

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

HPLC/IC

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

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

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

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

Client Sample Results

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

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

Client Sample ID: S8 10'

Lab Sample ID: 880-22119-1

Date Collected: 11/28/22 14:13

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

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

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S3 10'

Lab Sample ID: 880-22119-2

Date Collected: 11/28/22 14:32

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S3 10'

Lab Sample ID: 880-22119-2

Date Collected: 11/28/22 14:32

Matrix: Solid

Date Received: 12/01/22 08:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/06/22 15:06	12/07/22 12:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/06/22 15:06	12/07/22 12:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/22 15:06	12/07/22 12:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	127		70 - 130			12/06/22 15:06	12/07/22 12:04	1
o-Terphenyl (Surr)	146	S1+	70 - 130			12/06/22 15:06	12/07/22 12:04	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S4 10'

Lab Sample ID: 880-22119-3

Date Collected: 11/28/22 15:08

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/01/22 11:05	12/05/22 01:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/01/22 11:05	12/05/22 01:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/01/22 11:05	12/05/22 01:40	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/01/22 11:05	12/05/22 01:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/01/22 11:05	12/05/22 01:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/01/22 11:05	12/05/22 01:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			12/01/22 11:05	12/05/22 01:40	1
1,4-Difluorobenzene (Surr)	99		70 - 130			12/01/22 11:05	12/05/22 01:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S4 10'

Lab Sample ID: 880-22119-3

Date Collected: 11/28/22 15:08

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/22 15:06	12/07/22 12:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130			12/06/22 15:06	12/07/22 12:26	1
o-Terphenyl (Surr)	142	S1+	70 - 130			12/06/22 15:06	12/07/22 12:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S9 10'

Lab Sample ID: 880-22119-4

Date Collected: 11/28/22 08:52

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/22 11:05	12/05/22 02:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/22 11:05	12/05/22 02:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/22 11:05	12/05/22 02:01	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/01/22 11:05	12/05/22 02:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/22 11:05	12/05/22 02:01	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/01/22 11:05	12/05/22 02:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			12/01/22 11:05	12/05/22 02:01	1
1,4-Difluorobenzene (Surr)	105		70 - 130			12/01/22 11:05	12/05/22 02:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 12:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 12:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 12:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	134	S1+	70 - 130			12/06/22 15:06	12/07/22 12:49	1
o-Terphenyl (Surr)	153	S1+	70 - 130			12/06/22 15:06	12/07/22 12:49	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S5 10'

Lab Sample ID: 880-22119-5

Date Collected: 11/29/22 09:20

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

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

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S5 5'

Lab Sample ID: 880-22119-6

Date Collected: 11/29/22 09:19

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S5 5'

Lab Sample ID: 880-22119-6

Date Collected: 11/29/22 09:19

Matrix: Solid

Date Received: 12/01/22 08:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 13:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 13:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 13:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	134	S1+	70 - 130			12/06/22 15:06	12/07/22 13:33	1
o-Terphenyl (Surr)	152	S1+	70 - 130			12/06/22 15:06	12/07/22 13:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S5 3'

Lab Sample ID: 880-22119-7

Date Collected: 11/29/22 09:18

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 12:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 12:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 12:32	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/01/22 15:55	12/09/22 12:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 12:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/22 15:55	12/09/22 12:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			12/01/22 15:55	12/09/22 12:32	1
1,4-Difluorobenzene (Surr)	114		70 - 130			12/01/22 15:55	12/09/22 12:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S5 3'

Lab Sample ID: 880-22119-7

Date Collected: 11/29/22 09:18

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/06/22 15:06	12/07/22 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			12/06/22 15:06	12/07/22 13:55	1
o-Terphenyl (Surr)	130		70 - 130			12/06/22 15:06	12/07/22 13:55	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S5 1'

Lab Sample ID: 880-22119-8

Date Collected: 11/29/22 09:17

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 12:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 12:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 12:52	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/01/22 15:55	12/09/22 12:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 12:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/22 15:55	12/09/22 12:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			12/01/22 15:55	12/09/22 12:52	1
1,4-Difluorobenzene (Surr)	78		70 - 130			12/01/22 15:55	12/09/22 12:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/06/22 15:06	12/07/22 14:18	1
Diesel Range Organics (Over C10-C28)	83.4		49.9	mg/Kg		12/06/22 15:06	12/07/22 14:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/22 15:06	12/07/22 14:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	142	S1+	70 - 130			12/06/22 15:06	12/07/22 14:18	1
o-Terphenyl (Surr)	161	S1+	70 - 130			12/06/22 15:06	12/07/22 14:18	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S8 5'

Lab Sample ID: 880-22119-9

Date Collected: 11/29/22 14:12

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

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

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S8 3'

Lab Sample ID: 880-22119-10

Date Collected: 11/29/22 14:11

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S8 3'

Lab Sample ID: 880-22119-10

Date Collected: 11/29/22 14:11

Matrix: Solid

Date Received: 12/01/22 08:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 15:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 15:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 15:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	138	S1+	70 - 130			12/06/22 15:06	12/07/22 15:02	1
o-Terphenyl (Surr)	156	S1+	70 - 130			12/06/22 15:06	12/07/22 15:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S8 1'

Lab Sample ID: 880-22119-11

Date Collected: 11/29/22 14:10

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 13:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 13:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 13:54	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/01/22 15:55	12/09/22 13:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 13:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/22 15:55	12/09/22 13:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			12/01/22 15:55	12/09/22 13:54	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/01/22 15:55	12/09/22 13:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S8 1'

Lab Sample ID: 880-22119-11

Date Collected: 11/29/22 14:10

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/22 15:06	12/07/22 15:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	139	S1+	70 - 130			12/06/22 15:06	12/07/22 15:47	1
o-Terphenyl (Surr)	158	S1+	70 - 130			12/06/22 15:06	12/07/22 15:47	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S3 5'

Lab Sample ID: 880-22119-12

Date Collected: 11/29/22 14:31

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/22 15:55	12/09/22 14:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/22 15:55	12/09/22 14:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/22 15:55	12/09/22 14:15	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/01/22 15:55	12/09/22 14:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/22 15:55	12/09/22 14:15	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/01/22 15:55	12/09/22 14:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			12/01/22 15:55	12/09/22 14:15	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/01/22 15:55	12/09/22 14:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 16:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 16:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	140	S1+	70 - 130			12/06/22 15:06	12/07/22 16:13	1
o-Terphenyl (Surr)	159	S1+	70 - 130			12/06/22 15:06	12/07/22 16:13	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S3 3'

Lab Sample ID: 880-22119-13

Date Collected: 11/29/22 14:30

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

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

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S3 1'

Lab Sample ID: 880-22119-14

Date Collected: 11/29/22 14:29

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S3 1'

Lab Sample ID: 880-22119-14

Date Collected: 11/29/22 14:29

Matrix: Solid

Date Received: 12/01/22 08:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 16:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 16:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 16:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	136	S1+	70 - 130			12/06/22 15:06	12/07/22 16:57	1
o-Terphenyl (Surr)	157	S1+	70 - 130			12/06/22 15:06	12/07/22 16:57	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S4 5'

Lab Sample ID: 880-22119-15

Date Collected: 11/29/22 15:07

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/01/22 15:55	12/09/22 15:17	1
Toluene	0.00222		0.00202	mg/Kg		12/01/22 15:55	12/09/22 15:17	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/01/22 15:55	12/09/22 15:17	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		12/01/22 15:55	12/09/22 15:17	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/01/22 15:55	12/09/22 15:17	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/01/22 15:55	12/09/22 15:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			12/01/22 15:55	12/09/22 15:17	1
1,4-Difluorobenzene (Surr)	99		70 - 130			12/01/22 15:55	12/09/22 15:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S4 5'

Lab Sample ID: 880-22119-15

Date Collected: 11/29/22 15:07

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 17:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130			12/06/22 15:06	12/07/22 17:19	1
o-Terphenyl (Surr)	142	S1+	70 - 130			12/06/22 15:06	12/07/22 17:19	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S9 5'

Lab Sample ID: 880-22119-18

Date Collected: 11/29/22 08:51

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/01/22 15:55	12/09/22 16:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/01/22 15:55	12/09/22 16:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/01/22 15:55	12/09/22 16:40	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/01/22 15:55	12/09/22 16:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/01/22 15:55	12/09/22 16:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/01/22 15:55	12/09/22 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			12/01/22 15:55	12/09/22 16:40	1
1,4-Difluorobenzene (Surr)	89		70 - 130			12/01/22 15:55	12/09/22 16:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/06/22 15:06	12/07/22 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/06/22 15:06	12/07/22 17:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/22 15:06	12/07/22 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	145	S1+	70 - 130			12/06/22 15:06	12/07/22 17:41	1
o-Terphenyl (Surr)	166	S1+	70 - 130			12/06/22 15:06	12/07/22 17:41	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S9 3'

Lab Sample ID: 880-22119-19

Date Collected: 11/29/22 08:50

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

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

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S9 1'

Lab Sample ID: 880-22119-20

Date Collected: 11/29/22 08:49

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S9 1'

Lab Sample ID: 880-22119-20

Date Collected: 11/29/22 08:49

Matrix: Solid

Date Received: 12/01/22 08:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 18:25	1
Diesel Range Organics (Over C10-C28)	57.1		50.0	mg/Kg		12/06/22 15:06	12/07/22 18:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			12/06/22 15:06	12/07/22 18:25	1
o-Terphenyl (Surr)	132	S1+	70 - 130			12/06/22 15:06	12/07/22 18:25	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S2 10'

Lab Sample ID: 880-22119-21

Date Collected: 11/29/22 10:00

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/22 15:55	12/09/22 17:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/22 15:55	12/09/22 17:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/22 15:55	12/09/22 17:42	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/01/22 15:55	12/09/22 17:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/22 15:55	12/09/22 17:42	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/01/22 15:55	12/09/22 17:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			12/01/22 15:55	12/09/22 17:42	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/01/22 15:55	12/09/22 17:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S2 10'

Date Collected: 11/29/22 10:00

Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-21

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/07/22 21:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130			12/06/22 11:31	12/07/22 21:00	1
o-Terphenyl (Surr)	141	S1+	70 - 130			12/06/22 11:31	12/07/22 21:00	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S2 5'

Date Collected: 11/29/22 09:59

Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-22

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 18:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 18:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 18:03	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/01/22 15:55	12/09/22 18:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/22 15:55	12/09/22 18:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/22 15:55	12/09/22 18:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	23	S1-	70 - 130			12/01/22 15:55	12/09/22 18:03	1
1,4-Difluorobenzene (Surr)	74		70 - 130			12/01/22 15:55	12/09/22 18:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/06/22 11:31	12/07/22 22:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/06/22 11:31	12/07/22 22:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/22 11:31	12/07/22 22:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130			12/06/22 11:31	12/07/22 22:06	1
o-Terphenyl (Surr)	144	S1+	70 - 130			12/06/22 11:31	12/07/22 22:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S2 3'

Lab Sample ID: 880-22119-23

Date Collected: 11/29/22 09:58

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

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

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S2 1'

Lab Sample ID: 880-22119-24

Date Collected: 11/29/22 09:57

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S2 1'

Lab Sample ID: 880-22119-24

Date Collected: 11/29/22 09:57

Matrix: Solid

Date Received: 12/01/22 08:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/07/22 22:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/07/22 22:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/07/22 22:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	130		70 - 130			12/06/22 11:31	12/07/22 22:51	1
o-Terphenyl (Surr)	151	S1+	70 - 130			12/06/22 11:31	12/07/22 22:51	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S10 10'

Lab Sample ID: 880-22119-25

Date Collected: 11/29/22 09:30

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/22 16:02	12/09/22 21:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/22 16:02	12/09/22 21:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/22 16:02	12/09/22 21:32	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/01/22 16:02	12/09/22 21:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/22 16:02	12/09/22 21:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/22 16:02	12/09/22 21:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			12/01/22 16:02	12/09/22 21:32	1
1,4-Difluorobenzene (Surr)	92		70 - 130			12/01/22 16:02	12/09/22 21:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S10 10'

Lab Sample ID: 880-22119-25

Date Collected: 11/29/22 09:30

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/07/22 23:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			12/06/22 11:31	12/07/22 23:13	1
o-Terphenyl (Surr)	136	S1+	70 - 130			12/06/22 11:31	12/07/22 23:13	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S10 5'

Lab Sample ID: 880-22119-26

Date Collected: 11/29/22 09:29

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/22 16:02	12/09/22 21:53	1
Toluene	0.00264		0.00200	mg/Kg		12/01/22 16:02	12/09/22 21:53	1
Ethylbenzene	0.00228		0.00200	mg/Kg		12/01/22 16:02	12/09/22 21:53	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/01/22 16:02	12/09/22 21:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/22 16:02	12/09/22 21:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/01/22 16:02	12/09/22 21:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			12/01/22 16:02	12/09/22 21:53	1
1,4-Difluorobenzene (Surr)	103		70 - 130			12/01/22 16:02	12/09/22 21:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/07/22 23:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/07/22 23:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/07/22 23:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130			12/06/22 11:31	12/07/22 23:35	1
o-Terphenyl (Surr)	140	S1+	70 - 130			12/06/22 11:31	12/07/22 23:35	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S10 3'

Lab Sample ID: 880-22119-27

Date Collected: 11/29/22 09:28

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

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

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S10 1'

Lab Sample ID: 880-22119-28

Date Collected: 11/29/22 09:27

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S10 1'

Lab Sample ID: 880-22119-28

Date Collected: 11/29/22 09:27

Matrix: Solid

Date Received: 12/01/22 08:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/06/22 11:31	12/08/22 00:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/06/22 11:31	12/08/22 00:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/22 11:31	12/08/22 00:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	148	S1+	70 - 130			12/06/22 11:31	12/08/22 00:18	1
o-Terphenyl (Surr)	173	S1+	70 - 130			12/06/22 11:31	12/08/22 00:18	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S1 10'

Lab Sample ID: 880-22119-29

Date Collected: 11/29/22 10:30

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/22 16:02	12/09/22 22:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/22 16:02	12/09/22 22:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/22 16:02	12/09/22 22:54	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/01/22 16:02	12/09/22 22:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/22 16:02	12/09/22 22:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/22 16:02	12/09/22 22:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			12/01/22 16:02	12/09/22 22:54	1
1,4-Difluorobenzene (Surr)	98		70 - 130			12/01/22 16:02	12/09/22 22:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S1 10'

Lab Sample ID: 880-22119-29

Date Collected: 11/29/22 10:30

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 00:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	137	S1+	70 - 130			12/06/22 11:31	12/08/22 00:39	1
o-Terphenyl (Surr)	162	S1+	70 - 130			12/06/22 11:31	12/08/22 00:39	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S1 5'

Lab Sample ID: 880-22119-30

Date Collected: 11/29/22 10:29

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/22 16:02	12/09/22 23:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/22 16:02	12/09/22 23:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/22 16:02	12/09/22 23:14	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/01/22 16:02	12/09/22 23:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/22 16:02	12/09/22 23:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/22 16:02	12/09/22 23:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			12/01/22 16:02	12/09/22 23:14	1
1,4-Difluorobenzene (Surr)	106		70 - 130			12/01/22 16:02	12/09/22 23:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 01:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 01:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 01:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	130		70 - 130			12/06/22 11:31	12/08/22 01:01	1
o-Terphenyl (Surr)	150	S1+	70 - 130			12/06/22 11:31	12/08/22 01:01	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S1 3'

Lab Sample ID: 880-22119-31

Date Collected: 11/29/22 10:28

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

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

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S1 1'

Lab Sample ID: 880-22119-32

Date Collected: 11/29/22 10:27

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S1 1'

Lab Sample ID: 880-22119-32

Date Collected: 11/29/22 10:27

Matrix: Solid

Date Received: 12/01/22 08:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 02:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 02:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 02:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	149	S1+	70 - 130			12/06/22 11:31	12/08/22 02:06	1
o-Terphenyl (Surr)	171	S1+	70 - 130			12/06/22 11:31	12/08/22 02:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S7 10'

Lab Sample ID: 880-22119-33

Date Collected: 11/29/22 10:45

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/01/22 16:02	12/10/22 00:15	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/01/22 16:02	12/10/22 00:15	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/01/22 16:02	12/10/22 00:15	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/01/22 16:02	12/10/22 00:15	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/01/22 16:02	12/10/22 00:15	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/01/22 16:02	12/10/22 00:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			12/01/22 16:02	12/10/22 00:15	1
1,4-Difluorobenzene (Surr)	99		70 - 130			12/01/22 16:02	12/10/22 00:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S7 10'

Lab Sample ID: 880-22119-33

Date Collected: 11/29/22 10:45

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 02:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	126		70 - 130			12/06/22 11:31	12/08/22 02:27	1
o-Terphenyl (Surr)	146	S1+	70 - 130			12/06/22 11:31	12/08/22 02:27	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S7 5'

Lab Sample ID: 880-22119-34

Date Collected: 11/29/22 10:44

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/01/22 16:02	12/10/22 02:05	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/01/22 16:02	12/10/22 02:05	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/01/22 16:02	12/10/22 02:05	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		12/01/22 16:02	12/10/22 02:05	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/01/22 16:02	12/10/22 02:05	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/01/22 16:02	12/10/22 02:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			12/01/22 16:02	12/10/22 02:05	1
1,4-Difluorobenzene (Surr)	97		70 - 130			12/01/22 16:02	12/10/22 02:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 02:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 02:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 02:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	138	S1+	70 - 130			12/06/22 11:31	12/08/22 02:49	1
o-Terphenyl (Surr)	157	S1+	70 - 130			12/06/22 11:31	12/08/22 02:49	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S7 3'

Lab Sample ID: 880-22119-35

Date Collected: 11/29/22 10:43

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

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

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S7 1'

Lab Sample ID: 880-22119-36

Date Collected: 11/29/22 10:42

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S7 1'

Lab Sample ID: 880-22119-36

Date Collected: 11/29/22 10:42

Matrix: Solid

Date Received: 12/01/22 08:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 03:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 03:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 03:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	139	S1+	70 - 130			12/06/22 11:31	12/08/22 03:32	1
o-Terphenyl (Surr)	166	S1+	70 - 130			12/06/22 11:31	12/08/22 03:32	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S6 10'

Lab Sample ID: 880-22119-37

Date Collected: 11/29/22 11:10

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/22 16:02	12/10/22 03:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/22 16:02	12/10/22 03:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/22 16:02	12/10/22 03:06	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/01/22 16:02	12/10/22 03:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/22 16:02	12/10/22 03:06	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/01/22 16:02	12/10/22 03:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			12/01/22 16:02	12/10/22 03:06	1
1,4-Difluorobenzene (Surr)	96		70 - 130			12/01/22 16:02	12/10/22 03:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S6 10'

Lab Sample ID: 880-22119-37

Date Collected: 11/29/22 11:10

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/22 11:31	12/08/22 03:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	135	S1+	70 - 130			12/06/22 11:31	12/08/22 03:53	1
o-Terphenyl (Surr)	157	S1+	70 - 130			12/06/22 11:31	12/08/22 03:53	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S6 5'

Lab Sample ID: 880-22119-38

Date Collected: 11/29/22 11:09

Matrix: Solid

Date Received: 12/01/22 08:13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/01/22 16:02	12/10/22 03:27	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/01/22 16:02	12/10/22 03:27	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/01/22 16:02	12/10/22 03:27	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		12/01/22 16:02	12/10/22 03:27	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/01/22 16:02	12/10/22 03:27	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/01/22 16:02	12/10/22 03:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			12/01/22 16:02	12/10/22 03:27	1
1,4-Difluorobenzene (Surr)	94		70 - 130			12/01/22 16:02	12/10/22 03:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 04:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 04:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/08/22 04:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	132	S1+	70 - 130			12/06/22 11:31	12/08/22 04:15	1
o-Terphenyl (Surr)	150	S1+	70 - 130			12/06/22 11:31	12/08/22 04:15	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S6 3'

Lab Sample ID: 880-22119-39

Date Collected: 11/29/22 11:08

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

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

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

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: S6 1'

Lab Sample ID: 880-22119-40

Date Collected: 11/29/22 11:07

Matrix: Solid

Date Received: 12/01/22 08:13

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

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

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

Eurofins Midland

Client Sample Results

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

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

Client Sample ID: S6 1'

Lab Sample ID: 880-22119-40

Date Collected: 11/29/22 11:07

Matrix: Solid

Date Received: 12/01/22 08:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/06/22 11:31	12/08/22 04:58	1
Diesel Range Organics (Over C10-C28)	76.4		49.8	mg/Kg		12/06/22 11:31	12/08/22 04:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/06/22 11:31	12/08/22 04:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	131	S1+	70 - 130			12/06/22 11:31	12/08/22 04:58	1
o-Terphenyl (Surr)	152	S1+	70 - 130			12/06/22 11:31	12/08/22 04:58	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Surrogate Summary

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

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

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-22119-1	S8 10'	74	102
880-22119-2	S3 10'	82	101
880-22119-3	S4 10'	89	99
880-22119-4	S9 10'	77	105
880-22119-5	S5 10'	95	110
880-22119-6	S5 5'	113	105
880-22119-6 MS	S5 5'	95	96
880-22119-6 MSD	S5 5'	111	82
880-22119-7	S5 3'	120	114
880-22119-8	S5 1'	119	78
880-22119-9	S8 5'	133 S1+	85
880-22119-10	S8 3'	112	92
880-22119-11	S8 1'	119	102
880-22119-12	S3 5'	125	102
880-22119-13	S3 3'	128	102
880-22119-14	S3 1'	89	69 S1-
880-22119-15	S4 5'	109	99
880-22119-18	S9 5'	118	89
880-22119-19	S9 3'	109	88
880-22119-20	S9 1'	117	92
880-22119-21	S2 10'	118	100
880-22119-22	S2 5'	23 S1-	74
880-22119-23	S2 3'	127	87
880-22119-24	S2 1'	86	99
880-22119-24 MS	S2 1'	84	94
880-22119-24 MSD	S2 1'	79	98
880-22119-25	S10 10'	94	92
880-22119-26	S10 5'	95	103
880-22119-27	S10 3'	103	96
880-22119-28	S10 1'	117	105
880-22119-29	S1 10'	107	98
880-22119-30	S1 5'	117	106
880-22119-31	S1 3'	123	107
880-22119-32	S1 1'	109	97
880-22119-33	S7 10'	117	99
880-22119-34	S7 5'	87	97
880-22119-35	S7 3'	103	92
880-22119-36	S7 1'	119	106
880-22119-37	S6 10'	114	96
880-22119-38	S6 5'	109	94
880-22119-39	S6 3'	120	104
880-22119-40	S6 1'	96	98
LCS 880-40771/1-A	Lab Control Sample	75	99
LCS 880-40824/1-A	Lab Control Sample	97	93
LCS 880-40826/1-A	Lab Control Sample	99	101
LCSD 880-40771/2-A	Lab Control Sample Dup	68 S1-	97
LCSD 880-40824/2-A	Lab Control Sample Dup	105	93
LCSD 880-40826/2-A	Lab Control Sample Dup	106	104
MB 880-40771/5-A	Method Blank	66 S1-	108

Eurofins Midland

Surrogate Summary

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

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

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
MB 880-40824/5-A	Method Blank	102	88
MB 880-40826/5-A	Method Blank	77	94
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

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

Eurofins Midland

Surrogate Summary

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

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

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

Prep Type: Total/NA

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

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

QC Sample Results

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

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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40771/5-A

Matrix: Solid

Analysis Batch: 40980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40771

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

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

Lab Sample ID: LCS 880-40771/1-A

Matrix: Solid

Analysis Batch: 40980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40771

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

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

Lab Sample ID: LCSD 880-40771/2-A

Matrix: Solid

Analysis Batch: 40980

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40771

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

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

Lab Sample ID: MB 880-40824/5-A

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40824

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

Eurofins Midland

QC Sample Results

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

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

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

Lab Sample ID: MB 880-40824/5-A

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40824

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

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

Lab Sample ID: LCS 880-40824/1-A

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40824

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

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

Lab Sample ID: LCSD 880-40824/2-A

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40824

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

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

Lab Sample ID: 880-22119-6 MS

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: S5 5'

Prep Type: Total/NA

Prep Batch: 40824

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

Eurofins Midland

QC Sample Results

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

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

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

Lab Sample ID: 880-22119-6 MS

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: S5 5'

Prep Type: Total/NA

Prep Batch: 40824

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

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

Lab Sample ID: 880-22119-6 MSD

Matrix: Solid

Analysis Batch: 41419

Client Sample ID: S5 5'

Prep Type: Total/NA

Prep Batch: 40824

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

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

Lab Sample ID: MB 880-40826/5-A

Matrix: Solid

Analysis Batch: 41499

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40826

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

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

Lab Sample ID: LCS 880-40826/1-A

Matrix: Solid

Analysis Batch: 41499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40826

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

Eurofins Midland

QC Sample Results

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

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

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

Lab Sample ID: LCS 880-40826/1-A

Matrix: Solid

Analysis Batch: 41499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40826

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

Lab Sample ID: LCSD 880-40826/2-A

Matrix: Solid

Analysis Batch: 41499

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40826

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

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

Lab Sample ID: 880-22119-24 MS

Matrix: Solid

Analysis Batch: 41499

Client Sample ID: S2 1'

Prep Type: Total/NA

Prep Batch: 40826

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

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

Lab Sample ID: 880-22119-24 MSD

Matrix: Solid

Analysis Batch: 41499

Client Sample ID: S2 1'

Prep Type: Total/NA

Prep Batch: 40826

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

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

Eurofins Midland

QC Sample Results

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

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

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

Lab Sample ID: MB 880-41159/1-A

Matrix: Solid

Analysis Batch: 41218

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41159

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/07/22 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/07/22 19:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 11:31	12/07/22 19:53	1

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

Lab Sample ID: LCS 880-41159/2-A

Matrix: Solid

Analysis Batch: 41218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41159

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

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

Lab Sample ID: LCSD 880-41159/3-A

Matrix: Solid

Analysis Batch: 41218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41159

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

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

Lab Sample ID: 880-22119-21 MS

Matrix: Solid

Analysis Batch: 41218

Client Sample ID: S2 10'

Prep Type: Total/NA

Prep Batch: 41159

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

Eurofins Midland

QC Sample Results

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

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

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

Lab Sample ID: 880-22119-21 MS

Matrix: Solid

Analysis Batch: 41218

Client Sample ID: S2 10'

Prep Type: Total/NA

Prep Batch: 41159

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

Lab Sample ID: 880-22119-21 MSD

Matrix: Solid

Analysis Batch: 41218

Client Sample ID: S2 10'

Prep Type: Total/NA

Prep Batch: 41159

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

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

Lab Sample ID: MB 880-41187/1-A

Matrix: Solid

Analysis Batch: 41218

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41187

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 08:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 08:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/22 15:06	12/07/22 08:21	1

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

Lab Sample ID: LCS 880-41187/2-A

Matrix: Solid

Analysis Batch: 41218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41187

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

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

Eurofins Midland

QC Sample Results

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

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

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

Lab Sample ID: LCSD 880-41187/3-A

Matrix: Solid

Analysis Batch: 41218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41187

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	913.7		mg/Kg		91	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	923.1		mg/Kg		92	70 - 130	3	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	153	S1+	70 - 130						
o-Terphenyl (Surr)	181	S1+	70 - 130						

Lab Sample ID: 880-22119-1 MS

Matrix: Solid

Analysis Batch: 41218

Client Sample ID: S8 10'

Prep Type: Total/NA

Prep Batch: 41187

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	<50.0	U F2	999	1236		mg/Kg		124	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1243		mg/Kg		124	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	124		70 - 130								
o-Terphenyl (Surr)	128		70 - 130								

Lab Sample ID: 880-22119-1 MSD

Matrix: Solid

Analysis Batch: 41218

Client Sample ID: S8 10'

Prep Type: Total/NA

Prep Batch: 41187

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	997	992.7	F2	mg/Kg		100	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1153		mg/Kg		116	70 - 130	7	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	115		70 - 130								
o-Terphenyl (Surr)	118		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40834/1-A

Matrix: Solid

Analysis Batch: 40952

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			12/04/22 11:43	1

Eurofins Midland

QC Sample Results

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

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

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-40834/2-A

Matrix: Solid

Analysis Batch: 40952

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-40834/3-A

Matrix: Solid

Analysis Batch: 40952

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-40969/1-A

Matrix: Solid

Analysis Batch: 41027

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/07/22 01:25	1

Lab Sample ID: LCS 880-40969/2-A

Matrix: Solid

Analysis Batch: 41027

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.2		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-40969/3-A

Matrix: Solid

Analysis Batch: 41027

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.6		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-22119-1 MS

Matrix: Solid

Analysis Batch: 41027

Client Sample ID: S8 10'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14.7		249	257.1		mg/Kg		98	90 - 110

Lab Sample ID: 880-22119-1 MSD

Matrix: Solid

Analysis Batch: 41027

Client Sample ID: S8 10'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14.7		249	257.4		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-22119-14 MS

Matrix: Solid

Analysis Batch: 41027

Client Sample ID: S3 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1100		252	1291	4	mg/Kg		74	90 - 110

Eurofins Midland

QC Sample Results

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

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-22119-14 MSD

Matrix: Solid

Analysis Batch: 41027

Client Sample ID: S3 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1100		252	1291	4	mg/Kg		74	90 - 110	0	20

Lab Sample ID: MB 880-40967/1-A

Matrix: Solid

Analysis Batch: 41028

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/07/22 11:13	1

Lab Sample ID: LCS 880-40967/2-A

Matrix: Solid

Analysis Batch: 41028

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.2		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-40967/3-A

Matrix: Solid

Analysis Batch: 41028

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.1		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-22119-26 MS

Matrix: Solid

Analysis Batch: 41028

Client Sample ID: S10 5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	79.4		250	342.5		mg/Kg		105	90 - 110

Lab Sample ID: 880-22119-26 MSD

Matrix: Solid

Analysis Batch: 41028

Client Sample ID: S10 5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	79.4		250	343.3		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-40970/1-A

Matrix: Solid

Analysis Batch: 41029

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/07/22 06:10	1

Lab Sample ID: LCS 880-40970/2-A

Matrix: Solid

Analysis Batch: 41029

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.0		mg/Kg		98	90 - 110

Eurofins Midland

QC Sample Results

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

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-40970/3-A

Matrix: Solid

Analysis Batch: 41029

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	246.2		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-22119-31 MS

Matrix: Solid

Analysis Batch: 41029

Client Sample ID: S1 3'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4620	F1	2520	7521	F1	mg/Kg		115	90 - 110		

Lab Sample ID: 880-22119-31 MSD

Matrix: Solid

Analysis Batch: 41029

Client Sample ID: S1 3'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4620	F1	2520	7288		mg/Kg		106	90 - 110	3	20

Lab Sample ID: MB 880-40971/1-A

Matrix: Solid

Analysis Batch: 41088

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/07/22 17:20	1

Lab Sample ID: LCS 880-40971/2-A

Matrix: Solid

Analysis Batch: 41088

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	249.3		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-40971/3-A

Matrix: Solid

Analysis Batch: 41088

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	246.8		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-22119-40 MS

Matrix: Solid

Analysis Batch: 41088

Client Sample ID: S6 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3620	F1	1260	4983		mg/Kg		108	90 - 110		

Lab Sample ID: 880-22119-40 MSD

Matrix: Solid

Analysis Batch: 41088

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	3620	F1	1260	5125	F1	mg/Kg		120	90 - 110	3	20

Eurofins Midland

QC Association Summary

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

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

GC VOA

Prep Batch: 40771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Total/NA	Solid	5035	
880-22119-2	S3 10'	Total/NA	Solid	5035	
880-22119-3	S4 10'	Total/NA	Solid	5035	
880-22119-4	S9 10'	Total/NA	Solid	5035	
880-22119-5	S5 10'	Total/NA	Solid	5035	
MB 880-40771/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40771/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40771/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 40824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-6	S5 5'	Total/NA	Solid	5035	
880-22119-7	S5 3'	Total/NA	Solid	5035	
880-22119-8	S5 1'	Total/NA	Solid	5035	
880-22119-9	S8 5'	Total/NA	Solid	5035	
880-22119-10	S8 3'	Total/NA	Solid	5035	
880-22119-11	S8 1'	Total/NA	Solid	5035	
880-22119-12	S3 5'	Total/NA	Solid	5035	
880-22119-13	S3 3'	Total/NA	Solid	5035	
880-22119-14	S3 1'	Total/NA	Solid	5035	
880-22119-15	S4 5'	Total/NA	Solid	5035	
880-22119-18	S9 5'	Total/NA	Solid	5035	
880-22119-19	S9 3'	Total/NA	Solid	5035	
880-22119-20	S9 1'	Total/NA	Solid	5035	
880-22119-21	S2 10'	Total/NA	Solid	5035	
880-22119-22	S2 5'	Total/NA	Solid	5035	
880-22119-23	S2 3'	Total/NA	Solid	5035	
MB 880-40824/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40824/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40824/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22119-6 MS	S5 5'	Total/NA	Solid	5035	
880-22119-6 MSD	S5 5'	Total/NA	Solid	5035	

Prep Batch: 40826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-24	S2 1'	Total/NA	Solid	5035	
880-22119-25	S10 10'	Total/NA	Solid	5035	
880-22119-26	S10 5'	Total/NA	Solid	5035	
880-22119-27	S10 3'	Total/NA	Solid	5035	
880-22119-28	S10 1'	Total/NA	Solid	5035	
880-22119-29	S1 10'	Total/NA	Solid	5035	
880-22119-30	S1 5'	Total/NA	Solid	5035	
880-22119-31	S1 3'	Total/NA	Solid	5035	
880-22119-32	S1 1'	Total/NA	Solid	5035	
880-22119-33	S7 10'	Total/NA	Solid	5035	
880-22119-34	S7 5'	Total/NA	Solid	5035	
880-22119-35	S7 3'	Total/NA	Solid	5035	
880-22119-36	S7 1'	Total/NA	Solid	5035	
880-22119-37	S6 10'	Total/NA	Solid	5035	
880-22119-38	S6 5'	Total/NA	Solid	5035	
880-22119-39	S6 3'	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

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

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

GC VOA (Continued)

Prep Batch: 40826 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-40	S6 1'	Total/NA	Solid	5035	
MB 880-40826/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40826/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40826/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22119-24 MS	S2 1'	Total/NA	Solid	5035	
880-22119-24 MSD	S2 1'	Total/NA	Solid	5035	

Analysis Batch: 40980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Total/NA	Solid	8021B	40771
880-22119-2	S3 10'	Total/NA	Solid	8021B	40771
880-22119-3	S4 10'	Total/NA	Solid	8021B	40771
880-22119-4	S9 10'	Total/NA	Solid	8021B	40771
880-22119-5	S5 10'	Total/NA	Solid	8021B	40771
MB 880-40771/5-A	Method Blank	Total/NA	Solid	8021B	40771
LCS 880-40771/1-A	Lab Control Sample	Total/NA	Solid	8021B	40771
LCSD 880-40771/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40771

Analysis Batch: 41073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Total/NA	Solid	Total BTEX	
880-22119-2	S3 10'	Total/NA	Solid	Total BTEX	
880-22119-3	S4 10'	Total/NA	Solid	Total BTEX	
880-22119-4	S9 10'	Total/NA	Solid	Total BTEX	
880-22119-5	S5 10'	Total/NA	Solid	Total BTEX	
880-22119-6	S5 5'	Total/NA	Solid	Total BTEX	
880-22119-7	S5 3'	Total/NA	Solid	Total BTEX	
880-22119-8	S5 1'	Total/NA	Solid	Total BTEX	
880-22119-9	S8 5'	Total/NA	Solid	Total BTEX	
880-22119-10	S8 3'	Total/NA	Solid	Total BTEX	
880-22119-11	S8 1'	Total/NA	Solid	Total BTEX	
880-22119-12	S3 5'	Total/NA	Solid	Total BTEX	
880-22119-13	S3 3'	Total/NA	Solid	Total BTEX	
880-22119-14	S3 1'	Total/NA	Solid	Total BTEX	
880-22119-15	S4 5'	Total/NA	Solid	Total BTEX	
880-22119-18	S9 5'	Total/NA	Solid	Total BTEX	
880-22119-19	S9 3'	Total/NA	Solid	Total BTEX	
880-22119-20	S9 1'	Total/NA	Solid	Total BTEX	
880-22119-21	S2 10'	Total/NA	Solid	Total BTEX	
880-22119-22	S2 5'	Total/NA	Solid	Total BTEX	
880-22119-23	S2 3'	Total/NA	Solid	Total BTEX	
880-22119-24	S2 1'	Total/NA	Solid	Total BTEX	
880-22119-25	S10 10'	Total/NA	Solid	Total BTEX	
880-22119-26	S10 5'	Total/NA	Solid	Total BTEX	
880-22119-27	S10 3'	Total/NA	Solid	Total BTEX	
880-22119-28	S10 1'	Total/NA	Solid	Total BTEX	
880-22119-29	S1 10'	Total/NA	Solid	Total BTEX	
880-22119-30	S1 5'	Total/NA	Solid	Total BTEX	
880-22119-31	S1 3'	Total/NA	Solid	Total BTEX	
880-22119-32	S1 1'	Total/NA	Solid	Total BTEX	
880-22119-33	S7 10'	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

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

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

GC VOA (Continued)

Analysis Batch: 41073 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-34	S7 5'	Total/NA	Solid	Total BTEX	
880-22119-35	S7 3'	Total/NA	Solid	Total BTEX	
880-22119-36	S7 1'	Total/NA	Solid	Total BTEX	
880-22119-37	S6 10'	Total/NA	Solid	Total BTEX	
880-22119-38	S6 5'	Total/NA	Solid	Total BTEX	
880-22119-39	S6 3'	Total/NA	Solid	Total BTEX	
880-22119-40	S6 1'	Total/NA	Solid	Total BTEX	

Analysis Batch: 41419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-6	S5 5'	Total/NA	Solid	8021B	40824
880-22119-7	S5 3'	Total/NA	Solid	8021B	40824
880-22119-8	S5 1'	Total/NA	Solid	8021B	40824
880-22119-9	S8 5'	Total/NA	Solid	8021B	40824
880-22119-10	S8 3'	Total/NA	Solid	8021B	40824
880-22119-11	S8 1'	Total/NA	Solid	8021B	40824
880-22119-12	S3 5'	Total/NA	Solid	8021B	40824
880-22119-13	S3 3'	Total/NA	Solid	8021B	40824
880-22119-14	S3 1'	Total/NA	Solid	8021B	40824
880-22119-15	S4 5'	Total/NA	Solid	8021B	40824
880-22119-18	S9 5'	Total/NA	Solid	8021B	40824
880-22119-19	S9 3'	Total/NA	Solid	8021B	40824
880-22119-20	S9 1'	Total/NA	Solid	8021B	40824
880-22119-21	S2 10'	Total/NA	Solid	8021B	40824
880-22119-22	S2 5'	Total/NA	Solid	8021B	40824
880-22119-23	S2 3'	Total/NA	Solid	8021B	40824
MB 880-40824/5-A	Method Blank	Total/NA	Solid	8021B	40824
LCS 880-40824/1-A	Lab Control Sample	Total/NA	Solid	8021B	40824
LCSD 880-40824/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40824
880-22119-6 MS	S5 5'	Total/NA	Solid	8021B	40824
880-22119-6 MSD	S5 5'	Total/NA	Solid	8021B	40824

Analysis Batch: 41499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-24	S2 1'	Total/NA	Solid	8021B	40826
880-22119-25	S10 10'	Total/NA	Solid	8021B	40826
880-22119-26	S10 5'	Total/NA	Solid	8021B	40826
880-22119-27	S10 3'	Total/NA	Solid	8021B	40826
880-22119-28	S10 1'	Total/NA	Solid	8021B	40826
880-22119-29	S1 10'	Total/NA	Solid	8021B	40826
880-22119-30	S1 5'	Total/NA	Solid	8021B	40826
880-22119-31	S1 3'	Total/NA	Solid	8021B	40826
880-22119-32	S1 1'	Total/NA	Solid	8021B	40826
880-22119-33	S7 10'	Total/NA	Solid	8021B	40826
880-22119-34	S7 5'	Total/NA	Solid	8021B	40826
880-22119-35	S7 3'	Total/NA	Solid	8021B	40826
880-22119-36	S7 1'	Total/NA	Solid	8021B	40826
880-22119-37	S6 10'	Total/NA	Solid	8021B	40826
880-22119-38	S6 5'	Total/NA	Solid	8021B	40826
880-22119-39	S6 3'	Total/NA	Solid	8021B	40826
880-22119-40	S6 1'	Total/NA	Solid	8021B	40826

Eurofins Midland

QC Association Summary

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

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

GC VOA (Continued)

Analysis Batch: 41499 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40826/5-A	Method Blank	Total/NA	Solid	8021B	40826
LCS 880-40826/1-A	Lab Control Sample	Total/NA	Solid	8021B	40826
LCSD 880-40826/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40826
880-22119-24 MS	S2 1'	Total/NA	Solid	8021B	40826
880-22119-24 MSD	S2 1'	Total/NA	Solid	8021B	40826

GC Semi VOA

Prep Batch: 41159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-21	S2 10'	Total/NA	Solid	8015NM Prep	
880-22119-22	S2 5'	Total/NA	Solid	8015NM Prep	
880-22119-23	S2 3'	Total/NA	Solid	8015NM Prep	
880-22119-24	S2 1'	Total/NA	Solid	8015NM Prep	
880-22119-25	S10 10'	Total/NA	Solid	8015NM Prep	
880-22119-26	S10 5'	Total/NA	Solid	8015NM Prep	
880-22119-27	S10 3'	Total/NA	Solid	8015NM Prep	
880-22119-28	S10 1'	Total/NA	Solid	8015NM Prep	
880-22119-29	S1 10'	Total/NA	Solid	8015NM Prep	
880-22119-30	S1 5'	Total/NA	Solid	8015NM Prep	
880-22119-31	S1 3'	Total/NA	Solid	8015NM Prep	
880-22119-32	S1 1'	Total/NA	Solid	8015NM Prep	
880-22119-33	S7 10'	Total/NA	Solid	8015NM Prep	
880-22119-34	S7 5'	Total/NA	Solid	8015NM Prep	
880-22119-35	S7 3'	Total/NA	Solid	8015NM Prep	
880-22119-36	S7 1'	Total/NA	Solid	8015NM Prep	
880-22119-37	S6 10'	Total/NA	Solid	8015NM Prep	
880-22119-38	S6 5'	Total/NA	Solid	8015NM Prep	
880-22119-39	S6 3'	Total/NA	Solid	8015NM Prep	
880-22119-40	S6 1'	Total/NA	Solid	8015NM Prep	
MB 880-41159/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41159/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41159/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22119-21 MS	S2 10'	Total/NA	Solid	8015NM Prep	
880-22119-21 MSD	S2 10'	Total/NA	Solid	8015NM Prep	

Prep Batch: 41187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Total/NA	Solid	8015NM Prep	
880-22119-2	S3 10'	Total/NA	Solid	8015NM Prep	
880-22119-3	S4 10'	Total/NA	Solid	8015NM Prep	
880-22119-4	S9 10'	Total/NA	Solid	8015NM Prep	
880-22119-5	S5 10'	Total/NA	Solid	8015NM Prep	
880-22119-6	S5 5'	Total/NA	Solid	8015NM Prep	
880-22119-7	S5 3'	Total/NA	Solid	8015NM Prep	
880-22119-8	S5 1'	Total/NA	Solid	8015NM Prep	
880-22119-9	S8 5'	Total/NA	Solid	8015NM Prep	
880-22119-10	S8 3'	Total/NA	Solid	8015NM Prep	
880-22119-11	S8 1'	Total/NA	Solid	8015NM Prep	
880-22119-12	S3 5'	Total/NA	Solid	8015NM Prep	
880-22119-13	S3 3'	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

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

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

GC Semi VOA (Continued)

Prep Batch: 41187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-14	S3 1'	Total/NA	Solid	8015NM Prep	
880-22119-15	S4 5'	Total/NA	Solid	8015NM Prep	
880-22119-18	S9 5'	Total/NA	Solid	8015NM Prep	
880-22119-19	S9 3'	Total/NA	Solid	8015NM Prep	
880-22119-20	S9 1'	Total/NA	Solid	8015NM Prep	
MB 880-41187/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41187/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41187/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22119-1 MS	S8 10'	Total/NA	Solid	8015NM Prep	
880-22119-1 MSD	S8 10'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Total/NA	Solid	8015B NM	41187
880-22119-2	S3 10'	Total/NA	Solid	8015B NM	41187
880-22119-3	S4 10'	Total/NA	Solid	8015B NM	41187
880-22119-4	S9 10'	Total/NA	Solid	8015B NM	41187
880-22119-5	S5 10'	Total/NA	Solid	8015B NM	41187
880-22119-6	S5 5'	Total/NA	Solid	8015B NM	41187
880-22119-7	S5 3'	Total/NA	Solid	8015B NM	41187
880-22119-8	S5 1'	Total/NA	Solid	8015B NM	41187
880-22119-9	S8 5'	Total/NA	Solid	8015B NM	41187
880-22119-10	S8 3'	Total/NA	Solid	8015B NM	41187
880-22119-11	S8 1'	Total/NA	Solid	8015B NM	41187
880-22119-12	S3 5'	Total/NA	Solid	8015B NM	41187
880-22119-13	S3 3'	Total/NA	Solid	8015B NM	41187
880-22119-14	S3 1'	Total/NA	Solid	8015B NM	41187
880-22119-15	S4 5'	Total/NA	Solid	8015B NM	41187
880-22119-18	S9 5'	Total/NA	Solid	8015B NM	41187
880-22119-19	S9 3'	Total/NA	Solid	8015B NM	41187
880-22119-20	S9 1'	Total/NA	Solid	8015B NM	41187
880-22119-21	S2 10'	Total/NA	Solid	8015B NM	41159
880-22119-22	S2 5'	Total/NA	Solid	8015B NM	41159
880-22119-23	S2 3'	Total/NA	Solid	8015B NM	41159
880-22119-24	S2 1'	Total/NA	Solid	8015B NM	41159
880-22119-25	S10 10'	Total/NA	Solid	8015B NM	41159
880-22119-26	S10 5'	Total/NA	Solid	8015B NM	41159
880-22119-27	S10 3'	Total/NA	Solid	8015B NM	41159
880-22119-28	S10 1'	Total/NA	Solid	8015B NM	41159
880-22119-29	S1 10'	Total/NA	Solid	8015B NM	41159
880-22119-30	S1 5'	Total/NA	Solid	8015B NM	41159
880-22119-31	S1 3'	Total/NA	Solid	8015B NM	41159
880-22119-32	S1 1'	Total/NA	Solid	8015B NM	41159
880-22119-33	S7 10'	Total/NA	Solid	8015B NM	41159
880-22119-34	S7 5'	Total/NA	Solid	8015B NM	41159
880-22119-35	S7 3'	Total/NA	Solid	8015B NM	41159
880-22119-36	S7 1'	Total/NA	Solid	8015B NM	41159
880-22119-37	S6 10'	Total/NA	Solid	8015B NM	41159
880-22119-38	S6 5'	Total/NA	Solid	8015B NM	41159
880-22119-39	S6 3'	Total/NA	Solid	8015B NM	41159
880-22119-40	S6 1'	Total/NA	Solid	8015B NM	41159

Eurofins Midland

QC Association Summary

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

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

GC Semi VOA (Continued)

Analysis Batch: 41218 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-41159/1-A	Method Blank	Total/NA	Solid	8015B NM	41159
MB 880-41187/1-A	Method Blank	Total/NA	Solid	8015B NM	41187
LCS 880-41159/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41159
LCS 880-41187/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41187
LCSD 880-41159/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41159
LCSD 880-41187/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41187
880-22119-1 MS	S8 10'	Total/NA	Solid	8015B NM	41187
880-22119-1 MSD	S8 10'	Total/NA	Solid	8015B NM	41187
880-22119-21 MS	S2 10'	Total/NA	Solid	8015B NM	41159
880-22119-21 MSD	S2 10'	Total/NA	Solid	8015B NM	41159

Analysis Batch: 41364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Total/NA	Solid	8015 NM	
880-22119-2	S3 10'	Total/NA	Solid	8015 NM	
880-22119-3	S4 10'	Total/NA	Solid	8015 NM	
880-22119-4	S9 10'	Total/NA	Solid	8015 NM	
880-22119-5	S5 10'	Total/NA	Solid	8015 NM	
880-22119-6	S5 5'	Total/NA	Solid	8015 NM	
880-22119-7	S5 3'	Total/NA	Solid	8015 NM	
880-22119-8	S5 1'	Total/NA	Solid	8015 NM	
880-22119-9	S8 5'	Total/NA	Solid	8015 NM	
880-22119-10	S8 3'	Total/NA	Solid	8015 NM	
880-22119-11	S8 1'	Total/NA	Solid	8015 NM	
880-22119-12	S3 5'	Total/NA	Solid	8015 NM	
880-22119-13	S3 3'	Total/NA	Solid	8015 NM	
880-22119-14	S3 1'	Total/NA	Solid	8015 NM	
880-22119-15	S4 5'	Total/NA	Solid	8015 NM	
880-22119-18	S9 5'	Total/NA	Solid	8015 NM	
880-22119-19	S9 3'	Total/NA	Solid	8015 NM	
880-22119-20	S9 1'	Total/NA	Solid	8015 NM	
880-22119-21	S2 10'	Total/NA	Solid	8015 NM	
880-22119-22	S2 5'	Total/NA	Solid	8015 NM	
880-22119-23	S2 3'	Total/NA	Solid	8015 NM	
880-22119-24	S2 1'	Total/NA	Solid	8015 NM	
880-22119-25	S10 10'	Total/NA	Solid	8015 NM	
880-22119-26	S10 5'	Total/NA	Solid	8015 NM	
880-22119-27	S10 3'	Total/NA	Solid	8015 NM	
880-22119-28	S10 1'	Total/NA	Solid	8015 NM	
880-22119-29	S1 10'	Total/NA	Solid	8015 NM	
880-22119-30	S1 5'	Total/NA	Solid	8015 NM	
880-22119-31	S1 3'	Total/NA	Solid	8015 NM	
880-22119-32	S1 1'	Total/NA	Solid	8015 NM	
880-22119-33	S7 10'	Total/NA	Solid	8015 NM	
880-22119-34	S7 5'	Total/NA	Solid	8015 NM	
880-22119-35	S7 3'	Total/NA	Solid	8015 NM	
880-22119-36	S7 1'	Total/NA	Solid	8015 NM	
880-22119-37	S6 10'	Total/NA	Solid	8015 NM	
880-22119-38	S6 5'	Total/NA	Solid	8015 NM	
880-22119-39	S6 3'	Total/NA	Solid	8015 NM	
880-22119-40	S6 1'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

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

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

HPLC/IC

Leach Batch: 40834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-6	S5 5'	Soluble	Solid	DI Leach	
880-22119-7	S5 3'	Soluble	Solid	DI Leach	
880-22119-8	S5 1'	Soluble	Solid	DI Leach	
MB 880-40834/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40834/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40834/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 40952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-6	S5 5'	Soluble	Solid	300.0	40834
880-22119-7	S5 3'	Soluble	Solid	300.0	40834
880-22119-8	S5 1'	Soluble	Solid	300.0	40834
MB 880-40834/1-A	Method Blank	Soluble	Solid	300.0	40834
LCS 880-40834/2-A	Lab Control Sample	Soluble	Solid	300.0	40834
LCSD 880-40834/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40834

Leach Batch: 40967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-26	S10 5'	Soluble	Solid	DI Leach	
880-22119-27	S10 3'	Soluble	Solid	DI Leach	
880-22119-28	S10 1'	Soluble	Solid	DI Leach	
880-22119-29	S1 10'	Soluble	Solid	DI Leach	
880-22119-30	S1 5'	Soluble	Solid	DI Leach	
MB 880-40967/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40967/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40967/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22119-26 MS	S10 5'	Soluble	Solid	DI Leach	
880-22119-26 MSD	S10 5'	Soluble	Solid	DI Leach	

Leach Batch: 40969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Soluble	Solid	DI Leach	
880-22119-2	S3 10'	Soluble	Solid	DI Leach	
880-22119-3	S4 10'	Soluble	Solid	DI Leach	
880-22119-4	S9 10'	Soluble	Solid	DI Leach	
880-22119-5	S5 10'	Soluble	Solid	DI Leach	
880-22119-9	S8 5'	Soluble	Solid	DI Leach	
880-22119-10	S8 3'	Soluble	Solid	DI Leach	
880-22119-11	S8 1'	Soluble	Solid	DI Leach	
880-22119-12	S3 5'	Soluble	Solid	DI Leach	
880-22119-13	S3 3'	Soluble	Solid	DI Leach	
880-22119-14	S3 1'	Soluble	Solid	DI Leach	
880-22119-15	S4 5'	Soluble	Solid	DI Leach	
880-22119-18	S9 5'	Soluble	Solid	DI Leach	
880-22119-19	S9 3'	Soluble	Solid	DI Leach	
880-22119-20	S9 1'	Soluble	Solid	DI Leach	
880-22119-21	S2 10'	Soluble	Solid	DI Leach	
880-22119-22	S2 5'	Soluble	Solid	DI Leach	
880-22119-23	S2 3'	Soluble	Solid	DI Leach	
880-22119-24	S2 1'	Soluble	Solid	DI Leach	
880-22119-25	S10 10'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

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

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

HPLC/IC (Continued)

Leach Batch: 40969 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40969/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40969/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40969/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22119-1 MS	S8 10'	Soluble	Solid	DI Leach	
880-22119-1 MSD	S8 10'	Soluble	Solid	DI Leach	
880-22119-14 MS	S3 1'	Soluble	Solid	DI Leach	
880-22119-14 MSD	S3 1'	Soluble	Solid	DI Leach	

Leach Batch: 40970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-31	S1 3'	Soluble	Solid	DI Leach	
880-22119-32	S1 1'	Soluble	Solid	DI Leach	
880-22119-33	S7 10'	Soluble	Solid	DI Leach	
880-22119-34	S7 5'	Soluble	Solid	DI Leach	
880-22119-35	S7 3'	Soluble	Solid	DI Leach	
880-22119-36	S7 1'	Soluble	Solid	DI Leach	
880-22119-37	S6 10'	Soluble	Solid	DI Leach	
880-22119-38	S6 5'	Soluble	Solid	DI Leach	
880-22119-39	S6 3'	Soluble	Solid	DI Leach	
MB 880-40970/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40970/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40970/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22119-31 MS	S1 3'	Soluble	Solid	DI Leach	
880-22119-31 MSD	S1 3'	Soluble	Solid	DI Leach	

Leach Batch: 40971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-40	S6 1'	Soluble	Solid	DI Leach	
MB 880-40971/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40971/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40971/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22119-40 MS	S6 1'	Soluble	Solid	DI Leach	
880-22119-40 MSD	S6 1'	Soluble	Solid	DI Leach	

Analysis Batch: 41027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-1	S8 10'	Soluble	Solid	300.0	40969
880-22119-2	S3 10'	Soluble	Solid	300.0	40969
880-22119-3	S4 10'	Soluble	Solid	300.0	40969
880-22119-4	S9 10'	Soluble	Solid	300.0	40969
880-22119-5	S5 10'	Soluble	Solid	300.0	40969
880-22119-9	S8 5'	Soluble	Solid	300.0	40969
880-22119-10	S8 3'	Soluble	Solid	300.0	40969
880-22119-11	S8 1'	Soluble	Solid	300.0	40969
880-22119-12	S3 5'	Soluble	Solid	300.0	40969
880-22119-13	S3 3'	Soluble	Solid	300.0	40969
880-22119-14	S3 1'	Soluble	Solid	300.0	40969
880-22119-15	S4 5'	Soluble	Solid	300.0	40969
880-22119-18	S9 5'	Soluble	Solid	300.0	40969
880-22119-19	S9 3'	Soluble	Solid	300.0	40969
880-22119-20	S9 1'	Soluble	Solid	300.0	40969

Eurofins Midland

QC Association Summary

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

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

HPLC/IC (Continued)

Analysis Batch: 41027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-21	S2 10'	Soluble	Solid	300.0	40969
880-22119-22	S2 5'	Soluble	Solid	300.0	40969
880-22119-23	S2 3'	Soluble	Solid	300.0	40969
880-22119-24	S2 1'	Soluble	Solid	300.0	40969
880-22119-25	S10 10'	Soluble	Solid	300.0	40969
MB 880-40969/1-A	Method Blank	Soluble	Solid	300.0	40969
LCS 880-40969/2-A	Lab Control Sample	Soluble	Solid	300.0	40969
LCSD 880-40969/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40969
880-22119-1 MS	S8 10'	Soluble	Solid	300.0	40969
880-22119-1 MSD	S8 10'	Soluble	Solid	300.0	40969
880-22119-14 MS	S3 1'	Soluble	Solid	300.0	40969
880-22119-14 MSD	S3 1'	Soluble	Solid	300.0	40969

Analysis Batch: 41028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-26	S10 5'	Soluble	Solid	300.0	40967
880-22119-27	S10 3'	Soluble	Solid	300.0	40967
880-22119-28	S10 1'	Soluble	Solid	300.0	40967
880-22119-29	S1 10'	Soluble	Solid	300.0	40967
880-22119-30	S1 5'	Soluble	Solid	300.0	40967
MB 880-40967/1-A	Method Blank	Soluble	Solid	300.0	40967
LCS 880-40967/2-A	Lab Control Sample	Soluble	Solid	300.0	40967
LCSD 880-40967/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40967
880-22119-26 MS	S10 5'	Soluble	Solid	300.0	40967
880-22119-26 MSD	S10 5'	Soluble	Solid	300.0	40967

Analysis Batch: 41029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-31	S1 3'	Soluble	Solid	300.0	40970
880-22119-32	S1 1'	Soluble	Solid	300.0	40970
880-22119-33	S7 10'	Soluble	Solid	300.0	40970
880-22119-34	S7 5'	Soluble	Solid	300.0	40970
880-22119-35	S7 3'	Soluble	Solid	300.0	40970
880-22119-36	S7 1'	Soluble	Solid	300.0	40970
880-22119-37	S6 10'	Soluble	Solid	300.0	40970
880-22119-38	S6 5'	Soluble	Solid	300.0	40970
880-22119-39	S6 3'	Soluble	Solid	300.0	40970
MB 880-40970/1-A	Method Blank	Soluble	Solid	300.0	40970
LCS 880-40970/2-A	Lab Control Sample	Soluble	Solid	300.0	40970
LCSD 880-40970/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40970
880-22119-31 MS	S1 3'	Soluble	Solid	300.0	40970
880-22119-31 MSD	S1 3'	Soluble	Solid	300.0	40970

Analysis Batch: 41088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22119-40	S6 1'	Soluble	Solid	300.0	40971
MB 880-40971/1-A	Method Blank	Soluble	Solid	300.0	40971
LCS 880-40971/2-A	Lab Control Sample	Soluble	Solid	300.0	40971
LCSD 880-40971/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40971
880-22119-40 MS	S6 1'	Soluble	Solid	300.0	40971
880-22119-40 MSD	S6 1'	Soluble	Solid	300.0	40971

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: S8 10'
Date Collected: 11/28/22 14:13
Date Received: 12/01/22 08:13

Lab Sample ID: 880-22119-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40771	12/01/22 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40980	12/05/22 01:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/05/22 14:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 10:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 01:49	CH	EET MID

Client Sample ID: S3 10'
Date Collected: 11/28/22 14:32
Date Received: 12/01/22 08:13

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40771	12/01/22 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40980	12/05/22 01:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/05/22 14:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 12:04	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 02:14	CH	EET MID

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

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40771	12/01/22 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40980	12/05/22 01:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/05/22 14:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 12:26	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 02:22	CH	EET MID

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

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40771	12/01/22 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40980	12/05/22 02:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/05/22 14:46	SM	EET MID

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: S9 10'

Lab Sample ID: 880-22119-4

Date Collected: 11/28/22 08:52

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 12:49	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 02:30	CH	EET MID

Client Sample ID: S5 10'

Lab Sample ID: 880-22119-5

Date Collected: 11/29/22 09:20

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40771	12/01/22 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40980	12/05/22 02:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/05/22 14:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 13:11	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 02:38	CH	EET MID

Client Sample ID: S5 5'

Lab Sample ID: 880-22119-6

Date Collected: 11/29/22 09:19

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 13:33	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40834	12/01/22 17:32	SMC	EET MID
Soluble	Analysis	300.0		1			40952	12/04/22 12:40	CH	EET MID

Client Sample ID: S5 3'

Lab Sample ID: 880-22119-7

Date Collected: 11/29/22 09:18

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 13:55	SM	EET MID

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: S5 3'

Lab Sample ID: 880-22119-7

Date Collected: 11/29/22 09:18

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	40834	12/01/22 17:32	SMC	EET MID
Soluble	Analysis	300.0		1			40952	12/04/22 12:48	CH	EET MID

Client Sample ID: S5 1'

Lab Sample ID: 880-22119-8

Date Collected: 11/29/22 09:17

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 12:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 14:18	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40834	12/01/22 17:32	SMC	EET MID
Soluble	Analysis	300.0		5			40952	12/04/22 12:56	CH	EET MID

Client Sample ID: S8 5'

Lab Sample ID: 880-22119-9

Date Collected: 11/29/22 14:12

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 13:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 14:40	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 03:03	CH	EET MID

Client Sample ID: S8 3'

Lab Sample ID: 880-22119-10

Date Collected: 11/29/22 14:11

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 14:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 15:02	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 03:11	CH	EET MID

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: S8 1'

Lab Sample ID: 880-22119-11

Date Collected: 11/29/22 14:10

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 13:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 14:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 15:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 03:19	CH	EET MID

Client Sample ID: S3 5'

Lab Sample ID: 880-22119-12

Date Collected: 11/29/22 14:31

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 14:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 17:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 16:13	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 03:27	CH	EET MID

Client Sample ID: S3 3'

Lab Sample ID: 880-22119-13

Date Collected: 11/29/22 14:30

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 14:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 17:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 16:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 03:35	CH	EET MID

Client Sample ID: S3 1'

Lab Sample ID: 880-22119-14

Date Collected: 11/29/22 14:29

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 14:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 17:36	SM	EET MID

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: S3 1'

Lab Sample ID: 880-22119-14

Date Collected: 11/29/22 14:29

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 16:57	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 03:43	CH	EET MID

Client Sample ID: S4 5'

Lab Sample ID: 880-22119-15

Date Collected: 11/29/22 15:07

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 15:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 17:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 17:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 04:08	CH	EET MID

Client Sample ID: S9 5'

Lab Sample ID: 880-22119-18

Date Collected: 11/29/22 08:51

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 16:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/09/22 17:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 17:41	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 04:16	CH	EET MID

Client Sample ID: S9 3'

Lab Sample ID: 880-22119-19

Date Collected: 11/29/22 08:50

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 17:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 18:03	SM	EET MID

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: S9 3'

Lab Sample ID: 880-22119-19

Date Collected: 11/29/22 08:50

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 04:40	CH	EET MID

Client Sample ID: S9 1'

Lab Sample ID: 880-22119-20

Date Collected: 11/29/22 08:49

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41187	12/06/22 15:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 18:25	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		5			41027	12/07/22 04:48	CH	EET MID

Client Sample ID: S2 10'

Lab Sample ID: 880-22119-21

Date Collected: 11/29/22 10:00

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 21:00	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 04:56	CH	EET MID

Client Sample ID: S2 5'

Lab Sample ID: 880-22119-22

Date Collected: 11/29/22 09:59

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 22:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 05:05	CH	EET MID

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: S2 3'

Lab Sample ID: 880-22119-23

Date Collected: 11/29/22 09:58

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40824	12/01/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41419	12/09/22 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 22:28	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 05:13	CH	EET MID

Client Sample ID: S2 1'

Lab Sample ID: 880-22119-24

Date Collected: 11/29/22 09:57

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 21:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 22:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 05:21	CH	EET MID

Client Sample ID: S10 10'

Lab Sample ID: 880-22119-25

Date Collected: 11/29/22 09:30

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 21:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 23:13	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40969	12/03/22 16:23	SMC	EET MID
Soluble	Analysis	300.0		1			41027	12/07/22 05:29	CH	EET MID

Client Sample ID: S10 5'

Lab Sample ID: 880-22119-26

Date Collected: 11/29/22 09:29

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 21:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: S10 5'
Date Collected: 11/29/22 09:29
Date Received: 12/01/22 08:13

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 23:35	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40967	12/03/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1			41028	12/07/22 11:33	CH	EET MID

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

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 22:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/07/22 23:56	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40967	12/03/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1			41028	12/07/22 11:53	CH	EET MID

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

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 22:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 00:18	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	40967	12/03/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1			41028	12/07/22 11:59	CH	EET MID

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

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 22:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 00:39	SM	EET MID

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: S1 10'

Lab Sample ID: 880-22119-29

Date Collected: 11/29/22 10:30

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	40967	12/03/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		1			41028	12/07/22 12:06	CH	EET MID

Client Sample ID: S1 5'

Lab Sample ID: 880-22119-30

Date Collected: 11/29/22 10:29

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 23:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 01:01	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40967	12/03/22 16:10	SMC	EET MID
Soluble	Analysis	300.0		5			41028	12/07/22 12:13	CH	EET MID

Client Sample ID: S1 3'

Lab Sample ID: 880-22119-31

Date Collected: 11/29/22 10:28

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 23:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 01:44	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		10			41029	12/07/22 06:34	CH	EET MID

Client Sample ID: S1 1'

Lab Sample ID: 880-22119-32

Date Collected: 11/29/22 10:27

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/09/22 23:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 02:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 06:58	CH	EET MID

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: S7 10'

Lab Sample ID: 880-22119-33

Date Collected: 11/29/22 10:45

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 00:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 02:27	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 07:06	CH	EET MID

Client Sample ID: S7 5'

Lab Sample ID: 880-22119-34

Date Collected: 11/29/22 10:44

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 02:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 02:49	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 07:15	CH	EET MID

Client Sample ID: S7 3'

Lab Sample ID: 880-22119-35

Date Collected: 11/29/22 10:43

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 02:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 03:10	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 07:23	CH	EET MID

Client Sample ID: S7 1'

Lab Sample ID: 880-22119-36

Date Collected: 11/29/22 10:42

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 02:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: S7 1'

Lab Sample ID: 880-22119-36

Date Collected: 11/29/22 10:42

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 03:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 09:17	CH	EET MID

Client Sample ID: S6 10'

Lab Sample ID: 880-22119-37

Date Collected: 11/29/22 11:10

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 03:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 03:53	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 09:25	CH	EET MID

Client Sample ID: S6 5'

Lab Sample ID: 880-22119-38

Date Collected: 11/29/22 11:09

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 03:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 04:15	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 09:33	CH	EET MID

Client Sample ID: S6 3'

Lab Sample ID: 880-22119-39

Date Collected: 11/29/22 11:08

Matrix: Solid

Date Received: 12/01/22 08:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 03:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 04:36	SM	EET MID

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: S6 3'
Date Collected: 11/29/22 11:08
Date Received: 12/01/22 08:13

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	40970	12/03/22 16:29	SMC	EET MID
Soluble	Analysis	300.0		1			41029	12/07/22 09:41	CH	EET MID

Client Sample ID: S6 1'
Date Collected: 11/29/22 11:07
Date Received: 12/01/22 08:13

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40826	12/01/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41499	12/10/22 04:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41073	12/12/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			41364	12/08/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	41159	12/06/22 11:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41218	12/08/22 04:58	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	40971	12/03/22 16:32	SMC	EET MID
Soluble	Analysis	300.0		5			41088	12/07/22 17:45	CH	EET MID

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

Accreditation/Certification Summary

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

Job ID: 880-22119-1
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

Method Summary

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

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

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-22119-1	S8 10'	Solid	11/28/22 14:13	12/01/22 08:13
880-22119-2	S3 10'	Solid	11/28/22 14:32	12/01/22 08:13
880-22119-3	S4 10'	Solid	11/28/22 15:08	12/01/22 08:13
880-22119-4	S9 10'	Solid	11/28/22 08:52	12/01/22 08:13
880-22119-5	S5 10'	Solid	11/29/22 09:20	12/01/22 08:13
880-22119-6	S5 5'	Solid	11/29/22 09:19	12/01/22 08:13
880-22119-7	S5 3'	Solid	11/29/22 09:18	12/01/22 08:13
880-22119-8	S5 1'	Solid	11/29/22 09:17	12/01/22 08:13
880-22119-9	S8 5'	Solid	11/29/22 14:12	12/01/22 08:13
880-22119-10	S8 3'	Solid	11/29/22 14:11	12/01/22 08:13
880-22119-11	S8 1'	Solid	11/29/22 14:10	12/01/22 08:13
880-22119-12	S3 5'	Solid	11/29/22 14:31	12/01/22 08:13
880-22119-13	S3 3'	Solid	11/29/22 14:30	12/01/22 08:13
880-22119-14	S3 1'	Solid	11/29/22 14:29	12/01/22 08:13
880-22119-15	S4 5'	Solid	11/29/22 15:07	12/01/22 08:13
880-22119-18	S9 5'	Solid	11/29/22 08:51	12/01/22 08:13
880-22119-19	S9 3'	Solid	11/29/22 08:50	12/01/22 08:13
880-22119-20	S9 1'	Solid	11/29/22 08:49	12/01/22 08:13
880-22119-21	S2 10'	Solid	11/29/22 10:00	12/01/22 08:13
880-22119-22	S2 5'	Solid	11/29/22 09:59	12/01/22 08:13
880-22119-23	S2 3'	Solid	11/29/22 09:58	12/01/22 08:13
880-22119-24	S2 1'	Solid	11/29/22 09:57	12/01/22 08:13
880-22119-25	S10 10'	Solid	11/29/22 09:30	12/01/22 08:13
880-22119-26	S10 5'	Solid	11/29/22 09:29	12/01/22 08:13
880-22119-27	S10 3'	Solid	11/29/22 09:28	12/01/22 08:13
880-22119-28	S10 1'	Solid	11/29/22 09:27	12/01/22 08:13
880-22119-29	S1 10'	Solid	11/29/22 10:30	12/01/22 08:13
880-22119-30	S1 5'	Solid	11/29/22 10:29	12/01/22 08:13
880-22119-31	S1 3'	Solid	11/29/22 10:28	12/01/22 08:13
880-22119-32	S1 1'	Solid	11/29/22 10:27	12/01/22 08:13
880-22119-33	S7 10'	Solid	11/29/22 10:45	12/01/22 08:13
880-22119-34	S7 5'	Solid	11/29/22 10:44	12/01/22 08:13
880-22119-35	S7 3'	Solid	11/29/22 10:43	12/01/22 08:13
880-22119-36	S7 1'	Solid	11/29/22 10:42	12/01/22 08:13
880-22119-37	S6 10'	Solid	11/29/22 11:10	12/01/22 08:13
880-22119-38	S6 5'	Solid	11/29/22 11:09	12/01/22 08:13
880-22119-39	S6 3'	Solid	11/29/22 11:08	12/01/22 08:13
880-22119-40	S6 1'	Solid	11/29/22 11:07	12/01/22 08:13

~~12/19/2022~~

12/19/2022

~~12/19/2022~~

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-22119-1

SDG Number: 22-0105-14

Login Number: 22119

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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 12/19/2022 4:43:15 PM

JOB DESCRIPTION

Chevron-Sand Dunes Pad 34
SDG NUMBER 22-0105-14

JOB NUMBER

880-22535-1

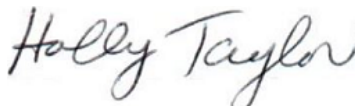
Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

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

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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.

1
2
3
4
5
6
7
8
9
10
11
12
13
14

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'
Date Collected: 12/07/22 14:50
Date Received: 12/09/22 08:55

Lab Sample ID: 880-22535-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/19/22 17:14	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0	mg/Kg			12/19/22 15:27	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/22 10:47	12/16/22 15:49	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/22 10:47	12/16/22 15:49	1	
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						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 41992						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						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 41992						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						Client Sample ID: Lab Control Sample		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 41992						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						Client Sample ID: Lab Control Sample Dup				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 41992						Prep Batch: 42044				
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	118		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41479/1-A
Matrix: Solid
Analysis Batch: 41945

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<5.00	U	5.00	mg/Kg			12/16/22 02:07	1

Lab Sample ID: LCS 880-41479/2-A
Matrix: Solid
Analysis Batch: 41945

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits	
		Result	Qualifier					
Chloride	250	253.5		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-41479/3-A
Matrix: Solid
Analysis Batch: 41945

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

CHAIN-OF-CUSTODY

22535 No. 2433

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	



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 1/23/2023 3:31:48 PM

JOB DESCRIPTION

Sand Dunes Pad 34 2nd Spill
SDG NUMBER 22-0105-14

JOB NUMBER

880-23941-1

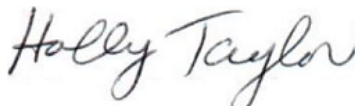
Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization



Generated
1/23/2023 3:31:48 PM

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

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Laboratory Job ID: 880-23941-1
SDG: 22-0105-14

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

Job ID: 880-23941-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-23941-1

Receipt

The samples were received on 1/20/2023 9:08 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-13, 0.5' (880-23941-1), S-4, 1' (880-23941-2) and S-4, 3' (880-23941-3).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-13, 0.5' (880-23941-1), S-4, 1' (880-23941-2) and S-4, 3' (880-23941-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

Client Sample ID: S-13, 0.5'

Lab Sample ID: 880-23941-1

Date Collected: 01/18/23 10:49

Matrix: Solid

Date Received: 01/20/23 09:08

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/20/23 13:28	01/21/23 20:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/20/23 13:28	01/21/23 20:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/20/23 13:28	01/21/23 20:46	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		01/20/23 13:28	01/21/23 20:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/20/23 13:28	01/21/23 20:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/20/23 13:28	01/21/23 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57	S1-	70 - 130	01/20/23 13:28	01/21/23 20:46	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/20/23 13:28	01/21/23 20:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/23/23 13:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/23/23 13:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/20/23 14:51	01/21/23 07:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/20/23 14:51	01/21/23 07:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/20/23 14:51	01/21/23 07:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	01/20/23 14:51	01/21/23 07:44	1
o-Terphenyl (Surr)	90		70 - 130	01/20/23 14:51	01/21/23 07:44	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		5.03	mg/Kg			01/21/23 05:08	1

Client Sample ID: S-4, 1'

Lab Sample ID: 880-23941-2

Date Collected: 01/18/23 10:50

Matrix: Solid

Date Received: 01/20/23 09:08

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/20/23 13:28	01/21/23 21:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/20/23 13:28	01/21/23 21:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/20/23 13:28	01/21/23 21:07	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		01/20/23 13:28	01/21/23 21:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/20/23 13:28	01/21/23 21:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/20/23 13:28	01/21/23 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	40	S1-	70 - 130	01/20/23 13:28	01/21/23 21:07	1
1,4-Difluorobenzene (Surr)	110		70 - 130	01/20/23 13:28	01/21/23 21:07	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

Client Sample ID: S-4, 1'

Date Collected: 01/18/23 10:50

Date Received: 01/20/23 09:08

Lab Sample ID: 880-23941-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/23/23 13:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/23/23 13:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/20/23 14:51	01/21/23 08:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/20/23 14:51	01/21/23 08:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/23 14:51	01/21/23 08:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			01/20/23 14:51	01/21/23 08:08	1
o-Terphenyl (Surr)	75		70 - 130			01/20/23 14:51	01/21/23 08:08	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	239		5.02	mg/Kg			01/21/23 05:14	1

Client Sample ID: S-4, 3'

Date Collected: 01/18/23 10:53

Date Received: 01/20/23 09:08

Lab Sample ID: 880-23941-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/20/23 13:28	01/21/23 21:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/20/23 13:28	01/21/23 21:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/20/23 13:28	01/21/23 21:28	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		01/20/23 13:28	01/21/23 21:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/20/23 13:28	01/21/23 21:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/20/23 13:28	01/21/23 21:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130			01/20/23 13:28	01/21/23 21:28	1
1,4-Difluorobenzene (Surr)	93		70 - 130			01/20/23 13:28	01/21/23 21:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/23/23 13:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/23/23 13:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/20/23 14:51	01/21/23 08:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/20/23 14:51	01/21/23 08:31	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

Client Sample ID: S-4, 3'

Date Collected: 01/18/23 10:53

Date Received: 01/20/23 09:08

Lab Sample ID: 880-23941-3

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	-	01/20/23 14:51	01/21/23 08:31	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	97		70 - 130			01/20/23 14:51	01/21/23 08:31	1	
o-Terphenyl (Surr)	87		70 - 130			01/20/23 14:51	01/21/23 08:31	1	

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	228		4.98	mg/Kg	-		01/21/23 05:20	1	

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-23941-1	S-13, 0.5'	57 S1-	100
880-23941-2	S-4, 1'	40 S1-	110
880-23941-3	S-4, 3'	59 S1-	93
LCS 880-44463/1-A	Lab Control Sample	98	101
LCSD 880-44463/2-A	Lab Control Sample Dup	101	105
MB 880-44462/5-A	Method Blank	78	91
MB 880-44463/5-A	Method Blank	72	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-23941-1	S-13, 0.5'	103	90
880-23941-2	S-4, 1'	80	75
880-23941-3	S-4, 3'	97	87

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44462/5-A

Matrix: Solid

Analysis Batch: 44464

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44462

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/20/23 13:24	01/21/23 03:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/20/23 13:24	01/21/23 03:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/20/23 13:24	01/21/23 03:47	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/20/23 13:24	01/21/23 03:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/20/23 13:24	01/21/23 03:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/20/23 13:24	01/21/23 03:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	01/20/23 13:24	01/21/23 03:47	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/20/23 13:24	01/21/23 03:47	1

Lab Sample ID: MB 880-44463/5-A

Matrix: Solid

Analysis Batch: 44464

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44463

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/20/23 13:28	01/21/23 14:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/20/23 13:28	01/21/23 14:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/20/23 13:28	01/21/23 14:28	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/20/23 13:28	01/21/23 14:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/20/23 13:28	01/21/23 14:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/20/23 13:28	01/21/23 14:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	01/20/23 13:28	01/21/23 14:28	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/20/23 13:28	01/21/23 14:28	1

Lab Sample ID: LCS 880-44463/1-A

Matrix: Solid

Analysis Batch: 44464

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08951		mg/Kg		90	70 - 130
Toluene	0.100	0.08534		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08156		mg/Kg		82	70 - 130
m,p-Xylenes	0.200	0.1685		mg/Kg		84	70 - 130
o-Xylene	0.100	0.08596		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-44463/2-A

Matrix: Solid

Analysis Batch: 44464

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1027		mg/Kg		103	70 - 130	14	35

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

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

Lab Sample ID: LCSD 880-44463/2-A
Matrix: Solid
Analysis Batch: 44464

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09723		mg/Kg		97	70 - 130	13	35
Ethylbenzene	0.100	0.09453		mg/Kg		95	70 - 130	15	35
m,p-Xylenes	0.200	0.1918		mg/Kg		96	70 - 130	13	35
o-Xylene	0.100	0.09710		mg/Kg		97	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44435/1-A
Matrix: Solid
Analysis Batch: 44501

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/21/23 03:46	1

Lab Sample ID: LCS 880-44435/2-A
Matrix: Solid
Analysis Batch: 44501

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	265.2		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-44435/3-A
Matrix: Solid
Analysis Batch: 44501

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	266.1		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

GC VOA

Prep Batch: 44462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44462/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 44463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Total/NA	Solid	5035	
880-23941-2	S-4, 1'	Total/NA	Solid	5035	
880-23941-3	S-4, 3'	Total/NA	Solid	5035	
MB 880-44463/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44463/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44463/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 44464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Total/NA	Solid	8021B	44463
880-23941-2	S-4, 1'	Total/NA	Solid	8021B	44463
880-23941-3	S-4, 3'	Total/NA	Solid	8021B	44463
MB 880-44462/5-A	Method Blank	Total/NA	Solid	8021B	44462
MB 880-44463/5-A	Method Blank	Total/NA	Solid	8021B	44463
LCS 880-44463/1-A	Lab Control Sample	Total/NA	Solid	8021B	44463
LCSD 880-44463/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44463

Analysis Batch: 44565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Total/NA	Solid	Total BTEX	
880-23941-2	S-4, 1'	Total/NA	Solid	Total BTEX	
880-23941-3	S-4, 3'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 44408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Total/NA	Solid	8015B NM	44494
880-23941-2	S-4, 1'	Total/NA	Solid	8015B NM	44494
880-23941-3	S-4, 3'	Total/NA	Solid	8015B NM	44494

Prep Batch: 44494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Total/NA	Solid	8015NM Prep	
880-23941-2	S-4, 1'	Total/NA	Solid	8015NM Prep	
880-23941-3	S-4, 3'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Total/NA	Solid	8015 NM	
880-23941-2	S-4, 1'	Total/NA	Solid	8015 NM	
880-23941-3	S-4, 3'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

HPLC/IC (Continued)

Leach Batch: 44435 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-2	S-4, 1'	Soluble	Solid	DI Leach	
880-23941-3	S-4, 3'	Soluble	Solid	DI Leach	
MB 880-44435/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44435/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44435/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 44501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23941-1	S-13, 0.5'	Soluble	Solid	300.0	44435
880-23941-2	S-4, 1'	Soluble	Solid	300.0	44435
880-23941-3	S-4, 3'	Soluble	Solid	300.0	44435
MB 880-44435/1-A	Method Blank	Soluble	Solid	300.0	44435
LCS 880-44435/2-A	Lab Control Sample	Soluble	Solid	300.0	44435
LCSD 880-44435/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44435

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

Client Sample ID: S-13, 0.5'**Lab Sample ID: 880-23941-1****Date Collected: 01/18/23 10:49****Matrix: Solid****Date Received: 01/20/23 09:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	44463	01/20/23 13:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/21/23 20:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44565	01/23/23 13:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			44567	01/23/23 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44494	01/20/23 14:51	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44408	01/21/23 07:44	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44435	01/20/23 11:45	KS	EET MID
Soluble	Analysis	300.0		1			44501	01/21/23 05:08	CH	EET MID

Client Sample ID: S-4, 1'**Lab Sample ID: 880-23941-2****Date Collected: 01/18/23 10:50****Matrix: Solid****Date Received: 01/20/23 09:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	44463	01/20/23 13:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/21/23 21:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44565	01/23/23 13:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			44567	01/23/23 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44494	01/20/23 14:51	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44408	01/21/23 08:08	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44435	01/20/23 11:45	KS	EET MID
Soluble	Analysis	300.0		1			44501	01/21/23 05:14	CH	EET MID

Client Sample ID: S-4, 3'**Lab Sample ID: 880-23941-3****Date Collected: 01/18/23 10:53****Matrix: Solid****Date Received: 01/20/23 09:08**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	44463	01/20/23 13:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44464	01/21/23 21:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44565	01/23/23 13:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			44567	01/23/23 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44494	01/20/23 14:51	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44408	01/21/23 08:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44435	01/20/23 11:45	KS	EET MID
Soluble	Analysis	300.0		1			44501	01/21/23 05:20	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
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	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

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

Protocol References:

- ASTM = ASTM International
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34 2nd Spill

Job ID: 880-23941-1
SDG: 22-0105-14

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23941-1	S-13, 0.5'	Solid	01/18/23 10:49	01/20/23 09:08
880-23941-2	S-4, 1'	Solid	01/18/23 10:50	01/20/23 09:08
880-23941-3	S-4, 3'	Solid	01/18/23 10:53	01/20/23 09:08

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

1/23/2023

CHAIN-OF-CUSTODY

23941 No. 2824

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-23941-1

SDG Number: 22-0105-14

Login Number: 23941

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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 10/6/2023 10:49:31 AM

JOB DESCRIPTION

Sand Dunes Pad 34
SDG NUMBER 22-0105-14

JOB NUMBER

880-33751-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

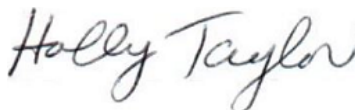
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
10/6/2023 10:49:31 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: 880-33751-1
SDG: 22-0105-14

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	29
QC Sample Results	31
QC Association Summary	39
Lab Chronicle	46
Certification Summary	55
Method Summary	56
Sample Summary	57
Chain of Custody	58
Receipt Checklists	60

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

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

Job ID: 880-33751-1
SDG: 22-0105-14

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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.

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

Case Narrative

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

Job ID: 880-33751-1
SDG: 22-0105-14

Job ID: 880-33751-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-33751-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/28/2023 9:14 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: C-1 2' (880-33751-1), C-2 2' (880-33751-2), C-3 4.1' (880-33751-3), C-4 4.1' (880-33751-4), C-5 4.1' (880-33751-5), C-6 4.1' (880-33751-6), C-7 3' (880-33751-7), C-8 2' (880-33751-8), C-9 3' (880-33751-9), C-10 3' (880-33751-10), C-11 3' (880-33751-11), C-12 3' (880-33751-12), C-13 1' (880-33751-13), C-14 1' (880-33751-14), C-15 1' (880-33751-15), C-16 3' (880-33751-16), C-17 3' (880-33751-17), C-18 3' (880-33751-18), C-19 3' (880-33751-19), C-20 3' (880-33751-20), C-21 3' (880-33751-21), C-22 3' (880-33751-22), C-23 3' (880-33751-23), C-24 3' (880-33751-24), C-25 3' (880-33751-25), C-26 0-3' (880-33751-26), C-27 0-1' (880-33751-27), C-28 0-3' (880-33751-28) and C-29 0-4.1' (880-33751-29).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-63921 recovered above the upper control limit for Ethylbenzene, m,p-Xylenes and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-3 4.1' (880-33751-3), C-6 4.1' (880-33751-6), C-7 3' (880-33751-7), C-8 2' (880-33751-8), C-11 3' (880-33751-11), C-12 3' (880-33751-12), C-13 1' (880-33751-13) and C-17 3' (880-33751-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-5 4.1' (880-33751-5), C-15 1' (880-33751-15), C-16 3' (880-33751-16) and (880-33751-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63677 and 880-63970 and analytical batch 880-63991 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-63573/20), (CCV 880-63573/47), (CCV 880-63573/5), (CCV 880-63573/58) and (LCS 880-63536/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-2 2' (880-33751-2), C-4 4.1' (880-33751-4), C-5 4.1' (880-33751-5), C-6 4.1' (880-33751-6), C-7 3' (880-33751-7), C-9 3' (880-33751-9), C-10 3' (880-33751-10), (880-33751-A-1-E MS) and (880-33751-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

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

Job ID: 880-33751-1
SDG: 22-0105-14

Job ID: 880-33751-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-11 3' (880-33751-11), C-12 3' (880-33751-12), C-13 1' (880-33751-13), C-14 1' (880-33751-14), C-15 1' (880-33751-15), C-16 3' (880-33751-16), C-18 3' (880-33751-18), C-19 3' (880-33751-19) and C-20 3' (880-33751-20). 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) recoveries for preparation batch 880-63536 and analytical batch 880-63573 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-33751-A-21-E MS) and (880-33751-A-21-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: C-28 0-3' (880-33751-28). 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) recoveries for preparation batch 880-63538 and analytical batch 880-63575 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-63527 and 880-63527 and analytical batch 880-63842 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 880-63526 and analytical batch 880-63843 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-1 2'
Date Collected: 09/27/23 09:00
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/04/23 23:14	1	
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/04/23 23:14	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/04/23 23:14	1	
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/29/23 17:09	10/04/23 23:14	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/04/23 23:14	1	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/29/23 17:09	10/04/23 23:14	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	87		70 - 130			09/29/23 17:09	10/04/23 23:14	1	
1,4-Difluorobenzene (Surr)	70		70 - 130			09/29/23 17:09	10/04/23 23:14	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/04/23 23:14	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	88.8		50.0	mg/Kg			09/29/23 10:35	1	

Method: 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 F1	50.0	mg/Kg		09/28/23 13:50	09/29/23 10:35	1	
Diesel Range Organics (Over C10-C28)	88.8	F1	50.0	mg/Kg		09/28/23 13:50	09/29/23 10:35	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/23 13:50	09/29/23 10:35	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	79		70 - 130			09/28/23 13:50	09/29/23 10:35	1	
o-Terphenyl (Surr)	71		70 - 130			09/28/23 13:50	09/29/23 10:35	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	804	F1	4.96	mg/Kg			10/03/23 02:05	1	

Client Sample ID: C-2 2'
Date Collected: 09/27/23 09:05
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/04/23 23:35	1	
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/04/23 23:35	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/04/23 23:35	1	
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/04/23 23:35	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/04/23 23:35	1	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/04/23 23:35	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	81		70 - 130			09/29/23 17:09	10/04/23 23:35	1	
1,4-Difluorobenzene (Surr)	81		70 - 130			09/29/23 17:09	10/04/23 23:35	1	

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-2 2'

Lab Sample ID: 880-33751-2

Date Collected: 09/27/23 09:05

Matrix: Solid

Date Received: 09/28/23 09:14

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/04/23 23:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			09/29/23 11:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		09/28/23 13:50	09/29/23 11:44	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		09/28/23 13:50	09/29/23 11:44	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		09/28/23 13:50	09/29/23 11:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			09/28/23 13:50	09/29/23 11:44	1
o-Terphenyl (Surr)	68	S1-	70 - 130			09/28/23 13:50	09/29/23 11:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	203		4.95	mg/Kg			10/03/23 02:23	1

Client Sample ID: C-3 4.1'

Lab Sample ID: 880-33751-3

Date Collected: 09/27/23 09:10

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/04/23 23:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/04/23 23:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/04/23 23:55	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/04/23 23:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/04/23 23:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/04/23 23:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			09/29/23 17:09	10/04/23 23:55	1
1,4-Difluorobenzene (Surr)	59	S1-	70 - 130			09/29/23 17:09	10/04/23 23:55	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			10/04/23 23:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			09/29/23 12:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		09/28/23 13:50	09/29/23 12:07	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		09/28/23 13:50	09/29/23 12:07	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-3 4.1'

Lab Sample ID: 880-33751-3

Date Collected: 09/27/23 09:10

Matrix: Solid

Date Received: 09/28/23 09:14

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)	<50.5	U	50.5	mg/Kg		09/28/23 13:50	09/29/23 12:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			09/28/23 13:50	09/29/23 12:07	1
o-Terphenyl (Surr)	71		70 - 130			09/28/23 13:50	09/29/23 12:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	547		4.99	mg/Kg			10/03/23 02:29	1

Client Sample ID: C-4 4.1'

Lab Sample ID: 880-33751-4

Date Collected: 09/27/23 09:15

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 00:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 00:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 00:16	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/29/23 17:09	10/05/23 00:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 00:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/29/23 17:09	10/05/23 00:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130			09/29/23 17:09	10/05/23 00:16	1
1,4-Difluorobenzene (Surr)	78		70 - 130			09/29/23 17:09	10/05/23 00:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/05/23 00:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			09/29/23 12:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		09/28/23 13:50	09/29/23 12:30	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		09/28/23 13:50	09/29/23 12:30	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		09/28/23 13:50	09/29/23 12:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			09/28/23 13:50	09/29/23 12:30	1
o-Terphenyl (Surr)	67	S1-	70 - 130			09/28/23 13:50	09/29/23 12:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	773		4.98	mg/Kg			10/03/23 02:34	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-5 4.1'

Lab Sample ID: 880-33751-5

Date Collected: 09/27/23 09:20

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 00:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 00:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 00:36	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 00:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 00:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	09/29/23 17:09	10/05/23 00:36	1
1,4-Difluorobenzene (Surr)	53	S1-	70 - 130	09/29/23 17:09	10/05/23 00:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/05/23 00:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	236		50.2	mg/Kg			09/29/23 12:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		09/28/23 13:50	09/29/23 12:53	1
Diesel Range Organics (Over C10-C28)	146		50.2	mg/Kg		09/28/23 13:50	09/29/23 12:53	1
Oil Range Organics (Over C28-C36)	89.9		50.2	mg/Kg		09/28/23 13:50	09/29/23 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130	09/28/23 13:50	09/29/23 12:53	1
o-Terphenyl (Surr)	67	S1-	70 - 130	09/28/23 13:50	09/29/23 12:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	554		5.02	mg/Kg			10/03/23 02:40	1

Client Sample ID: C-6 4.1'

Lab Sample ID: 880-33751-6

Date Collected: 09/27/23 09:25

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 00:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 00:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 00:56	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 00:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 00:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	09/29/23 17:09	10/05/23 00:56	1
1,4-Difluorobenzene (Surr)	51	S1-	70 - 130	09/29/23 17:09	10/05/23 00:56	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-6 4.1'

Lab Sample ID: 880-33751-6

Date Collected: 09/27/23 09:25

Matrix: Solid

Date Received: 09/28/23 09:14

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/05/23 00:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	357		49.7	mg/Kg			09/29/23 13:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		09/28/23 13:50	09/29/23 13:16	1
Diesel Range Organics (Over C10-C28)	241		49.7	mg/Kg		09/28/23 13:50	09/29/23 13:16	1
Oil Range Organics (Over C28-C36)	116		49.7	mg/Kg		09/28/23 13:50	09/29/23 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			09/28/23 13:50	09/29/23 13:16	1
o-Terphenyl (Surr)	65	S1-	70 - 130			09/28/23 13:50	09/29/23 13:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		25.2	mg/Kg			10/03/23 02:58	5

Client Sample ID: C-7 3'

Lab Sample ID: 880-33751-7

Date Collected: 09/27/23 09:30

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 01:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 01:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 01:17	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/29/23 17:09	10/05/23 01:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 01:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/29/23 17:09	10/05/23 01:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			09/29/23 17:09	10/05/23 01:17	1
1,4-Difluorobenzene (Surr)	49	S1-	70 - 130			09/29/23 17:09	10/05/23 01:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/05/23 01:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/29/23 13:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/23 13:50	09/29/23 13:39	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-7 3'

Lab Sample ID: 880-33751-7

Date Collected: 09/27/23 09:30

Matrix: Solid

Date Received: 09/28/23 09:14

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/23 13:50	09/29/23 13:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/23 13:50	09/29/23 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	72		70 - 130			09/28/23 13:50	09/29/23 13:39	1
o-Terphenyl (Surr)	64	S1-	70 - 130			09/28/23 13:50	09/29/23 13:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	278		5.03	mg/Kg			10/03/23 03:04	1

Client Sample ID: C-8 2'

Lab Sample ID: 880-33751-8

Date Collected: 09/27/23 09:35

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 01:37	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/29/23 17:09	10/05/23 01:37	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/29/23 17:09	10/05/23 01:37	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/29/23 17:09	10/05/23 01:37	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/29/23 17:09	10/05/23 01:37	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/29/23 17:09	10/05/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			09/29/23 17:09	10/05/23 01:37	1
1,4-Difluorobenzene (Surr)	53	S1-	70 - 130			09/29/23 17:09	10/05/23 01:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/05/23 01:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	289		49.6	mg/Kg			09/29/23 14:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		09/28/23 13:50	09/29/23 14:03	1
Diesel Range Organics (Over C10-C28)	186		49.6	mg/Kg		09/28/23 13:50	09/29/23 14:03	1
Oil Range Organics (Over C28-C36)	103		49.6	mg/Kg		09/28/23 13:50	09/29/23 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			09/28/23 13:50	09/29/23 14:03	1
o-Terphenyl (Surr)	70		70 - 130			09/28/23 13:50	09/29/23 14:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7370		49.9	mg/Kg			10/03/23 03:09	10

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-9 3'

Lab Sample ID: 880-33751-9

Date Collected: 09/27/23 09:40

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 01:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 01:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 01:58	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 01:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 01:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	09/29/23 17:09	10/05/23 01:58	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/29/23 17:09	10/05/23 01:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/05/23 01:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			09/29/23 14:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		09/28/23 13:50	09/29/23 14:26	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		09/28/23 13:50	09/29/23 14:26	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		09/28/23 13:50	09/29/23 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130	09/28/23 13:50	09/29/23 14:26	1
o-Terphenyl (Surr)	65	S1-	70 - 130	09/28/23 13:50	09/29/23 14:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		4.96	mg/Kg			10/03/23 03:15	1

Client Sample ID: C-10 3'

Lab Sample ID: 880-33751-10

Date Collected: 09/27/23 09:45

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 02:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 02:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 02:18	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 02:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 02:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/29/23 17:09	10/05/23 02:18	1
1,4-Difluorobenzene (Surr)	70		70 - 130	09/29/23 17:09	10/05/23 02:18	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-10 3'

Lab Sample ID: 880-33751-10

Date Collected: 09/27/23 09:45

Matrix: Solid

Date Received: 09/28/23 09:14

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/05/23 02:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			09/29/23 14:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		09/28/23 13:50	09/29/23 14:50	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		09/28/23 13:50	09/29/23 14:50	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		09/28/23 13:50	09/29/23 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130	09/28/23 13:50	09/29/23 14:50	1
o-Terphenyl (Surr)	66	S1-	70 - 130	09/28/23 13:50	09/29/23 14:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1190		4.97	mg/Kg			10/03/23 03:21	1

Client Sample ID: C-11 3'

Lab Sample ID: 880-33751-11

Date Collected: 09/27/23 09:50

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 03:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 03:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 03:40	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/29/23 17:09	10/05/23 03:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 03:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/29/23 17:09	10/05/23 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	09/29/23 17:09	10/05/23 03:40	1
1,4-Difluorobenzene (Surr)	53	S1-	70 - 130	09/29/23 17:09	10/05/23 03:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/05/23 03:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			09/29/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		09/28/23 13:50	09/29/23 15:38	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		09/28/23 13:50	09/29/23 15:38	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-11 3'
Date Collected: 09/27/23 09:50
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-11
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
OII Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		09/28/23 13:50	09/29/23 15:38	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	76		70 - 130			09/28/23 13:50	09/29/23 15:38	1	
o-Terphenyl (Surr)	67	S1-	70 - 130			09/28/23 13:50	09/29/23 15:38	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	944	F1	5.04	mg/Kg			10/02/23 22:41	1	

Client Sample ID: C-12 3'
Date Collected: 09/27/23 09:55
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg	-	09/29/23 17:09	10/05/23 04:00	1	
Toluene	<0.00200	U	0.00200	mg/Kg	-	09/29/23 17:09	10/05/23 04:00	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	-	09/29/23 17:09	10/05/23 04:00	1	
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg	-	09/29/23 17:09	10/05/23 04:00	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg	-	09/29/23 17:09	10/05/23 04:00	1	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg	-	09/29/23 17:09	10/05/23 04:00	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		70 - 130			09/29/23 17:09	10/05/23 04:00	1	
1,4-Difluorobenzene (Surr)	52	S1-	70 - 130			09/29/23 17:09	10/05/23 04:00	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401	mg/Kg	-		10/05/23 04:00	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.5	U	50.5	mg/Kg	-		09/29/23 16:01	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg	-	09/28/23 13:50	09/29/23 16:01	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg	-	09/28/23 13:50	09/29/23 16:01	1	
OII Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg	-	09/28/23 13:50	09/29/23 16:01	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	76		70 - 130			09/28/23 13:50	09/29/23 16:01	1	
o-Terphenyl (Surr)	69	S1-	70 - 130			09/28/23 13:50	09/29/23 16:01	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1090		4.98	mg/Kg	-		10/02/23 22:59	1	

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-13 1'

Lab Sample ID: 880-33751-13

Date Collected: 09/27/23 10:00

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 04:21	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/29/23 17:09	10/05/23 04:21	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/29/23 17:09	10/05/23 04:21	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/29/23 17:09	10/05/23 04:21	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/29/23 17:09	10/05/23 04:21	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/29/23 17:09	10/05/23 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	09/29/23 17:09	10/05/23 04:21	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130	09/29/23 17:09	10/05/23 04:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/05/23 04:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.6		50.0	mg/Kg			09/29/23 16:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/23 13:50	09/29/23 16:25	1
Diesel Range Organics (Over C10-C28)	54.6		50.0	mg/Kg		09/28/23 13:50	09/29/23 16:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/23 13:50	09/29/23 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	72		70 - 130	09/28/23 13:50	09/29/23 16:25	1
o-Terphenyl (Surr)	65	S1-	70 - 130	09/28/23 13:50	09/29/23 16:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2150		25.0	mg/Kg			10/02/23 23:05	5

Client Sample ID: C-14 1'

Lab Sample ID: 880-33751-14

Date Collected: 09/27/23 10:05

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 04:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 04:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 04:41	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 04:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 04:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	09/29/23 17:09	10/05/23 04:41	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/29/23 17:09	10/05/23 04:41	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-14 1'

Lab Sample ID: 880-33751-14

Date Collected: 09/27/23 10:05

Matrix: Solid

Date Received: 09/28/23 09:14

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/05/23 04:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	82.9		50.0	mg/Kg			09/29/23 16:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/23 13:50	09/29/23 16:50	1
Diesel Range Organics (Over C10-C28)	82.9		50.0	mg/Kg		09/28/23 13:50	09/29/23 16:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/23 13:50	09/29/23 16:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			09/28/23 13:50	09/29/23 16:50	1
o-Terphenyl (Surr)	69	S1-	70 - 130			09/28/23 13:50	09/29/23 16:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2680		24.9	mg/Kg			10/02/23 23:10	5

Client Sample ID: C-15 1'

Lab Sample ID: 880-33751-15

Date Collected: 09/27/23 10:10

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 05:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/29/23 17:09	10/05/23 05:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/29/23 17:09	10/05/23 05:02	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		09/29/23 17:09	10/05/23 05:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/29/23 17:09	10/05/23 05:02	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/29/23 17:09	10/05/23 05:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			09/29/23 17:09	10/05/23 05:02	1
1,4-Difluorobenzene (Surr)	54	S1-	70 - 130			09/29/23 17:09	10/05/23 05:02	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			10/05/23 05:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	125		49.9	mg/Kg			09/29/23 17:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/23 13:50	09/29/23 17:12	1
Diesel Range Organics (Over C10-C28)	125		49.9	mg/Kg		09/28/23 13:50	09/29/23 17:12	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-15 1'

Lab Sample ID: 880-33751-15

Date Collected: 09/27/23 10:10

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/28/23 13:50	09/29/23 17:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			09/28/23 13:50	09/29/23 17:12	1
o-Terphenyl (Surr)	68	S1-	70 - 130			09/28/23 13:50	09/29/23 17:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2700		24.8	mg/Kg			10/02/23 23:16	5

Client Sample ID: C-16 3'

Lab Sample ID: 880-33751-16

Date Collected: 09/27/23 10:15

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 05:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 05:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 05:22	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 05:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 05:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 05:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130			09/29/23 17:09	10/05/23 05:22	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130			09/29/23 17:09	10/05/23 05:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/05/23 05:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			09/29/23 17:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		09/28/23 13:50	09/29/23 17:36	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		09/28/23 13:50	09/29/23 17:36	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		09/28/23 13:50	09/29/23 17:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	72		70 - 130			09/28/23 13:50	09/29/23 17:36	1
o-Terphenyl (Surr)	67	S1-	70 - 130			09/28/23 13:50	09/29/23 17:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		4.96	mg/Kg			10/02/23 23:34	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-17 3'

Lab Sample ID: 880-33751-17

Date Collected: 09/27/23 10:20

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 05:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 05:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 05:42	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		09/29/23 17:09	10/05/23 05:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 05:42	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/29/23 17:09	10/05/23 05:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	09/29/23 17:09	10/05/23 05:42	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/29/23 17:09	10/05/23 05:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/05/23 05:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			09/29/23 17:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		09/28/23 13:50	09/29/23 17:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		09/28/23 13:50	09/29/23 17:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		09/28/23 13:50	09/29/23 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130	09/28/23 13:50	09/29/23 17:59	1
o-Terphenyl (Surr)	71		70 - 130	09/28/23 13:50	09/29/23 17:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1230		5.02	mg/Kg			10/02/23 23:40	1

Client Sample ID: C-18 3'

Lab Sample ID: 880-33751-18

Date Collected: 09/27/23 10:25

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 06:03	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/29/23 17:09	10/05/23 06:03	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/29/23 17:09	10/05/23 06:03	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		09/29/23 17:09	10/05/23 06:03	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/29/23 17:09	10/05/23 06:03	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/29/23 17:09	10/05/23 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	09/29/23 17:09	10/05/23 06:03	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/29/23 17:09	10/05/23 06:03	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-18 3'

Lab Sample ID: 880-33751-18

Date Collected: 09/27/23 10:25

Matrix: Solid

Date Received: 09/28/23 09:14

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/05/23 06:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			09/29/23 18:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		09/28/23 13:50	09/29/23 18:22	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		09/28/23 13:50	09/29/23 18:22	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		09/28/23 13:50	09/29/23 18:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130			09/28/23 13:50	09/29/23 18:22	1
o-Terphenyl (Surr)	66	S1-	70 - 130			09/28/23 13:50	09/29/23 18:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	774		5.01	mg/Kg			10/02/23 23:45	1

Client Sample ID: C-19 3'

Lab Sample ID: 880-33751-19

Date Collected: 09/27/23 10:30

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 06:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 06:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 06:23	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		09/29/23 17:09	10/05/23 06:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/05/23 06:23	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/29/23 17:09	10/05/23 06:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			09/29/23 17:09	10/05/23 06:23	1
1,4-Difluorobenzene (Surr)	85		70 - 130			09/29/23 17:09	10/05/23 06:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/05/23 06:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			09/29/23 18:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		09/28/23 13:50	09/29/23 18:45	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		09/28/23 13:50	09/29/23 18:45	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-19 3'

Lab Sample ID: 880-33751-19

Date Collected: 09/27/23 10:30

Matrix: Solid

Date Received: 09/28/23 09:14

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)	<50.1	U	50.1	mg/Kg		09/28/23 13:50	09/29/23 18:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130			09/28/23 13:50	09/29/23 18:45	1
o-Terphenyl (Surr)	67	S1-	70 - 130			09/28/23 13:50	09/29/23 18:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	898		5.04	mg/Kg			10/02/23 23:51	1

Client Sample ID: C-20 3'

Lab Sample ID: 880-33751-20

Date Collected: 09/27/23 10:35

Matrix: Solid

Date Received: 09/28/23 09:14

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		09/29/23 17:09	10/05/23 06:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 06:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 06:44	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 06:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/29/23 17:09	10/05/23 06:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/29/23 17:09	10/05/23 06:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			09/29/23 17:09	10/05/23 06:44	1
1,4-Difluorobenzene (Surr)	87		70 - 130			09/29/23 17:09	10/05/23 06:44	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			10/05/23 06:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			09/29/23 19:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		09/28/23 13:50	09/29/23 19:09	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		09/28/23 13:50	09/29/23 19:09	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		09/28/23 13:50	09/29/23 19:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	74		70 - 130			09/28/23 13:50	09/29/23 19:09	1
o-Terphenyl (Surr)	69	S1-	70 - 130			09/28/23 13:50	09/29/23 19:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	944		4.99	mg/Kg			10/02/23 23:57	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-21 3'

Lab Sample ID: 880-33751-21

Date Collected: 09/27/23 10:40

Matrix: Solid

Date Received: 09/28/23 09:14

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/23 16:40	10/06/23 05:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/23 16:40	10/06/23 05:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/23 16:40	10/06/23 05:47	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/04/23 16:40	10/06/23 05:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/23 16:40	10/06/23 05:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/23 16:40	10/06/23 05:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/04/23 16:40	10/06/23 05:47	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/04/23 16:40	10/06/23 05:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/23 05:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			09/29/23 10:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1	49.6	mg/Kg		09/28/23 14:02	09/29/23 10:35	1
Diesel Range Organics (Over C10-C28)	<49.6	U F1	49.6	mg/Kg		09/28/23 14:02	09/29/23 10:35	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		09/28/23 14:02	09/29/23 10:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	74		70 - 130	09/28/23 14:02	09/29/23 10:35	1
o-Terphenyl (Surr)	83		70 - 130	09/28/23 14:02	09/29/23 10:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	735	F1	5.05	mg/Kg			10/03/23 00:03	1

Client Sample ID: C-22 3'

Lab Sample ID: 880-33751-22

Date Collected: 09/27/23 10:45

Matrix: Solid

Date Received: 09/28/23 09:14

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 06:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 06:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 06:07	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		10/04/23 16:40	10/06/23 06:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 06:07	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/04/23 16:40	10/06/23 06:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/04/23 16:40	10/06/23 06:07	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/04/23 16:40	10/06/23 06:07	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-22 3'

Lab Sample ID: 880-33751-22

Date Collected: 09/27/23 10:45

Matrix: Solid

Date Received: 09/28/23 09:14

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/06/23 06:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			09/29/23 11:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		09/28/23 14:02	09/29/23 11:44	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		09/28/23 14:02	09/29/23 11:44	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		09/28/23 14:02	09/29/23 11:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130			09/28/23 14:02	09/29/23 11:44	1
o-Terphenyl (Surr)	82		70 - 130			09/28/23 14:02	09/29/23 11:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1840		25.1	mg/Kg			10/03/23 00:20	5

Client Sample ID: C-23 3'

Lab Sample ID: 880-33751-23

Date Collected: 09/27/23 10:50

Matrix: Solid

Date Received: 09/28/23 09:14

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 06:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 06:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 06:28	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		10/04/23 16:40	10/06/23 06:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 06:28	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/23 16:40	10/06/23 06:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/04/23 16:40	10/06/23 06:28	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/04/23 16:40	10/06/23 06:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/06/23 06:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/29/23 12:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/28/23 14:02	09/29/23 12:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/28/23 14:02	09/29/23 12:07	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-23 3'
Date Collected: 09/27/23 10:50
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-23
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/23 14:02	09/29/23 12:07	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	73		70 - 130			09/28/23 14:02	09/29/23 12:07	1	
o-Terphenyl (Surr)	80		70 - 130			09/28/23 14:02	09/29/23 12:07	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1180		4.98	mg/Kg			10/03/23 00:26	1	

Client Sample ID: C-24 3'
Date Collected: 09/27/23 10:55
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-24
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/23 16:40	10/06/23 06:48	1	
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/23 16:40	10/06/23 06:48	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/23 16:40	10/06/23 06:48	1	
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/04/23 16:40	10/06/23 06:48	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/23 16:40	10/06/23 06:48	1	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/23 16:40	10/06/23 06:48	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	106		70 - 130			10/04/23 16:40	10/06/23 06:48	1	
1,4-Difluorobenzene (Surr)	106		70 - 130			10/04/23 16:40	10/06/23 06:48	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/23 06:48	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.6	U	49.6	mg/Kg			09/29/23 12:30	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		09/28/23 14:02	09/29/23 12:30	1	
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		09/28/23 14:02	09/29/23 12:30	1	
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		09/28/23 14:02	09/29/23 12:30	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	78		70 - 130			09/28/23 14:02	09/29/23 12:30	1	
o-Terphenyl (Surr)	86		70 - 130			09/28/23 14:02	09/29/23 12:30	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1590		24.8	mg/Kg			10/03/23 00:44	5	

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-25 3'
Date Collected: 09/27/23 11:00
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-25
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 07:09	1	
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 07:09	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 07:09	1	
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		10/04/23 16:40	10/06/23 07:09	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 07:09	1	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/04/23 16:40	10/06/23 07:09	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	108		70 - 130			10/04/23 16:40	10/06/23 07:09	1	
1,4-Difluorobenzene (Surr)	99		70 - 130			10/04/23 16:40	10/06/23 07:09	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/06/23 07:09	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.6	U	49.6	mg/Kg			09/29/23 12:53	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		09/28/23 14:02	09/29/23 12:53	1	
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		09/28/23 14:02	09/29/23 12:53	1	
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		09/28/23 14:02	09/29/23 12:53	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	71		70 - 130			09/28/23 14:02	09/29/23 12:53	1	
o-Terphenyl (Surr)	78		70 - 130			09/28/23 14:02	09/29/23 12:53	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1100		5.03	mg/Kg			10/03/23 00:50	1	

Client Sample ID: C-26 0-3'
Date Collected: 09/27/23 11:05
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-26
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 07:29	1	
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 07:29	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 07:29	1	
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		10/04/23 16:40	10/06/23 07:29	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 07:29	1	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/23 16:40	10/06/23 07:29	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	105		70 - 130			10/04/23 16:40	10/06/23 07:29	1	
1,4-Difluorobenzene (Surr)	113		70 - 130			10/04/23 16:40	10/06/23 07:29	1	

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-26 0-3'

Lab Sample ID: 880-33751-26

Date Collected: 09/27/23 11:05

Matrix: Solid

Date Received: 09/28/23 09:14

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/06/23 07:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			09/29/23 13:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		09/28/23 14:02	09/29/23 13:16	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		09/28/23 14:02	09/29/23 13:16	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		09/28/23 14:02	09/29/23 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130			09/28/23 14:02	09/29/23 13:16	1
o-Terphenyl (Surr)	78		70 - 130			09/28/23 14:02	09/29/23 13:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	247		5.01	mg/Kg			10/03/23 00:55	1

Client Sample ID: C-27 0-1'

Lab Sample ID: 880-33751-27

Date Collected: 09/27/23 11:10

Matrix: Solid

Date Received: 09/28/23 09:14

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 07:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 07:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 07:49	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		10/04/23 16:40	10/06/23 07:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 07:49	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/04/23 16:40	10/06/23 07:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			10/04/23 16:40	10/06/23 07:49	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/04/23 16:40	10/06/23 07:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/06/23 07:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			09/29/23 13:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		09/28/23 14:02	09/29/23 13:39	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		09/28/23 14:02	09/29/23 13:39	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-27 0-1'

Lab Sample ID: 880-33751-27

Date Collected: 09/27/23 11:10

Matrix: Solid

Date Received: 09/28/23 09:14

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)	<50.2	U	50.2	mg/Kg		09/28/23 14:02	09/29/23 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			09/28/23 14:02	09/29/23 13:39	1
o-Terphenyl (Surr)	83		70 - 130			09/28/23 14:02	09/29/23 13:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	264		5.00	mg/Kg			10/03/23 01:01	1

Client Sample ID: C-28 0-3'

Lab Sample ID: 880-33751-28

Date Collected: 09/27/23 11:15

Matrix: Solid

Date Received: 09/28/23 09:14

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/04/23 16:40	10/06/23 08:10	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/04/23 16:40	10/06/23 08:10	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/04/23 16:40	10/06/23 08:10	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		10/04/23 16:40	10/06/23 08:10	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/04/23 16:40	10/06/23 08:10	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/04/23 16:40	10/06/23 08:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			10/04/23 16:40	10/06/23 08:10	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/04/23 16:40	10/06/23 08:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/06/23 08:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			09/29/23 14:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		09/28/23 14:02	09/29/23 14:03	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		09/28/23 14:02	09/29/23 14:03	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		09/28/23 14:02	09/29/23 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	68	S1-	70 - 130			09/28/23 14:02	09/29/23 14:03	1
o-Terphenyl (Surr)	74		70 - 130			09/28/23 14:02	09/29/23 14:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		5.04	mg/Kg			10/03/23 01:07	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-29 0-4.1'
Date Collected: 09/27/23 11:20
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-29
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/23 16:40	10/06/23 08:30	1	
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/23 16:40	10/06/23 08:30	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/23 16:40	10/06/23 08:30	1	
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/04/23 16:40	10/06/23 08:30	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/23 16:40	10/06/23 08:30	1	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/23 16:40	10/06/23 08:30	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	119		70 - 130			10/04/23 16:40	10/06/23 08:30	1	
1,4-Difluorobenzene (Surr)	110		70 - 130			10/04/23 16:40	10/06/23 08:30	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/23 08:30	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	62.1		49.7	mg/Kg			09/29/23 14:26	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		09/28/23 14:02	09/29/23 14:26	1	
Diesel Range Organics (Over C10-C28)	62.1		49.7	mg/Kg		09/28/23 14:02	09/29/23 14:26	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		09/28/23 14:02	09/29/23 14:26	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	74		70 - 130			09/28/23 14:02	09/29/23 14:26	1	
o-Terphenyl (Surr)	81		70 - 130			09/28/23 14:02	09/29/23 14:26	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2510		25.1	mg/Kg			10/03/23 01:13	5	

Surrogate Summary

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

Job ID: 880-33751-1
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)
880-33751-1	C-1 2'	87	70
880-33751-1 MS	C-1 2'	121	98
880-33751-1 MSD	C-1 2'	136 S1+	107
880-33751-2	C-2 2'	81	81
880-33751-3	C-3 4.1'	92	59 S1-
880-33751-4	C-4 4.1'	80	78
880-33751-5	C-5 4.1'	87	53 S1-
880-33751-6	C-6 4.1'	91	51 S1-
880-33751-7	C-7 3'	90	49 S1-
880-33751-8	C-8 2'	87	53 S1-
880-33751-9	C-9 3'	80	85
880-33751-10	C-10 3'	124	70
880-33751-11	C-11 3'	85	53 S1-
880-33751-12	C-12 3'	89	52 S1-
880-33751-13	C-13 1'	87	63 S1-
880-33751-14	C-14 1'	86	76
880-33751-15	C-15 1'	91	54 S1-
880-33751-16	C-16 3'	78	69 S1-
880-33751-17	C-17 3'	77	82
880-33751-18	C-18 3'	79	85
880-33751-19	C-19 3'	81	85
880-33751-20	C-20 3'	81	87
880-33751-21	C-21 3'	97	105
880-33751-22	C-22 3'	98	105
880-33751-23	C-23 3'	99	102
880-33751-24	C-24 3'	106	106
880-33751-25	C-25 3'	108	99
880-33751-26	C-26 0-3'	105	113
880-33751-27	C-27 0-1'	103	107
880-33751-28	C-28 0-3'	109	107
880-33751-29	C-29 0-4.1'	119	110
LCS 880-63676/1-A	Lab Control Sample	104	103
LCS 880-63970/1-A	Lab Control Sample	104	113
LCSD 880-63676/2-A	Lab Control Sample Dup	119	105
LCSD 880-63970/2-A	Lab Control Sample Dup	93	116
MB 880-63673/5-A	Method Blank	71	96
MB 880-63676/5-A	Method Blank	77	86
MB 880-63677/5-A	Method Blank	114	133 S1+
MB 880-63970/5-A	Method Blank	133 S1+	126

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

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

Job ID: 880-33751-1
SDG: 22-0105-14

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)
880-33751-1	C-1 2'	79	71
880-33751-1 MS	C-1 2'	76	63 S1-
880-33751-1 MSD	C-1 2'	72	59 S1-
880-33751-2	C-2 2'	75	68 S1-
880-33751-3	C-3 4.1'	77	71
880-33751-4	C-4 4.1'	77	67 S1-
880-33751-5	C-5 4.1'	75	67 S1-
880-33751-6	C-6 4.1'	76	65 S1-
880-33751-7	C-7 3'	72	64 S1-
880-33751-8	C-8 2'	80	70
880-33751-9	C-9 3'	76	65 S1-
880-33751-10	C-10 3'	75	66 S1-
880-33751-11	C-11 3'	76	67 S1-
880-33751-12	C-12 3'	76	69 S1-
880-33751-13	C-13 1'	72	65 S1-
880-33751-14	C-14 1'	75	69 S1-
880-33751-15	C-15 1'	75	68 S1-
880-33751-16	C-16 3'	72	67 S1-
880-33751-17	C-17 3'	77	71
880-33751-18	C-18 3'	71	66 S1-
880-33751-19	C-19 3'	73	67 S1-
880-33751-20	C-20 3'	74	69 S1-
880-33751-21	C-21 3'	74	83
880-33751-21 MS	C-21 3'	64 S1-	60 S1-
880-33751-21 MSD	C-21 3'	64 S1-	60 S1-
880-33751-22	C-22 3'	73	82
880-33751-23	C-23 3'	73	80
880-33751-24	C-24 3'	78	86
880-33751-25	C-25 3'	71	78
880-33751-26	C-26 0-3'	71	78
880-33751-27	C-27 0-1'	76	83
880-33751-28	C-28 0-3'	68 S1-	74
880-33751-29	C-29 0-4.1'	74	81
LCS 880-63536/2-A	Lab Control Sample	148 S1+	143 S1+
LCS 880-63538/2-A	Lab Control Sample	104	112
LCSD 880-63536/3-A	Lab Control Sample Dup	104	98
LCSD 880-63538/3-A	Lab Control Sample Dup	96	102
MB 880-63536/1-A - IN3	Method Blank	97	100
MB 880-63538/1-A	Method Blank	97	118

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: 880-33751-1
SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63673/5-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 63921						Prep Batch: 63673		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:05	10/04/23 12:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:05	10/04/23 12:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:05	10/04/23 12:16	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/29/23 17:05	10/04/23 12:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:05	10/04/23 12:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/29/23 17:05	10/04/23 12:16	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130			09/29/23 17:05	10/04/23 12:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130			09/29/23 17:05	10/04/23 12:16	1

Lab Sample ID: MB 880-63676/5-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 63921						Prep Batch: 63676		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/04/23 22:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/04/23 22:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/04/23 22:53	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/29/23 17:09	10/04/23 22:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:09	10/04/23 22:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/29/23 17:09	10/04/23 22:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			09/29/23 17:09	10/04/23 22:53	1
1,4-Difluorobenzene (Surr)	86		70 - 130			09/29/23 17:09	10/04/23 22:53	1

Lab Sample ID: LCS 880-63676/1-A						Client Sample ID: Lab Control Sample		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 63921						Prep Batch: 63676		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	0.100	0.1140		mg/Kg		114	70 - 130	
Toluene	0.100	0.1084		mg/Kg		108	70 - 130	
Ethylbenzene	0.100	0.1032		mg/Kg		103	70 - 130	
m,p-Xylenes	0.200	0.2137		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1117		mg/Kg		112	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	104		70 - 130					
1,4-Difluorobenzene (Surr)	103		70 - 130					

Lab Sample ID: LCSD 880-63676/2-A						Client Sample ID: Lab Control Sample Dup		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 63921						Prep Batch: 63676		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Benzene	0.100	0.1114		mg/Kg		111	70 - 130	2 35

Eurofins Midland

QC Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

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

Lab Sample ID: LCSD 880-63676/2-A

Matrix: Solid

Analysis Batch: 63921

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63676

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		
Toluene	0.100	0.1061		mg/Kg		106	70 - 130	2	35
Ethylbenzene	0.100	0.1106		mg/Kg		111	70 - 130	7	35
m,p-Xylenes	0.200	0.2300		mg/Kg		115	70 - 130	7	35
o-Xylene	0.100	0.1169		mg/Kg		117	70 - 130	5	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-33751-1 MS

Matrix: Solid

Analysis Batch: 63921

Client Sample ID: C-1 2'

Prep Type: Total/NA

Prep Batch: 63676

Analyte	Sample		Spike	MS	MS	Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
Benzene	<0.00200	U	0.0996	0.08446		mg/Kg		85	70 - 130			
Toluene	<0.00200	U	0.0996	0.08082		mg/Kg		81	70 - 130			
Ethylbenzene	<0.00200	U	0.0996	0.08253		mg/Kg		83	70 - 130			
m,p-Xylenes	<0.00401	U	0.199	0.1584		mg/Kg		80	70 - 130			
o-Xylene	<0.00200	U	0.0996	0.08181		mg/Kg		82	70 - 130			

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-33751-1 MSD

Matrix: Solid

Analysis Batch: 63921

Client Sample ID: C-1 2'

Prep Type: Total/NA

Prep Batch: 63676

Analyte	Sample		Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Benzene	<0.00200	U	0.0994	0.1057		mg/Kg		106	70 - 130	22	35	
Toluene	<0.00200	U	0.0994	0.1040		mg/Kg		105	70 - 130	25	35	
Ethylbenzene	<0.00200	U	0.0994	0.1057		mg/Kg		106	70 - 130	25	35	
m,p-Xylenes	<0.00401	U	0.199	0.2011		mg/Kg		101	70 - 130	24	35	
o-Xylene	<0.00200	U	0.0994	0.1023		mg/Kg		103	70 - 130	22	35	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-63677/5-A

Matrix: Solid

Analysis Batch: 63991

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63677

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:10	10/05/23 12:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:10	10/05/23 12:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:10	10/05/23 12:07	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/29/23 17:10	10/05/23 12:07	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-33751-1
SDG: 22-0105-14

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

Lab Sample ID: MB 880-63677/5-A

Matrix: Solid

Analysis Batch: 63991

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63677

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/23 17:10	10/05/23 12:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/29/23 17:10	10/05/23 12:07	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	114		70 - 130			09/29/23 17:10	10/05/23 12:07	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130			09/29/23 17:10	10/05/23 12:07	1

Lab Sample ID: MB 880-63970/5-A

Matrix: Solid

Analysis Batch: 63991

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63970

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 00:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 00:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 00:04	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		10/04/23 16:40	10/06/23 00:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/23 16:40	10/06/23 00:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/23 16:40	10/06/23 00:04	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			10/04/23 16:40	10/06/23 00:04	1
1,4-Difluorobenzene (Surr)	126		70 - 130			10/04/23 16:40	10/06/23 00:04	1

Lab Sample ID: LCS 880-63970/1-A

Matrix: Solid

Analysis Batch: 63991

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1108		mg/Kg		111	70 - 130		
Toluene	0.100	0.09330		mg/Kg		93	70 - 130		
Ethylbenzene	0.100	0.09463		mg/Kg		95	70 - 130		
m,p-Xylenes	0.200	0.2280		mg/Kg		114	70 - 130		
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130		
Surrogate	LCS	LCS	Limits			%Recovery	Qualifier		
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	104		70 - 130						
1,4-Difluorobenzene (Surr)	113		70 - 130						

Lab Sample ID: LCSD 880-63970/2-A

Matrix: Solid

Analysis Batch: 63991

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1040		mg/Kg		104	70 - 130	6	35
Toluene	0.100	0.08246		mg/Kg		82	70 - 130	12	35
Ethylbenzene	0.100	0.07641		mg/Kg		76	70 - 130	21	35
m,p-Xylenes	0.200	0.1887		mg/Kg		94	70 - 130	19	35
o-Xylene	0.100	0.09384		mg/Kg		94	70 - 130	17	35

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: LCS 880-63536/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 63573				Prep Batch: 63536			
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Gasoline Range Organics (GRO)-C6-C10	1000	949.5		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	902.3		mg/Kg		90	70 - 130
							</

Lab Sample ID: LCSD 880-63536/3-A					Client Sample ID: Lab Control Sample Dup					
Matrix: Solid					Prep Type: Total/NA					
Analysis Batch: 63573					Prep Batch: 63536					
Analyte			Spike	LCSD	LCSD			%Rec		RPD
			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Gasoline Range Organics (GRO)-C6-C10			1000	905.2		mg/Kg		91	70 - 130	5
Diesel Range Organics (Over C10-C28)			1000	979.2		mg/Kg		98	70 - 130	8

Lab Sample ID: 880-33751-1 MS							Client Sample ID: C-1 2'				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 63573							Prep Batch: 63536				
Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	1010	737.5		mg/Kg		70	70 - 130		
Diesel Range Organics (Over C10-C28)	88.8	F1	1010	571.1	F1	mg/Kg		48	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane (Surr)	76		70 - 130								
o-Terphenyl (Surr)	63	S1-	70 - 130								

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-33751-1 MSD
Matrix: Solid
Analysis Batch: 63573

Client Sample ID: C-1 2'
Prep Type: Total/NA
Prep Batch: 63536

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 F1	1010	721.8	F1	mg/Kg		69	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	88.8	F1	1010	535.5	F1	mg/Kg		44	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	72		70 - 130								
o-Terphenyl (Surr)	59	S1-	70 - 130								

Lab Sample ID: MB 880-63538/1-A
Matrix: Solid
Analysis Batch: 63575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63538

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		09/28/23 14:02	09/29/23 07:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/23 14:02	09/29/23 07:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/23 14:02	09/29/23 07:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	97		70 - 130	09/28/23 14:02	09/29/23 07:54	1		
o-Terphenyl (Surr)	118		70 - 130	09/28/23 14:02	09/29/23 07:54	1		

Lab Sample ID: LCS 880-63538/2-A
Matrix: Solid
Analysis Batch: 63575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1130		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1110		mg/Kg		111	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	104		70 - 130						
o-Terphenyl (Surr)	112		70 - 130						

Lab Sample ID: LCSD 880-63538/3-A
Matrix: Solid
Analysis Batch: 63575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63538

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	953.1		mg/Kg		95	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	1082		mg/Kg		108	70 - 130	3	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-63538/3-A
Matrix: Solid
Analysis Batch: 63575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63538

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	96		70 - 130
o-Terphenyl (Surr)	102		70 - 130

Lab Sample ID: 880-33751-21 MS
Matrix: Solid
Analysis Batch: 63575

Client Sample ID: C-21 3'
Prep Type: Total/NA
Prep Batch: 63538

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1	1010	641.7	F1	mg/Kg		62	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1010	603.8	F1	mg/Kg		56	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	64	S1-	70 - 130							
o-Terphenyl (Surr)	60	S1-	70 - 130							

Lab Sample ID: 880-33751-21 MSD
Matrix: Solid
Analysis Batch: 63575

Client Sample ID: C-21 3'
Prep Type: Total/NA
Prep Batch: 63538

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1	1010	630.6	F1	mg/Kg		60	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1010	610.1	F1	mg/Kg		57	70 - 130	1	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane (Surr)	64	S1-	70 - 130									
o-Terphenyl (Surr)	60	S1-	70 - 130									

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - IN3

Lab Sample ID: MB 880-63536/1-A
Matrix: Solid
Analysis Batch: 63573

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63536

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac	
Gasoline Range Organics (GRO)-C6-C10 - IN3	<50.0	U	50.0	mg/Kg		09/28/23 13:50	09/29/23 07:54	1		
Diesel Range Organics (Over C10-C28) - IN3	<50.0	U	50.0	mg/Kg		09/28/23 13:50	09/29/23 07:54	1		
Oil Range Organics (Over C28-C36) - IN3	<50.0	U	50.0	mg/Kg		09/28/23 13:50	09/29/23 07:54	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac	
1-Chlorooctane (Surr) - IN3	97		70 - 130			09/28/23 13:50	09/29/23 07:54	1		
o-Terphenyl (Surr) - IN3	100		70 - 130			09/28/23 13:50	09/29/23 07:54	1		

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-63527/1-A

Matrix: Solid

Analysis Batch: 63842

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/02/23 22:24	1

Lab Sample ID: LCS 880-63527/2-A

Matrix: Solid

Analysis Batch: 63842

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.1		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-63527/3-A

Matrix: Solid

Analysis Batch: 63842

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	243.7		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-33751-11 MS

Matrix: Solid

Analysis Batch: 63842

Client Sample ID: C-11 3'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	944	F1	252	1097	F1	mg/Kg		61	90 - 110

Lab Sample ID: 880-33751-11 MSD

Matrix: Solid

Analysis Batch: 63842

Client Sample ID: C-11 3'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	944	F1	252	1095	F1	mg/Kg		60	90 - 110	0	20

Lab Sample ID: 880-33751-21 MS

Matrix: Solid

Analysis Batch: 63842

Client Sample ID: C-21 3'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	735	F1	253	939.5	F1	mg/Kg		81	90 - 110

Lab Sample ID: 880-33751-21 MSD

Matrix: Solid

Analysis Batch: 63842

Client Sample ID: C-21 3'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	735	F1	253	939.7	F1	mg/Kg		81	90 - 110	0	20

Lab Sample ID: MB 880-63526/1-A

Matrix: Solid

Analysis Batch: 63843

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/03/23 01:48	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-63526/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 63843

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	245.1		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-63526/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 63843

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.6		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-33751-1 MS

Client Sample ID: C-1 2'

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 63843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	804	F1	248	991.0	F1	mg/Kg		75	90 - 110		

Lab Sample ID: 880-33751-1 MSD

Client Sample ID: C-1 2'

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 63843

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	804	F1	248	990.4	F1	mg/Kg		75	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

GC VOA

Prep Batch: 63673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-63673/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 63676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-1	C-1 2'	Total/NA	Solid	5035	
880-33751-2	C-2 2'	Total/NA	Solid	5035	
880-33751-3	C-3 4.1'	Total/NA	Solid	5035	
880-33751-4	C-4 4.1'	Total/NA	Solid	5035	
880-33751-5	C-5 4.1'	Total/NA	Solid	5035	
880-33751-6	C-6 4.1'	Total/NA	Solid	5035	
880-33751-7	C-7 3'	Total/NA	Solid	5035	
880-33751-8	C-8 2'	Total/NA	Solid	5035	
880-33751-9	C-9 3'	Total/NA	Solid	5035	
880-33751-10	C-10 3'	Total/NA	Solid	5035	
880-33751-11	C-11 3'	Total/NA	Solid	5035	
880-33751-12	C-12 3'	Total/NA	Solid	5035	
880-33751-13	C-13 1'	Total/NA	Solid	5035	
880-33751-14	C-14 1'	Total/NA	Solid	5035	
880-33751-15	C-15 1'	Total/NA	Solid	5035	
880-33751-16	C-16 3'	Total/NA	Solid	5035	
880-33751-17	C-17 3'	Total/NA	Solid	5035	
880-33751-18	C-18 3'	Total/NA	Solid	5035	
880-33751-19	C-19 3'	Total/NA	Solid	5035	
880-33751-20	C-20 3'	Total/NA	Solid	5035	
MB 880-63676/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63676/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63676/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33751-1 MS	C-1 2'	Total/NA	Solid	5035	
880-33751-1 MSD	C-1 2'	Total/NA	Solid	5035	

Prep Batch: 63677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-63677/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 63921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-1	C-1 2'	Total/NA	Solid	8021B	63676
880-33751-2	C-2 2'	Total/NA	Solid	8021B	63676
880-33751-3	C-3 4.1'	Total/NA	Solid	8021B	63676
880-33751-4	C-4 4.1'	Total/NA	Solid	8021B	63676
880-33751-5	C-5 4.1'	Total/NA	Solid	8021B	63676
880-33751-6	C-6 4.1'	Total/NA	Solid	8021B	63676
880-33751-7	C-7 3'	Total/NA	Solid	8021B	63676
880-33751-8	C-8 2'	Total/NA	Solid	8021B	63676
880-33751-9	C-9 3'	Total/NA	Solid	8021B	63676
880-33751-10	C-10 3'	Total/NA	Solid	8021B	63676
880-33751-11	C-11 3'	Total/NA	Solid	8021B	63676
880-33751-12	C-12 3'	Total/NA	Solid	8021B	63676
880-33751-13	C-13 1'	Total/NA	Solid	8021B	63676
880-33751-14	C-14 1'	Total/NA	Solid	8021B	63676
880-33751-15	C-15 1'	Total/NA	Solid	8021B	63676

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

GC VOA (Continued)

Analysis Batch: 63921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-16	C-16 3'	Total/NA	Solid	8021B	63676
880-33751-17	C-17 3'	Total/NA	Solid	8021B	63676
880-33751-18	C-18 3'	Total/NA	Solid	8021B	63676
880-33751-19	C-19 3'	Total/NA	Solid	8021B	63676
880-33751-20	C-20 3'	Total/NA	Solid	8021B	63676
MB 880-63673/5-A	Method Blank	Total/NA	Solid	8021B	63673
MB 880-63676/5-A	Method Blank	Total/NA	Solid	8021B	63676
LCS 880-63676/1-A	Lab Control Sample	Total/NA	Solid	8021B	63676
LCSD 880-63676/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63676
880-33751-1 MS	C-1 2'	Total/NA	Solid	8021B	63676
880-33751-1 MSD	C-1 2'	Total/NA	Solid	8021B	63676

Prep Batch: 63970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-21	C-21 3'	Total/NA	Solid	5035	
880-33751-22	C-22 3'	Total/NA	Solid	5035	
880-33751-23	C-23 3'	Total/NA	Solid	5035	
880-33751-24	C-24 3'	Total/NA	Solid	5035	
880-33751-25	C-25 3'	Total/NA	Solid	5035	
880-33751-26	C-26 0-3'	Total/NA	Solid	5035	
880-33751-27	C-27 0-1'	Total/NA	Solid	5035	
880-33751-28	C-28 0-3'	Total/NA	Solid	5035	
880-33751-29	C-29 0-4.1'	Total/NA	Solid	5035	
MB 880-63970/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63970/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63970/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 63991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-21	C-21 3'	Total/NA	Solid	8021B	63970
880-33751-22	C-22 3'	Total/NA	Solid	8021B	63970
880-33751-23	C-23 3'	Total/NA	Solid	8021B	63970
880-33751-24	C-24 3'	Total/NA	Solid	8021B	63970
880-33751-25	C-25 3'	Total/NA	Solid	8021B	63970
880-33751-26	C-26 0-3'	Total/NA	Solid	8021B	63970
880-33751-27	C-27 0-1'	Total/NA	Solid	8021B	63970
880-33751-28	C-28 0-3'	Total/NA	Solid	8021B	63970
880-33751-29	C-29 0-4.1'	Total/NA	Solid	8021B	63970
MB 880-63677/5-A	Method Blank	Total/NA	Solid	8021B	63677
MB 880-63970/5-A	Method Blank	Total/NA	Solid	8021B	63970
LCS 880-63970/1-A	Lab Control Sample	Total/NA	Solid	8021B	63970
LCSD 880-63970/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63970

Analysis Batch: 64035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-1	C-1 2'	Total/NA	Solid	Total BTEX	
880-33751-2	C-2 2'	Total/NA	Solid	Total BTEX	
880-33751-3	C-3 4.1'	Total/NA	Solid	Total BTEX	
880-33751-4	C-4 4.1'	Total/NA	Solid	Total BTEX	
880-33751-5	C-5 4.1'	Total/NA	Solid	Total BTEX	
880-33751-6	C-6 4.1'	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

GC VOA (Continued)

Analysis Batch: 64035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-7	C-7 3'	Total/NA	Solid	Total BTEX	
880-33751-8	C-8 2'	Total/NA	Solid	Total BTEX	
880-33751-9	C-9 3'	Total/NA	Solid	Total BTEX	
880-33751-10	C-10 3'	Total/NA	Solid	Total BTEX	
880-33751-11	C-11 3'	Total/NA	Solid	Total BTEX	
880-33751-12	C-12 3'	Total/NA	Solid	Total BTEX	
880-33751-13	C-13 1'	Total/NA	Solid	Total BTEX	
880-33751-14	C-14 1'	Total/NA	Solid	Total BTEX	
880-33751-15	C-15 1'	Total/NA	Solid	Total BTEX	
880-33751-16	C-16 3'	Total/NA	Solid	Total BTEX	
880-33751-17	C-17 3'	Total/NA	Solid	Total BTEX	
880-33751-18	C-18 3'	Total/NA	Solid	Total BTEX	
880-33751-19	C-19 3'	Total/NA	Solid	Total BTEX	
880-33751-20	C-20 3'	Total/NA	Solid	Total BTEX	
880-33751-21	C-21 3'	Total/NA	Solid	Total BTEX	
880-33751-22	C-22 3'	Total/NA	Solid	Total BTEX	
880-33751-23	C-23 3'	Total/NA	Solid	Total BTEX	
880-33751-24	C-24 3'	Total/NA	Solid	Total BTEX	
880-33751-25	C-25 3'	Total/NA	Solid	Total BTEX	
880-33751-26	C-26 0-3'	Total/NA	Solid	Total BTEX	
880-33751-27	C-27 0-1'	Total/NA	Solid	Total BTEX	
880-33751-28	C-28 0-3'	Total/NA	Solid	Total BTEX	
880-33751-29	C-29 0-4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 63536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-1	C-1 2'	Total/NA	Solid	8015NM Prep	
880-33751-2	C-2 2'	Total/NA	Solid	8015NM Prep	
880-33751-3	C-3 4.1'	Total/NA	Solid	8015NM Prep	
880-33751-4	C-4 4.1'	Total/NA	Solid	8015NM Prep	
880-33751-5	C-5 4.1'	Total/NA	Solid	8015NM Prep	
880-33751-6	C-6 4.1'	Total/NA	Solid	8015NM Prep	
880-33751-7	C-7 3'	Total/NA	Solid	8015NM Prep	
880-33751-8	C-8 2'	Total/NA	Solid	8015NM Prep	
880-33751-9	C-9 3'	Total/NA	Solid	8015NM Prep	
880-33751-10	C-10 3'	Total/NA	Solid	8015NM Prep	
880-33751-11	C-11 3'	Total/NA	Solid	8015NM Prep	
880-33751-12	C-12 3'	Total/NA	Solid	8015NM Prep	
880-33751-13	C-13 1'	Total/NA	Solid	8015NM Prep	
880-33751-14	C-14 1'	Total/NA	Solid	8015NM Prep	
880-33751-15	C-15 1'	Total/NA	Solid	8015NM Prep	
880-33751-16	C-16 3'	Total/NA	Solid	8015NM Prep	
880-33751-17	C-17 3'	Total/NA	Solid	8015NM Prep	
880-33751-18	C-18 3'	Total/NA	Solid	8015NM Prep	
880-33751-19	C-19 3'	Total/NA	Solid	8015NM Prep	
880-33751-20	C-20 3'	Total/NA	Solid	8015NM Prep	
MB 880-63536/1-A - IN3	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63536/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63536/3-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: 880-33751-1
SDG: 22-0105-14

GC Semi VOA (Continued)

Prep Batch: 63536 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-1 MS	C-1 2'	Total/NA	Solid	8015NM Prep	
880-33751-1 MSD	C-1 2'	Total/NA	Solid	8015NM Prep	

Prep Batch: 63538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-21	C-21 3'	Total/NA	Solid	8015NM Prep	
880-33751-22	C-22 3'	Total/NA	Solid	8015NM Prep	
880-33751-23	C-23 3'	Total/NA	Solid	8015NM Prep	
880-33751-24	C-24 3'	Total/NA	Solid	8015NM Prep	
880-33751-25	C-25 3'	Total/NA	Solid	8015NM Prep	
880-33751-26	C-26 0-3'	Total/NA	Solid	8015NM Prep	
880-33751-27	C-27 0-1'	Total/NA	Solid	8015NM Prep	
880-33751-28	C-28 0-3'	Total/NA	Solid	8015NM Prep	
880-33751-29	C-29 0-4.1'	Total/NA	Solid	8015NM Prep	
MB 880-63538/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63538/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63538/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33751-21 MS	C-21 3'	Total/NA	Solid	8015NM Prep	
880-33751-21 MSD	C-21 3'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 63573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-1	C-1 2'	Total/NA	Solid	8015B NM	63536
880-33751-2	C-2 2'	Total/NA	Solid	8015B NM	63536
880-33751-3	C-3 4.1'	Total/NA	Solid	8015B NM	63536
880-33751-4	C-4 4.1'	Total/NA	Solid	8015B NM	63536
880-33751-5	C-5 4.1'	Total/NA	Solid	8015B NM	63536
880-33751-6	C-6 4.1'	Total/NA	Solid	8015B NM	63536
880-33751-7	C-7 3'	Total/NA	Solid	8015B NM	63536
880-33751-8	C-8 2'	Total/NA	Solid	8015B NM	63536
880-33751-9	C-9 3'	Total/NA	Solid	8015B NM	63536
880-33751-10	C-10 3'	Total/NA	Solid	8015B NM	63536
880-33751-11	C-11 3'	Total/NA	Solid	8015B NM	63536
880-33751-12	C-12 3'	Total/NA	Solid	8015B NM	63536
880-33751-13	C-13 1'	Total/NA	Solid	8015B NM	63536
880-33751-14	C-14 1'	Total/NA	Solid	8015B NM	63536
880-33751-15	C-15 1'	Total/NA	Solid	8015B NM	63536
880-33751-16	C-16 3'	Total/NA	Solid	8015B NM	63536
880-33751-17	C-17 3'	Total/NA	Solid	8015B NM	63536
880-33751-18	C-18 3'	Total/NA	Solid	8015B NM	63536
880-33751-19	C-19 3'	Total/NA	Solid	8015B NM	63536
880-33751-20	C-20 3'	Total/NA	Solid	8015B NM	63536
MB 880-63536/1-A - IN3	Method Blank	Total/NA	Solid	8015B NM	63536
LCS 880-63536/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63536
LCSD 880-63536/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63536
880-33751-1 MS	C-1 2'	Total/NA	Solid	8015B NM	63536
880-33751-1 MSD	C-1 2'	Total/NA	Solid	8015B NM	63536

Analysis Batch: 63575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-21	C-21 3'	Total/NA	Solid	8015B NM	63538

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

GC Semi VOA (Continued)

Analysis Batch: 63575 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-22	C-22 3'	Total/NA	Solid	8015B NM	63538
880-33751-23	C-23 3'	Total/NA	Solid	8015B NM	63538
880-33751-24	C-24 3'	Total/NA	Solid	8015B NM	63538
880-33751-25	C-25 3'	Total/NA	Solid	8015B NM	63538
880-33751-26	C-26 0-3'	Total/NA	Solid	8015B NM	63538
880-33751-27	C-27 0-1'	Total/NA	Solid	8015B NM	63538
880-33751-28	C-28 0-3'	Total/NA	Solid	8015B NM	63538
880-33751-29	C-29 0-4.1'	Total/NA	Solid	8015B NM	63538
MB 880-63538/1-A	Method Blank	Total/NA	Solid	8015B NM	63538
LCS 880-63538/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63538
LCSD 880-63538/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63538
880-33751-21 MS	C-21 3'	Total/NA	Solid	8015B NM	63538
880-33751-21 MSD	C-21 3'	Total/NA	Solid	8015B NM	63538

Analysis Batch: 63724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-1	C-1 2'	Total/NA	Solid	8015 NM	
880-33751-2	C-2 2'	Total/NA	Solid	8015 NM	
880-33751-3	C-3 4.1'	Total/NA	Solid	8015 NM	
880-33751-4	C-4 4.1'	Total/NA	Solid	8015 NM	
880-33751-5	C-5 4.1'	Total/NA	Solid	8015 NM	
880-33751-6	C-6 4.1'	Total/NA	Solid	8015 NM	
880-33751-7	C-7 3'	Total/NA	Solid	8015 NM	
880-33751-8	C-8 2'	Total/NA	Solid	8015 NM	
880-33751-9	C-9 3'	Total/NA	Solid	8015 NM	
880-33751-10	C-10 3'	Total/NA	Solid	8015 NM	
880-33751-11	C-11 3'	Total/NA	Solid	8015 NM	
880-33751-12	C-12 3'	Total/NA	Solid	8015 NM	
880-33751-13	C-13 1'	Total/NA	Solid	8015 NM	
880-33751-14	C-14 1'	Total/NA	Solid	8015 NM	
880-33751-15	C-15 1'	Total/NA	Solid	8015 NM	
880-33751-16	C-16 3'	Total/NA	Solid	8015 NM	
880-33751-17	C-17 3'	Total/NA	Solid	8015 NM	
880-33751-18	C-18 3'	Total/NA	Solid	8015 NM	
880-33751-19	C-19 3'	Total/NA	Solid	8015 NM	
880-33751-20	C-20 3'	Total/NA	Solid	8015 NM	
880-33751-21	C-21 3'	Total/NA	Solid	8015 NM	
880-33751-22	C-22 3'	Total/NA	Solid	8015 NM	
880-33751-23	C-23 3'	Total/NA	Solid	8015 NM	
880-33751-24	C-24 3'	Total/NA	Solid	8015 NM	
880-33751-25	C-25 3'	Total/NA	Solid	8015 NM	
880-33751-26	C-26 0-3'	Total/NA	Solid	8015 NM	
880-33751-27	C-27 0-1'	Total/NA	Solid	8015 NM	
880-33751-28	C-28 0-3'	Total/NA	Solid	8015 NM	
880-33751-29	C-29 0-4.1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 63526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-1	C-1 2'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

HPLC/IC (Continued)

Leach Batch: 63526 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-2	C-2 2'	Soluble	Solid	DI Leach	
880-33751-3	C-3 4.1'	Soluble	Solid	DI Leach	
880-33751-4	C-4 4.1'	Soluble	Solid	DI Leach	
880-33751-5	C-5 4.1'	Soluble	Solid	DI Leach	
880-33751-6	C-6 4.1'	Soluble	Solid	DI Leach	
880-33751-7	C-7 3'	Soluble	Solid	DI Leach	
880-33751-8	C-8 2'	Soluble	Solid	DI Leach	
880-33751-9	C-9 3'	Soluble	Solid	DI Leach	
880-33751-10	C-10 3'	Soluble	Solid	DI Leach	
MB 880-63526/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63526/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63526/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33751-1 MS	C-1 2'	Soluble	Solid	DI Leach	
880-33751-1 MSD	C-1 2'	Soluble	Solid	DI Leach	

Leach Batch: 63527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-11	C-11 3'	Soluble	Solid	DI Leach	
880-33751-12	C-12 3'	Soluble	Solid	DI Leach	
880-33751-13	C-13 1'	Soluble	Solid	DI Leach	
880-33751-14	C-14 1'	Soluble	Solid	DI Leach	
880-33751-15	C-15 1'	Soluble	Solid	DI Leach	
880-33751-16	C-16 3'	Soluble	Solid	DI Leach	
880-33751-17	C-17 3'	Soluble	Solid	DI Leach	
880-33751-18	C-18 3'	Soluble	Solid	DI Leach	
880-33751-19	C-19 3'	Soluble	Solid	DI Leach	
880-33751-20	C-20 3'	Soluble	Solid	DI Leach	
880-33751-21	C-21 3'	Soluble	Solid	DI Leach	
880-33751-22	C-22 3'	Soluble	Solid	DI Leach	
880-33751-23	C-23 3'	Soluble	Solid	DI Leach	
880-33751-24	C-24 3'	Soluble	Solid	DI Leach	
880-33751-25	C-25 3'	Soluble	Solid	DI Leach	
880-33751-26	C-26 0-3'	Soluble	Solid	DI Leach	
880-33751-27	C-27 0-1'	Soluble	Solid	DI Leach	
880-33751-28	C-28 0-3'	Soluble	Solid	DI Leach	
880-33751-29	C-29 0-4.1'	Soluble	Solid	DI Leach	
MB 880-63527/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63527/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63527/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33751-11 MS	C-11 3'	Soluble	Solid	DI Leach	
880-33751-11 MSD	C-11 3'	Soluble	Solid	DI Leach	
880-33751-21 MS	C-21 3'	Soluble	Solid	DI Leach	
880-33751-21 MSD	C-21 3'	Soluble	Solid	DI Leach	

Analysis Batch: 63842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-11	C-11 3'	Soluble	Solid	300.0	63527
880-33751-12	C-12 3'	Soluble	Solid	300.0	63527
880-33751-13	C-13 1'	Soluble	Solid	300.0	63527
880-33751-14	C-14 1'	Soluble	Solid	300.0	63527
880-33751-15	C-15 1'	Soluble	Solid	300.0	63527

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

HPLC/IC (Continued)

Analysis Batch: 63842 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-16	C-16 3'	Soluble	Solid	300.0	63527
880-33751-17	C-17 3'	Soluble	Solid	300.0	63527
880-33751-18	C-18 3'	Soluble	Solid	300.0	63527
880-33751-19	C-19 3'	Soluble	Solid	300.0	63527
880-33751-20	C-20 3'	Soluble	Solid	300.0	63527
880-33751-21	C-21 3'	Soluble	Solid	300.0	63527
880-33751-22	C-22 3'	Soluble	Solid	300.0	63527
880-33751-23	C-23 3'	Soluble	Solid	300.0	63527
880-33751-24	C-24 3'	Soluble	Solid	300.0	63527
880-33751-25	C-25 3'	Soluble	Solid	300.0	63527
880-33751-26	C-26 0-3'	Soluble	Solid	300.0	63527
880-33751-27	C-27 0-1'	Soluble	Solid	300.0	63527
880-33751-28	C-28 0-3'	Soluble	Solid	300.0	63527
880-33751-29	C-29 0-4.1'	Soluble	Solid	300.0	63527
MB 880-63527/1-A	Method Blank	Soluble	Solid	300.0	63527
LCS 880-63527/2-A	Lab Control Sample	Soluble	Solid	300.0	63527
LCSD 880-63527/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63527
880-33751-11 MS	C-11 3'	Soluble	Solid	300.0	63527
880-33751-11 MSD	C-11 3'	Soluble	Solid	300.0	63527
880-33751-21 MS	C-21 3'	Soluble	Solid	300.0	63527
880-33751-21 MSD	C-21 3'	Soluble	Solid	300.0	63527

Analysis Batch: 63843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-1	C-1 2'	Soluble	Solid	300.0	63526
880-33751-2	C-2 2'	Soluble	Solid	300.0	63526
880-33751-3	C-3 4.1'	Soluble	Solid	300.0	63526
880-33751-4	C-4 4.1'	Soluble	Solid	300.0	63526
880-33751-5	C-5 4.1'	Soluble	Solid	300.0	63526
880-33751-6	C-6 4.1'	Soluble	Solid	300.0	63526
880-33751-7	C-7 3'	Soluble	Solid	300.0	63526
880-33751-8	C-8 2'	Soluble	Solid	300.0	63526
880-33751-9	C-9 3'	Soluble	Solid	300.0	63526
880-33751-10	C-10 3'	Soluble	Solid	300.0	63526
MB 880-63526/1-A	Method Blank	Soluble	Solid	300.0	63526
LCS 880-63526/2-A	Lab Control Sample	Soluble	Solid	300.0	63526
LCSD 880-63526/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63526
880-33751-1 MS	C-1 2'	Soluble	Solid	300.0	63526
880-33751-1 MSD	C-1 2'	Soluble	Solid	300.0	63526

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-1 2'

Date Collected: 09/27/23 09:00

Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/04/23 23:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/04/23 23:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 10:35	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	63526	09/28/23 12:42	SMC	EET MID
Soluble	Analysis	300.0		1			63843	10/03/23 02:05	CH	EET MID

Client Sample ID: C-2 2'

Date Collected: 09/27/23 09:05

Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/04/23 23:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/04/23 23:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 11:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 11:44	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	63526	09/28/23 12:42	SMC	EET MID
Soluble	Analysis	300.0		1			63843	10/03/23 02:23	CH	EET MID

Client Sample ID: C-3 4.1'

Date Collected: 09/27/23 09:10

Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/04/23 23:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/04/23 23:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 12:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	63526	09/28/23 12:42	SMC	EET MID
Soluble	Analysis	300.0		1			63843	10/03/23 02:29	CH	EET MID

Client Sample ID: C-4 4.1'

Date Collected: 09/27/23 09:15

Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 00:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 00:16	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-4 4.1'
Date Collected: 09/27/23 09:15
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-4
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			63724	09/29/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 12:30	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	63526	09/28/23 12:42	SMC	EET MID
Soluble	Analysis	300.0		1			63843	10/03/23 02:34	CH	EET MID

Client Sample ID: C-5 4.1'
Date Collected: 09/27/23 09:20
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 00:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 00:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 12:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 12:53	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	63526	09/28/23 12:42	SMC	EET MID
Soluble	Analysis	300.0		1			63843	10/03/23 02:40	CH	EET MID

Client Sample ID: C-6 4.1'
Date Collected: 09/27/23 09:25
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 00:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 00:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 13:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 13:16	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	63526	09/28/23 12:42	SMC	EET MID
Soluble	Analysis	300.0		5			63843	10/03/23 02:58	CH	EET MID

Client Sample ID: C-7 3'
Date Collected: 09/27/23 09:30
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 01:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 01:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 13:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 13:39	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-7 3'
Date Collected: 09/27/23 09:30
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	63526	09/28/23 12:42	SMC	EET MID
Soluble	Analysis	300.0		1			63843	10/03/23 03:04	CH	EET MID

Client Sample ID: C-8 2'
Date Collected: 09/27/23 09:35
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 01:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 01:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 14:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 14:03	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	63526	09/28/23 12:42	SMC	EET MID
Soluble	Analysis	300.0		10			63843	10/03/23 03:09	CH	EET MID

Client Sample ID: C-9 3'
Date Collected: 09/27/23 09:40
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 01:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 01:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 14:26	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	63526	09/28/23 12:42	SMC	EET MID
Soluble	Analysis	300.0		1			63843	10/03/23 03:15	CH	EET MID

Client Sample ID: C-10 3'
Date Collected: 09/27/23 09:45
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 02:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 02:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 14:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 14:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	63526	09/28/23 12:42	SMC	EET MID
Soluble	Analysis	300.0		1			63843	10/03/23 03:21	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-11 3'

Date Collected: 09/27/23 09:50

Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 03:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 03:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 15:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 15:38	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/02/23 22:41	CH	EET MID

Client Sample ID: C-12 3'

Date Collected: 09/27/23 09:55

Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 04:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 04:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 16:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 16:01	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/02/23 22:59	CH	EET MID

Client Sample ID: C-13 1'

Date Collected: 09/27/23 10:00

Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 04:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 04:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 16:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 16:25	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		5			63842	10/02/23 23:05	CH	EET MID

Client Sample ID: C-14 1'

Date Collected: 09/27/23 10:05

Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 04:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 04:41	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-14 1'

Lab Sample ID: 880-33751-14

Date Collected: 09/27/23 10:05

Matrix: Solid

Date Received: 09/28/23 09:14

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			63724	09/29/23 16:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 16:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		5			63842	10/02/23 23:10	CH	EET MID

Client Sample ID: C-15 1'

Lab Sample ID: 880-33751-15

Date Collected: 09/27/23 10:10

Matrix: Solid

Date Received: 09/28/23 09:14

Prep 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	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 05:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 05:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 17:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 17:12	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		5			63842	10/02/23 23:16	CH	EET MID

Client Sample ID: C-16 3'

Lab Sample ID: 880-33751-16

Date Collected: 09/27/23 10:15

Matrix: Solid

Date Received: 09/28/23 09:14

Prep 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	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 05:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 05:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 17:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 17:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/02/23 23:34	CH	EET MID

Client Sample ID: C-17 3'

Lab Sample ID: 880-33751-17

Date Collected: 09/27/23 10:20

Matrix: Solid

Date Received: 09/28/23 09:14

Prep 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	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 05:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 05:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 17:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-17 3'

Date Collected: 09/27/23 10:20

Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/02/23 23:40	CH	EET MID

Client Sample ID: C-18 3'

Date Collected: 09/27/23 10:25

Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 06:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 06:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 18:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 18:22	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/02/23 23:45	CH	EET MID

Client Sample ID: C-19 3'

Date Collected: 09/27/23 10:30

Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 06:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 06:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 18:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 18:45	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/02/23 23:51	CH	EET MID

Client Sample ID: C-20 3'

Date Collected: 09/27/23 10:35

Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63676	09/29/23 17:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63921	10/05/23 06:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/05/23 06:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 19:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	63536	09/28/23 13:50	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63573	09/29/23 19:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/02/23 23:57	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-21 3'
Date Collected: 09/27/23 10:40
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63970	10/04/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63991	10/06/23 05:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/06/23 05:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	63538	09/28/23 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63575	09/29/23 10:35	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/03/23 00:03	CH	EET MID

Client Sample ID: C-22 3'
Date Collected: 09/27/23 10:45
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63970	10/04/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63991	10/06/23 06:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/06/23 06:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 11:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	63538	09/28/23 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63575	09/29/23 11:44	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		5			63842	10/03/23 00:20	CH	EET MID

Client Sample ID: C-23 3'
Date Collected: 09/27/23 10:50
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	63970	10/04/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63991	10/06/23 06:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/06/23 06:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	63538	09/28/23 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63575	09/29/23 12:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/03/23 00:26	CH	EET MID

Client Sample ID: C-24 3'
Date Collected: 09/27/23 10:55
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63970	10/04/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63991	10/06/23 06:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/06/23 06:48	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-24 3'

Lab Sample ID: 880-33751-24

Date Collected: 09/27/23 10:55

Matrix: Solid

Date Received: 09/28/23 09:14

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			63724	09/29/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	63538	09/28/23 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63575	09/29/23 12:30	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		5			63842	10/03/23 00:44	CH	EET MID

Client Sample ID: C-25 3'

Lab Sample ID: 880-33751-25

Date Collected: 09/27/23 11:00

Matrix: Solid

Date Received: 09/28/23 09:14

Prep 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	63970	10/04/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63991	10/06/23 07:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/06/23 07:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 12:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	63538	09/28/23 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63575	09/29/23 12:53	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/03/23 00:50	CH	EET MID

Client Sample ID: C-26 0-3'

Lab Sample ID: 880-33751-26

Date Collected: 09/27/23 11:05

Matrix: Solid

Date Received: 09/28/23 09:14

Prep 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	63970	10/04/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63991	10/06/23 07:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/06/23 07:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 13:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63538	09/28/23 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63575	09/29/23 13:16	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/03/23 00:55	CH	EET MID

Client Sample ID: C-27 0-1'

Lab Sample ID: 880-33751-27

Date Collected: 09/27/23 11:10

Matrix: Solid

Date Received: 09/28/23 09:14

Prep 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	63970	10/04/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63991	10/06/23 07:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/06/23 07:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 13:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	63538	09/28/23 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63575	09/29/23 13:39	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Client Sample ID: C-27 0-1'
Date Collected: 09/27/23 11:10
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/03/23 01:01	CH	EET MID

Client Sample ID: C-28 0-3'
Date Collected: 09/27/23 11:15
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	63970	10/04/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63991	10/06/23 08:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/06/23 08:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 14:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	63538	09/28/23 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63575	09/29/23 14:03	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/03/23 01:07	CH	EET MID

Client Sample ID: C-29 0-4.1'
Date Collected: 09/27/23 11:20
Date Received: 09/28/23 09:14

Lab Sample ID: 880-33751-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63970	10/04/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63991	10/06/23 08:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64035	10/06/23 08:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			63724	09/29/23 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	63538	09/28/23 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63575	09/29/23 14:26	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	63527	09/28/23 12:45	SMC	EET MID
Soluble	Analysis	300.0		5			63842	10/03/23 01:13	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: 880-33751-1
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	T104704400-23-26	06-30-24

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: 880-33751-1
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	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-33751-1
SDG: 22-0105-14

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-33751-1	C-1 2'	Solid	09/27/23 09:00	09/28/23 09:14
880-33751-2	C-2 2'	Solid	09/27/23 09:05	09/28/23 09:14
880-33751-3	C-3 4.1'	Solid	09/27/23 09:10	09/28/23 09:14
880-33751-4	C-4 4.1'	Solid	09/27/23 09:15	09/28/23 09:14
880-33751-5	C-5 4.1'	Solid	09/27/23 09:20	09/28/23 09:14
880-33751-6	C-6 4.1'	Solid	09/27/23 09:25	09/28/23 09:14
880-33751-7	C-7 3'	Solid	09/27/23 09:30	09/28/23 09:14
880-33751-8	C-8 2'	Solid	09/27/23 09:35	09/28/23 09:14
880-33751-9	C-9 3'	Solid	09/27/23 09:40	09/28/23 09:14
880-33751-10	C-10 3'	Solid	09/27/23 09:45	09/28/23 09:14
880-33751-11	C-11 3'	Solid	09/27/23 09:50	09/28/23 09:14
880-33751-12	C-12 3'	Solid	09/27/23 09:55	09/28/23 09:14
880-33751-13	C-13 1'	Solid	09/27/23 10:00	09/28/23 09:14
880-33751-14	C-14 1'	Solid	09/27/23 10:05	09/28/23 09:14
880-33751-15	C-15 1'	Solid	09/27/23 10:10	09/28/23 09:14
880-33751-16	C-16 3'	Solid	09/27/23 10:15	09/28/23 09:14
880-33751-17	C-17 3'	Solid	09/27/23 10:20	09/28/23 09:14
880-33751-18	C-18 3'	Solid	09/27/23 10:25	09/28/23 09:14
880-33751-19	C-19 3'	Solid	09/27/23 10:30	09/28/23 09:14
880-33751-20	C-20 3'	Solid	09/27/23 10:35	09/28/23 09:14
880-33751-21	C-21 3'	Solid	09/27/23 10:40	09/28/23 09:14
880-33751-22	C-22 3'	Solid	09/27/23 10:45	09/28/23 09:14
880-33751-23	C-23 3'	Solid	09/27/23 10:50	09/28/23 09:14
880-33751-24	C-24 3'	Solid	09/27/23 10:55	09/28/23 09:14
880-33751-25	C-25 3'	Solid	09/27/23 11:00	09/28/23 09:14
880-33751-26	C-26 0-3'	Solid	09/27/23 11:05	09/28/23 09:14
880-33751-27	C-27 0-1'	Solid	09/27/23 11:10	09/28/23 09:14
880-33751-28	C-28 0-3'	Solid	09/27/23 11:15	09/28/23 09:14
880-33751-29	C-29 0-4.1'	Solid	09/27/23 11:20	09/28/23 09:14

10/6/2023

33751 No. 3100
CHAIN-OF-CUSTODY

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-33751-1

SDG Number: 22-0105-14

Login Number: 33751

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 11/14/2023 4:08:25 PM

JOB DESCRIPTION

Sand Dunes Pad 34
22-0105-14

JOB NUMBER

880-35571-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/14/2023 4:08:25 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: 880-35571-1
SDG: 22-0105-14

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	18
Lab Chronicle	21
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	28

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Job ID: 880-35571-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-35571-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/9/2023 8:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: C-30, 1' (880-35571-1), C-31, 1' (880-35571-2), C-32, 1' (880-35571-3), C-33, 1' (880-35571-4), C-34, 1' (880-35571-5), C-35, 1' (880-35571-6), C-36, 3' (880-35571-7), C-37, 3' (880-35571-8) and C-38, 0-3' (880-35571-9).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-30, 1' (880-35571-1), C-31, 1' (880-35571-2), C-32, 1' (880-35571-3), C-33, 1' (880-35571-4), C-34, 1' (880-35571-5), (CCV 880-66703/82), (LCS 880-66702/1-A), (LCSD 880-66702/2-A), (880-35593-A-1-D), (880-35593-A-1-B MS) and (880-35593-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-35, 1' (880-35571-6) and C-38, 0-3' (880-35571-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

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: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Client Sample ID: C-30, 1'

Lab Sample ID: 880-35571-1

Date Collected: 11/08/23 10:00

Matrix: Solid

Date Received: 11/09/23 08:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 08:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 08:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 08:47	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/10/23 10:44	11/12/23 08:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 08:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/10/23 10:44	11/12/23 08:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130	11/10/23 10:44	11/12/23 08:47	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/10/23 10:44	11/12/23 08:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/12/23 08:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			11/12/23 18:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		11/10/23 13:21	11/12/23 18:04	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		11/10/23 13:21	11/12/23 18:04	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		11/10/23 13:21	11/12/23 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130	11/10/23 13:21	11/12/23 18:04	1
o-Terphenyl (Surr)	82		70 - 130	11/10/23 13:21	11/12/23 18:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.5		5.02	mg/Kg			11/13/23 21:06	1

Client Sample ID: C-31, 1'

Lab Sample ID: 880-35571-2

Date Collected: 11/08/23 10:05

Matrix: Solid

Date Received: 11/09/23 08:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 09:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 09:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 09:13	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/10/23 10:44	11/12/23 09:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 09:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/10/23 10:44	11/12/23 09:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	186	S1+	70 - 130	11/10/23 10:44	11/12/23 09:13	1
1,4-Difluorobenzene (Surr)	110		70 - 130	11/10/23 10:44	11/12/23 09:13	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Client Sample ID: C-31, 1'

Lab Sample ID: 880-35571-2

Date Collected: 11/08/23 10:05

Matrix: Solid

Date Received: 11/09/23 08:26

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/12/23 09:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			11/12/23 18:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		11/10/23 13:21	11/12/23 18:30	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		11/10/23 13:21	11/12/23 18:30	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		11/10/23 13:21	11/12/23 18:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			11/10/23 13:21	11/12/23 18:30	1
o-Terphenyl (Surr)	81		70 - 130			11/10/23 13:21	11/12/23 18:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.2		5.05	mg/Kg			11/13/23 21:23	1

Client Sample ID: C-32, 1'

Lab Sample ID: 880-35571-3

Date Collected: 11/08/23 10:10

Matrix: Solid

Date Received: 11/09/23 08:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 09:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 09:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 09:39	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		11/10/23 10:44	11/12/23 09:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 09:39	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/10/23 10:44	11/12/23 09:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			11/10/23 10:44	11/12/23 09:39	1
1,4-Difluorobenzene (Surr)	91		70 - 130			11/10/23 10:44	11/12/23 09:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/12/23 09:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			11/12/23 18:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		11/10/23 13:21	11/12/23 18:54	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		11/10/23 13:21	11/12/23 18:54	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Client Sample ID: C-32, 1'
Date Collected: 11/08/23 10:10
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		11/10/23 13:21	11/12/23 18:54	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	90		70 - 130			11/10/23 13:21	11/12/23 18:54	1	
o-Terphenyl (Surr)	94		70 - 130			11/10/23 13:21	11/12/23 18:54	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	53.1		4.96	mg/Kg			11/13/23 21:29	1	

Client Sample ID: C-33, 1'
Date Collected: 11/08/23 10:20
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 10:06	1	
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 10:06	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 10:06	1	
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		11/10/23 10:44	11/12/23 10:06	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 10:06	1	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/10/23 10:44	11/12/23 10:06	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	216	S1+	70 - 130			11/10/23 10:44	11/12/23 10:06	1	
1,4-Difluorobenzene (Surr)	102		70 - 130			11/10/23 10:44	11/12/23 10:06	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/12/23 10:06	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg			11/12/23 19:19	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/10/23 13:21	11/12/23 19:19	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/10/23 13:21	11/12/23 19:19	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/10/23 13:21	11/12/23 19:19	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	90		70 - 130			11/10/23 13:21	11/12/23 19:19	1	
o-Terphenyl (Surr)	93		70 - 130			11/10/23 13:21	11/12/23 19:19	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	54.0		5.04	mg/Kg			11/13/23 21:46	1	

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Client Sample ID: C-34, 1'

Lab Sample ID: 880-35571-5

Date Collected: 11/08/23 10:30

Matrix: Solid

Date Received: 11/09/23 08:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/10/23 10:44	11/12/23 10:32	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/10/23 10:44	11/12/23 10:32	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/10/23 10:44	11/12/23 10:32	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		11/10/23 10:44	11/12/23 10:32	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/10/23 10:44	11/12/23 10:32	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/10/23 10:44	11/12/23 10:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			11/10/23 10:44	11/12/23 10:32	1
1,4-Difluorobenzene (Surr)	89		70 - 130			11/10/23 10:44	11/12/23 10:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/12/23 10:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			11/12/23 20:10	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	<49.7	U	49.7	mg/Kg		11/10/23 13:21	11/12/23 20:10	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		11/10/23 13:21	11/12/23 20:10	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		11/10/23 13:21	11/12/23 20:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			11/10/23 13:21	11/12/23 20:10	1
o-Terphenyl (Surr)	80		70 - 130			11/10/23 13:21	11/12/23 20:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.1		4.99	mg/Kg			11/13/23 21:52	1

Client Sample ID: C-35, 1'

Lab Sample ID: 880-35571-6

Date Collected: 11/08/23 10:40

Matrix: Solid

Date Received: 11/09/23 08:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 10:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 10:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 10:58	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		11/10/23 10:44	11/12/23 10:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 10:58	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/10/23 10:44	11/12/23 10:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130			11/10/23 10:44	11/12/23 10:58	1
1,4-Difluorobenzene (Surr)	117		70 - 130			11/10/23 10:44	11/12/23 10:58	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Client Sample ID: C-35, 1'

Lab Sample ID: 880-35571-6

Date Collected: 11/08/23 10:40

Matrix: Solid

Date Received: 11/09/23 08:26

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/12/23 10:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			11/12/23 20:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		11/10/23 13:21	11/12/23 20:35	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		11/10/23 13:21	11/12/23 20:35	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		11/10/23 13:21	11/12/23 20:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			11/10/23 13:21	11/12/23 20:35	1
o-Terphenyl (Surr)	80		70 - 130			11/10/23 13:21	11/12/23 20:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		5.05	mg/Kg			11/13/23 21:57	1

Client Sample ID: C-36, 3'

Lab Sample ID: 880-35571-7

Date Collected: 11/08/23 10:50

Matrix: Solid

Date Received: 11/09/23 08:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 11:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 11:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 11:25	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/10/23 10:44	11/12/23 11:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 11:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/10/23 10:44	11/12/23 11:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			11/10/23 10:44	11/12/23 11:25	1
1,4-Difluorobenzene (Surr)	77		70 - 130			11/10/23 10:44	11/12/23 11:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/12/23 11:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			11/12/23 20:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		11/10/23 13:21	11/12/23 20:59	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		11/10/23 13:21	11/12/23 20:59	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Client Sample ID: C-36, 3'
Date Collected: 11/08/23 10:50
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		11/10/23 13:21	11/12/23 20:59	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	81		70 - 130			11/10/23 13:21	11/12/23 20:59	1	
o-Terphenyl (Surr)	84		70 - 130			11/10/23 13:21	11/12/23 20:59	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	140		4.96	mg/Kg			11/13/23 22:03	1	

Client Sample ID: C-37, 3'
Date Collected: 11/08/23 11:00
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 11:51	1	
Toluene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 11:51	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 11:51	1	
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/10/23 10:44	11/12/23 11:51	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:44	11/12/23 11:51	1	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/10/23 10:44	11/12/23 11:51	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	117		70 - 130			11/10/23 10:44	11/12/23 11:51	1	
1,4-Difluorobenzene (Surr)	75		70 - 130			11/10/23 10:44	11/12/23 11:51	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/12/23 11:51	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.5	U	50.5	mg/Kg			11/12/23 21:24	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		11/10/23 13:21	11/12/23 21:24	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		11/10/23 13:21	11/12/23 21:24	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		11/10/23 13:21	11/12/23 21:24	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	86		70 - 130			11/10/23 13:21	11/12/23 21:24	1	
o-Terphenyl (Surr)	91		70 - 130			11/10/23 13:21	11/12/23 21:24	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	51.3		5.02	mg/Kg			11/14/23 08:29	1	

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Client Sample ID: C-38, 0-3'
Date Collected: 11/08/23 11:10
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-9
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 12:17	1	
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 12:17	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 12:17	1	
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		11/10/23 10:44	11/12/23 12:17	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 12:17	1	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/10/23 10:44	11/12/23 12:17	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			11/10/23 10:44	11/12/23 12:17	1	
1,4-Difluorobenzene (Surr)	92		70 - 130			11/10/23 10:44	11/12/23 12:17	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			11/12/23 12:17	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0	mg/Kg			11/12/23 21:48	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/10/23 13:21	11/12/23 21:48	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/10/23 13:21	11/12/23 21:48	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/10/23 13:21	11/12/23 21:48	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	78		70 - 130			11/10/23 13:21	11/12/23 21:48	1	
o-Terphenyl (Surr)	81		70 - 130			11/10/23 13:21	11/12/23 21:48	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	98.3		5.02	mg/Kg			11/14/23 08:46	1	

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
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	DFBZ1		
		(70-130)	(70-130)		
880-35571-1	C-30, 1'	175 S1+	100		
880-35571-2	C-31, 1'	186 S1+	110		
880-35571-3	C-32, 1'	134 S1+	91		
880-35571-4	C-33, 1'	216 S1+	102		
880-35571-5	C-34, 1'	112	89		
880-35571-6	C-35, 1'	174 S1+	117		
880-35571-7	C-36, 3'	115	77		
880-35571-8	C-37, 3'	117	75		
880-35571-9	C-38, 0-3'	136 S1+	92		
LCS 880-66702/1-A	Lab Control Sample	133 S1+	69 S1-		
LCSD 880-66702/2-A	Lab Control Sample Dup	140 S1+	86		
MB 880-66435/5-A	Method Blank	76	71		
MB 880-66702/5-A	Method Blank	71	87		
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DFBZ = 1,4-Difluorobenzene (Surr)					

Method: 8015B NM - Diesel Range Organics (DRO) (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	1CO1	OTPH1		
		(70-130)	(70-130)		
880-35571-1	C-30, 1'	79	82		
880-35571-2	C-31, 1'	79	81		
880-35571-3	C-32, 1'	90	94		
880-35571-4	C-33, 1'	90	93		
880-35571-5	C-34, 1'	77	80		
880-35571-6	C-35, 1'	77	80		
880-35571-7	C-36, 3'	81	84		
880-35571-8	C-37, 3'	86	91		
880-35571-9	C-38, 0-3'	78	81		
LCS 880-66717/2-A	Lab Control Sample	104	120		
LCSD 880-66717/3-A	Lab Control Sample Dup	99	104		
MB 880-66717/1-A	Method Blank	81	90		
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: 880-35571-1
SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66435/5-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 66703						Prep Batch: 66435		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/07/23 15:55	11/11/23 18:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/07/23 15:55	11/11/23 18:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/07/23 15:55	11/11/23 18:17	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/07/23 15:55	11/11/23 18:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/07/23 15:55	11/11/23 18:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/07/23 15:55	11/11/23 18:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130			11/07/23 15:55	11/11/23 18:17	1
1,4-Difluorobenzene (Surr)	71		70 - 130			11/07/23 15:55	11/11/23 18:17	1

Lab Sample ID: MB 880-66702/5-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 66703						Prep Batch: 66702		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 07:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 07:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 07:54	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/10/23 10:44	11/12/23 07:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:44	11/12/23 07:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/10/23 10:44	11/12/23 07:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130			11/10/23 10:44	11/12/23 07:54	1
1,4-Difluorobenzene (Surr)	87		70 - 130			11/10/23 10:44	11/12/23 07:54	1

Lab Sample ID: LCS 880-66702/1-A						Client Sample ID: Lab Control Sample		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 66703						Prep Batch: 66702		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	0.100	0.1175		mg/Kg		117	70 - 130	
Toluene	0.100	0.1283		mg/Kg		128	70 - 130	
Ethylbenzene	0.100	0.1206		mg/Kg		121	70 - 130	
m,p-Xylenes	0.200	0.2357		mg/Kg		118	70 - 130	
o-Xylene	0.100	0.1294		mg/Kg		129	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130					
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130					

Lab Sample ID: LCSD 880-66702/2-A						Client Sample ID: Lab Control Sample Dup		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 66703						Prep Batch: 66702		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Benzene	0.100	0.1201		mg/Kg		120	70 - 130	2 35

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-66702/2-A
Matrix: Solid
Analysis Batch: 66703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66702

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1082		mg/Kg		108	70 - 130	17	35
Ethylbenzene	0.100	0.1139		mg/Kg		114	70 - 130	6	35
m,p-Xylenes	0.200	0.2232		mg/Kg		112	70 - 130	5	35
o-Xylene	0.100	0.1147		mg/Kg		115	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-66717/1-A
Matrix: Solid
Analysis Batch: 66782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66717

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/10/23 13:21	11/12/23 08:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/10/23 13:21	11/12/23 08:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/10/23 13:21	11/12/23 08:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130	11/10/23 13:21	11/12/23 08:51	1
o-Terphenyl (Surr)	90		70 - 130	11/10/23 13:21	11/12/23 08:51	1

Lab Sample ID: LCS 880-66717/2-A
Matrix: Solid
Analysis Batch: 66782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	970.4		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1045		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	120		70 - 130

Lab Sample ID: LCSD 880-66717/3-A
Matrix: Solid
Analysis Batch: 66782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66717

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	988.9		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1020		mg/Kg		102	70 - 130	2	20

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-66717/3-A

Matrix: Solid

Analysis Batch: 66782

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66717

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	104		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66790/1-A

Matrix: Solid

Analysis Batch: 66926

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			11/13/23 19:30		1

Lab Sample ID: LCS 880-66790/2-A

Matrix: Solid

Analysis Batch: 66926

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	255.3		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-66790/3-A

Matrix: Solid

Analysis Batch: 66926

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	256.6		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-35571-1 MS

Matrix: Solid

Analysis Batch: 66926

Client Sample ID: C-30, 1'

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	53.5		251	304.0		mg/Kg		100	90 - 110	

Lab Sample ID: 880-35571-1 MSD

Matrix: Solid

Analysis Batch: 66926

Client Sample ID: C-30, 1'

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	53.5		251	303.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-66791/1-A

Matrix: Solid

Analysis Batch: 66928

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			11/14/23 08:12		1

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

GC VOA

Prep Batch: 66435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-66435/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 66702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35571-1	C-30, 1'	Total/NA	Solid	5035	
880-35571-2	C-31, 1'	Total/NA	Solid	5035	
880-35571-3	C-32, 1'	Total/NA	Solid	5035	
880-35571-4	C-33, 1'	Total/NA	Solid	5035	
880-35571-5	C-34, 1'	Total/NA	Solid	5035	
880-35571-6	C-35, 1'	Total/NA	Solid	5035	
880-35571-7	C-36, 3'	Total/NA	Solid	5035	
880-35571-8	C-37, 3'	Total/NA	Solid	5035	
880-35571-9	C-38, 0-3'	Total/NA	Solid	5035	
MB 880-66702/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66702/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66702/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 66703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35571-1	C-30, 1'	Total/NA	Solid	8021B	66702
880-35571-2	C-31, 1'	Total/NA	Solid	8021B	66702
880-35571-3	C-32, 1'	Total/NA	Solid	8021B	66702
880-35571-4	C-33, 1'	Total/NA	Solid	8021B	66702
880-35571-5	C-34, 1'	Total/NA	Solid	8021B	66702
880-35571-6	C-35, 1'	Total/NA	Solid	8021B	66702
880-35571-7	C-36, 3'	Total/NA	Solid	8021B	66702
880-35571-8	C-37, 3'	Total/NA	Solid	8021B	66702
880-35571-9	C-38, 0-3'	Total/NA	Solid	8021B	66702
MB 880-66435/5-A	Method Blank	Total/NA	Solid	8021B	66435
MB 880-66702/5-A	Method Blank	Total/NA	Solid	8021B	66702
LCS 880-66702/1-A	Lab Control Sample	Total/NA	Solid	8021B	66702
LCSD 880-66702/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66702

Analysis Batch: 66853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35571-1	C-30, 1'	Total/NA	Solid	Total BTEX	
880-35571-2	C-31, 1'	Total/NA	Solid	Total BTEX	
880-35571-3	C-32, 1'	Total/NA	Solid	Total BTEX	
880-35571-4	C-33, 1'	Total/NA	Solid	Total BTEX	
880-35571-5	C-34, 1'	Total/NA	Solid	Total BTEX	
880-35571-6	C-35, 1'	Total/NA	Solid	Total BTEX	
880-35571-7	C-36, 3'	Total/NA	Solid	Total BTEX	
880-35571-8	C-37, 3'	Total/NA	Solid	Total BTEX	
880-35571-9	C-38, 0-3'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 66717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35571-1	C-30, 1'	Total/NA	Solid	8015NM Prep	
880-35571-2	C-31, 1'	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

GC Semi VOA (Continued)

Prep Batch: 66717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35571-3	C-32, 1'	Total/NA	Solid	8015NM Prep	
880-35571-4	C-33, 1'	Total/NA	Solid	8015NM Prep	
880-35571-5	C-34, 1'	Total/NA	Solid	8015NM Prep	
880-35571-6	C-35, 1'	Total/NA	Solid	8015NM Prep	
880-35571-7	C-36, 3'	Total/NA	Solid	8015NM Prep	
880-35571-8	C-37, 3'	Total/NA	Solid	8015NM Prep	
880-35571-9	C-38, 0-3'	Total/NA	Solid	8015NM Prep	
MB 880-66717/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66717/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66717/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35571-1	C-30, 1'	Total/NA	Solid	8015B NM	66717
880-35571-2	C-31, 1'	Total/NA	Solid	8015B NM	66717
880-35571-3	C-32, 1'	Total/NA	Solid	8015B NM	66717
880-35571-4	C-33, 1'	Total/NA	Solid	8015B NM	66717
880-35571-5	C-34, 1'	Total/NA	Solid	8015B NM	66717
880-35571-6	C-35, 1'	Total/NA	Solid	8015B NM	66717
880-35571-7	C-36, 3'	Total/NA	Solid	8015B NM	66717
880-35571-8	C-37, 3'	Total/NA	Solid	8015B NM	66717
880-35571-9	C-38, 0-3'	Total/NA	Solid	8015B NM	66717
MB 880-66717/1-A	Method Blank	Total/NA	Solid	8015B NM	66717
LCS 880-66717/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66717
LCSD 880-66717/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66717

Analysis Batch: 66893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35571-1	C-30, 1'	Total/NA	Solid	8015 NM	
880-35571-2	C-31, 1'	Total/NA	Solid	8015 NM	
880-35571-3	C-32, 1'	Total/NA	Solid	8015 NM	
880-35571-4	C-33, 1'	Total/NA	Solid	8015 NM	
880-35571-5	C-34, 1'	Total/NA	Solid	8015 NM	
880-35571-6	C-35, 1'	Total/NA	Solid	8015 NM	
880-35571-7	C-36, 3'	Total/NA	Solid	8015 NM	
880-35571-8	C-37, 3'	Total/NA	Solid	8015 NM	
880-35571-9	C-38, 0-3'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35571-1	C-30, 1'	Soluble	Solid	DI Leach	
880-35571-2	C-31, 1'	Soluble	Solid	DI Leach	
880-35571-3	C-32, 1'	Soluble	Solid	DI Leach	
880-35571-4	C-33, 1'	Soluble	Solid	DI Leach	
880-35571-5	C-34, 1'	Soluble	Solid	DI Leach	
880-35571-6	C-35, 1'	Soluble	Solid	DI Leach	
880-35571-7	C-36, 3'	Soluble	Solid	DI Leach	
MB 880-66790/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66790/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

HPLC/IC (Continued)

Leach Batch: 66790 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-66790/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-35571-1 MS	C-30, 1'	Soluble	Solid	DI Leach	
880-35571-1 MSD	C-30, 1'	Soluble	Solid	DI Leach	

Leach Batch: 66791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35571-8	C-37, 3'	Soluble	Solid	DI Leach	
880-35571-9	C-38, 0-3'	Soluble	Solid	DI Leach	
MB 880-66791/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66791/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66791/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-35571-8 MS	C-37, 3'	Soluble	Solid	DI Leach	
880-35571-8 MSD	C-37, 3'	Soluble	Solid	DI Leach	

Analysis Batch: 66926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35571-1	C-30, 1'	Soluble	Solid	300.0	66790
880-35571-2	C-31, 1'	Soluble	Solid	300.0	66790
880-35571-3	C-32, 1'	Soluble	Solid	300.0	66790
880-35571-4	C-33, 1'	Soluble	Solid	300.0	66790
880-35571-5	C-34, 1'	Soluble	Solid	300.0	66790
880-35571-6	C-35, 1'	Soluble	Solid	300.0	66790
880-35571-7	C-36, 3'	Soluble	Solid	300.0	66790
MB 880-66790/1-A	Method Blank	Soluble	Solid	300.0	66790
LCS 880-66790/2-A	Lab Control Sample	Soluble	Solid	300.0	66790
LCSD 880-66790/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66790
880-35571-1 MS	C-30, 1'	Soluble	Solid	300.0	66790
880-35571-1 MSD	C-30, 1'	Soluble	Solid	300.0	66790

Analysis Batch: 66928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35571-8	C-37, 3'	Soluble	Solid	300.0	66791
880-35571-9	C-38, 0-3'	Soluble	Solid	300.0	66791
MB 880-66791/1-A	Method Blank	Soluble	Solid	300.0	66791
LCS 880-66791/2-A	Lab Control Sample	Soluble	Solid	300.0	66791
LCSD 880-66791/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66791
880-35571-8 MS	C-37, 3'	Soluble	Solid	300.0	66791
880-35571-8 MSD	C-37, 3'	Soluble	Solid	300.0	66791

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Client Sample ID: C-30, 1'
Date Collected: 11/08/23 10:00
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-1
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	66702	11/10/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66703	11/12/23 08:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66853	11/12/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			66893	11/12/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 18:04	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	66790	11/13/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			66926	11/13/23 21:06	CH	EET MID

Client Sample ID: C-31, 1'
Date Collected: 11/08/23 10:05
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	66702	11/10/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66703	11/12/23 09:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66853	11/12/23 09:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			66893	11/12/23 18:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 18:30	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66790	11/13/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			66926	11/13/23 21:23	CH	EET MID

Client Sample ID: C-32, 1'
Date Collected: 11/08/23 10:10
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66702	11/10/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66703	11/12/23 09:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66853	11/12/23 09:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			66893	11/12/23 18:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 18:54	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	66790	11/13/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			66926	11/13/23 21:29	CH	EET MID

Client Sample ID: C-33, 1'
Date Collected: 11/08/23 10:20
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	66702	11/10/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66703	11/12/23 10:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66853	11/12/23 10:06	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Client Sample ID: C-33, 1'
Date Collected: 11/08/23 10:20
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-4
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			66893	11/12/23 19:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 19:19	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66790	11/13/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			66926	11/13/23 21:46	CH	EET MID

Client Sample ID: C-34, 1'
Date Collected: 11/08/23 10:30
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	66702	11/10/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66703	11/12/23 10:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66853	11/12/23 10:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			66893	11/12/23 20:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 20:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	66790	11/13/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			66926	11/13/23 21:52	CH	EET MID

Client Sample ID: C-35, 1'
Date Collected: 11/08/23 10:40
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	66702	11/10/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66703	11/12/23 10:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66853	11/12/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			66893	11/12/23 20:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 20:35	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66790	11/13/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			66926	11/13/23 21:57	CH	EET MID

Client Sample ID: C-36, 3'
Date Collected: 11/08/23 10:50
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	66702	11/10/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66703	11/12/23 11:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66853	11/12/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			66893	11/12/23 20:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 20:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Client Sample ID: C-36, 3'
Date Collected: 11/08/23 10:50
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	66790	11/13/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			66926	11/13/23 22:03	CH	EET MID

Client Sample ID: C-37, 3'
Date Collected: 11/08/23 11:00
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	66702	11/10/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66703	11/12/23 11:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66853	11/12/23 11:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			66893	11/12/23 21:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 21:24	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	66791	11/13/23 08:05	CH	EET MID
Soluble	Analysis	300.0		1			66928	11/14/23 08:29	CH	EET MID

Client Sample ID: C-38, 0-3'
Date Collected: 11/08/23 11:10
Date Received: 11/09/23 08:26

Lab Sample ID: 880-35571-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66702	11/10/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66703	11/12/23 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66853	11/12/23 12:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			66893	11/12/23 21:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 21:48	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	66791	11/13/23 08:05	CH	EET MID
Soluble	Analysis	300.0		1			66928	11/14/23 08:46	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: 880-35571-1
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	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
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	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-35571-1
SDG: 22-0105-14

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35571-1	C-30, 1'	Solid	11/08/23 10:00	11/09/23 08:26
880-35571-2	C-31, 1'	Solid	11/08/23 10:05	11/09/23 08:26
880-35571-3	C-32, 1'	Solid	11/08/23 10:10	11/09/23 08:26
880-35571-4	C-33, 1'	Solid	11/08/23 10:20	11/09/23 08:26
880-35571-5	C-34, 1'	Solid	11/08/23 10:30	11/09/23 08:26
880-35571-6	C-35, 1'	Solid	11/08/23 10:40	11/09/23 08:26
880-35571-7	C-36, 3'	Solid	11/08/23 10:50	11/09/23 08:26
880-35571-8	C-37, 3'	Solid	11/08/23 11:00	11/09/23 08:26
880-35571-9	C-38, 0-3'	Solid	11/08/23 11:10	11/09/23 08:26

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

35571 No. 3184
CHAIN-OF-CUSTODY

 Carson & Associates, Inc. Environmental Consultants Data Reported to <u>Robert Nelson</u>		507 N. Marienfeld, Ste. 202 Midland, TX 79701 432-687-0901		DATE <u>11-8-23</u> PAGE <u>1</u> OF <u>1</u> PO# _____ LAB WORK ORDER# _____ PROJECT LOCATION OR NAME <u>Sahd Dunes Pad 34</u> LAI PROJECT # <u>22-0105-14</u> COLLECTOR: <u>KG</u>						
TRRP report? ☐ Yes ☒ No	TIME ZONE <u>mst/NM</u>	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	# of Containers	Matrix	PRESERVATION HCl _____ HNO ₃ _____ H ₂ SO ₄ _____ NaOH _____ UNPRESERVED _____		ANALYSES TPH 418 ☒ TPH 1005 ☒ TPH 1006 ☒ BTEX AMBE ☒ GASOLINE MOD 8015 ☒ DIESEL MOD 8015 ☒ OIL MOD 8015 ☒ VOC 8260 ☒ SVOC 8270 ☒ 8081 PESTICIDES ☒ 8082 PESTICIDES ☒ TGP - METALS (RCRA) ☒ TGP - PEST ☒ TOTAL METALS (RCRA) ☒ LEAD - TOTAL ☒ RCI ☒ TDS ☒ PH ☒ CHLORIDES ☒ FLUORIDES ☒ CYANIDE ☒ CHROMIUM ☒ PEROXIDES ☒ ALKALINITY ☒	FIELD NOTES <u>102</u>	
C-30	1			1	S					
C-31	1			1						
C-32	1			1						
C-33	1			1						
C-34	1			1						
C-35	1			1						
C-36	3			1						
C-37	3			1						
C-38	3			1						
 880-35571 Chain of Custody										
TOTAL										
RELINQUISHED BY (Signature) <u>[Signature]</u>		DATE/TIME <u>8:26</u>		RECEIVED BY (Signature) <u>[Signature]</u>		DATE/TIME <u>11/9/23</u>		LABORATORY USE ONLY: RECEIVING TEMP <u>-6.2</u> THERM# <u>-6.0</u> CUSTODY SEALS - ☐ BROKEN ☒ CONTACT ☐ NOT USED ☐ CARRIER BILL # _____ ☒ HAND DELIVERED		
RELINQUISHED BY (Signature) <u>[Signature]</u>		DATE/TIME _____		RECEIVED BY (Signature) _____		DATE/TIME _____		TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐		
RELINQUISHED BY (Signature) _____		DATE/TIME _____		RECEIVED BY (Signature) _____		DATE/TIME _____		CARRIER BILL # _____		
LABORATORY <u>[Signature]</u>		DATE/TIME _____		RECEIVED BY (Signature) _____		DATE/TIME _____		CARRIER BILL # _____		

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-35571-1

SDG Number: 22-0105-14

Login Number: 35571

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 2/13/2024 8:49:51 AM

JOB DESCRIPTION

Sand Dunes Pad 34
22-0105-06

JOB NUMBER

880-38637-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

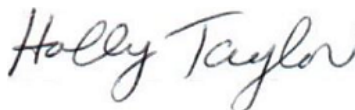
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/13/2024 8:49:51 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: 880-38637-1
SDG: 22-0105-06

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	25
QC Sample Results	27
QC Association Summary	34
Lab Chronicle	40
Certification Summary	48
Method Summary	49
Sample Summary	50
Chain of Custody	51
Receipt Checklists	54

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Sand Dunes Pad 34

Job ID: 880-38637-1

Job ID: 880-38637-1

Eurofins Midland

Job Narrative 880-38637-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/30/2024 9:05 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 -10.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: C-13, 2' (880-38637-1), C-14, 2' (880-38637-2), C-15, 2' (880-38637-3), C-8, 4.1' (880-38637-4), C-9, 4.1' (880-38637-5), C-10, 4.1' (880-38637-6), C-11, 4.1' (880-38637-7), C-12, 4.1' (880-38637-8), C-16, 4.1' (880-38637-9), C-22, 4.1' (880-38637-10), C-23, 4.1' (880-38637-11), C-24, 4.1' (880-38637-12), C-25, 4.1' (880-38637-13), C-17, 4.1' (880-38637-14), C-18, 4.1' (880-38637-15), C-19, 4.1' (880-38637-16), C-20, 4.1' (880-38637-17), C-21, 4.1' (880-38637-18), C-1, 4.1' (880-38637-19), C-29, 0-4.1' (880-38637-20), BF-1 (880-38637-21), BF-2 (880-38637-22), BF-3 (880-38637-23) and BF-4 (880-38637-24).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-14, 2' (880-38637-2), C-15, 2' (880-38637-3), C-8, 4.1' (880-38637-4), C-9, 4.1' (880-38637-5), C-11, 4.1' (880-38637-7), C-12, 4.1' (880-38637-8), C-22, 4.1' (880-38637-10), C-24, 4.1' (880-38637-12), C-25, 4.1' (880-38637-13), C-18, 4.1' (880-38637-15), C-20, 4.1' (880-38637-17), C-1, 4.1' (880-38637-19), C-29, 0-4.1' (880-38637-20), BF-1 (880-38637-21), BF-2 (880-38637-22), BF-3 (880-38637-23), (LCS 880-72507/1-A) and (LCSD 880-72507/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-72503 and analytical batch 880-72703 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-72507 and analytical batch 880-72703 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 870-17683 and analytical batch 870-17660 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 870-17683 and analytical batch 870-17660 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 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-13, 2' (880-38637-1), C-14, 2' (880-38637-2), C-15, 2' (880-38637-3), C-8, 4.1' (880-38637-4), C-9, 4.1' (880-38637-5), C-10, 4.1' (880-38637-6), C-11, 4.1' (880-38637-7), C-12, 4.1' (880-38637-8), C-16, 4.1' (880-38637-9), C-22, 4.1' (880-38637-10), C-23, 4.1' (880-38637-11), C-24, 4.1' (880-38637-12), C-25, 4.1' (880-38637-13), C-17, 4.1' (880-38637-14), C-18, 4.1' (880-38637-15), C-19, 4.1' (880-38637-16), C-20,

Eurofins Midland

Case Narrative

Client: Larson & Associates, Inc.
Project: Sand Dunes Pad 34

Job ID: 880-38637-1

Job ID: 880-38637-1 (Continued)

Eurofins Midland

4.1 (880-38637-17), C-21, 4.1 (880-38637-18), C-1, 4.1 (880-38637-19), C-29, 0-4.1 (880-38637-20), (880-38637-A-1-F MS) and (880-38637-A-1-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 870-17905 and analytical batch 870-17969 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO).

Method 8015MOD_NM: An incorrect volume of spiking solution was inadvertently added the following samples: (CCV 870-17969/164) and (CCV 870-17969/165). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside the upper control limit: BF-1 (880-38637-21), BF-4 (880-38637-24) and (890-6038-A-1-J). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-13, 2'

Date Collected: 01/29/24 09:45

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 07:40	1
Toluene	<0.00198	U F2	0.00198	mg/Kg		02/06/24 13:36	02/10/24 07:40	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 07:40	1
m,p-Xylenes	<0.00396	U F1	0.00396	mg/Kg		02/06/24 13:36	02/10/24 07:40	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 07:40	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/06/24 13:36	02/10/24 07:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	02/06/24 13:36	02/10/24 07:40	1
1,4-Difluorobenzene (Surr)	114		70 - 130	02/06/24 13:36	02/10/24 07:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/10/24 07:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			02/02/24 23:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.1	U *1 F1 F2	50.1	mg/Kg		01/30/24 11:08	02/02/24 23:39	1
Diesel Range Organics (Over C10-C28)	<50.1	U F1 F2	50.1	mg/Kg		01/30/24 11:08	02/02/24 23:39	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/30/24 11:08	02/02/24 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	63	S1-	70 - 130	01/30/24 11:08	02/02/24 23:39	1
1-Chlorooctane	57	S1-	70 - 130	01/30/24 11:08	02/02/24 23:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	498		5.04	mg/Kg			02/04/24 01:02	1

Client Sample ID: C-14, 2'

Date Collected: 01/29/24 09:50

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 08:06	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 08:06	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 08:06	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		02/06/24 13:36	02/10/24 08:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 08:06	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/06/24 13:36	02/10/24 08:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	02/06/24 13:36	02/10/24 08:06	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/06/24 13:36	02/10/24 08:06	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-14, 2'

Date Collected: 01/29/24 09:50

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/10/24 08:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			02/03/24 00:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.5	U *1	50.5	mg/Kg		01/30/24 11:08	02/03/24 00:42	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/30/24 11:08	02/03/24 00:42	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/30/24 11:08	02/03/24 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	60	S1-	70 - 130	01/30/24 11:08	02/03/24 00:42	1
1-Chlorooctane	55	S1-	70 - 130	01/30/24 11:08	02/03/24 00:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	632		4.97	mg/Kg			02/04/24 01:08	1

Client Sample ID: C-15, 2'

Date Collected: 01/29/24 09:52

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 08:33	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 08:33	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 08:33	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		02/06/24 13:36	02/10/24 08:33	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 08:33	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/06/24 13:36	02/10/24 08:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	02/06/24 13:36	02/10/24 08:33	1
1,4-Difluorobenzene (Surr)	87		70 - 130	02/06/24 13:36	02/10/24 08:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/10/24 08:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/03/24 01:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U *1	50.0	mg/Kg		01/30/24 11:08	02/03/24 01:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/30/24 11:08	02/03/24 01:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/30/24 11:08	02/03/24 01:03	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-15, 2'

Date Collected: 01/29/24 09:52

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-3

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	48	S1-	70 - 130	01/30/24 11:08	02/03/24 01:03	1
1-Chlorooctane	46	S1-	70 - 130	01/30/24 11:08	02/03/24 01:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	773		4.98	mg/Kg			02/04/24 01:15	1

Client Sample ID: C-8, 4.1'

Date Collected: 01/29/24 10:30

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-4

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 08:59	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 08:59	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 08:59	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		02/06/24 13:36	02/10/24 08:59	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 08:59	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/06/24 13:36	02/10/24 08:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130			02/06/24 13:36	02/10/24 08:59	1
1,4-Difluorobenzene (Surr)	72		70 - 130			02/06/24 13:36	02/10/24 08:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/10/24 08:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/03/24 01:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U *1	49.9	mg/Kg		01/30/24 11:08	02/03/24 01:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/30/24 11:08	02/03/24 01:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/30/24 11:08	02/03/24 01:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	75		70 - 130			01/30/24 11:08	02/03/24 01:23	1
1-Chlorooctane	68	S1-	70 - 130			01/30/24 11:08	02/03/24 01:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		4.99	mg/Kg			02/04/24 01:22	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-9, 4.1'

Lab Sample ID: 880-38637-5

Date Collected: 01/29/24 10:32

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 09:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 09:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 09:26	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		02/06/24 13:36	02/10/24 09:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 09:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/06/24 13:36	02/10/24 09:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	02/06/24 13:36	02/10/24 09:26	1
1,4-Difluorobenzene (Surr)	78		70 - 130	02/06/24 13:36	02/10/24 09:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/10/24 09:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			02/03/24 01:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.7	U *1	49.7	mg/Kg		01/30/24 11:08	02/03/24 01:44	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/30/24 11:08	02/03/24 01:44	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/30/24 11:08	02/03/24 01:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	60	S1-	70 - 130			01/30/24 11:08	02/03/24 01:44	1
1-Chlorooctane	55	S1-	70 - 130			01/30/24 11:08	02/03/24 01:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	276		5.05	mg/Kg			02/04/24 01:29	1

Client Sample ID: C-10, 4.1'

Lab Sample ID: 880-38637-6

Date Collected: 01/29/24 10:34

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:36	02/10/24 09:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:36	02/10/24 09:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:36	02/10/24 09:52	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/06/24 13:36	02/10/24 09:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:36	02/10/24 09:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/06/24 13:36	02/10/24 09:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	02/06/24 13:36	02/10/24 09:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/06/24 13:36	02/10/24 09:52	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-10, 4.1'

Lab Sample ID: 880-38637-6

Date Collected: 01/29/24 10:34

Matrix: Solid

Date Received: 01/30/24 09:05

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/10/24 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/03/24 02:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U *1	50.0	mg/Kg		01/30/24 11:08	02/03/24 02:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/30/24 11:08	02/03/24 02:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/30/24 11:08	02/03/24 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	48	S1-	70 - 130	01/30/24 11:08	02/03/24 02:05	1
1-Chlorooctane	44	S1-	70 - 130	01/30/24 11:08	02/03/24 02:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	485		5.00	mg/Kg			02/04/24 01:49	1

Client Sample ID: C-11, 4.1'

Lab Sample ID: 880-38637-7

Date Collected: 01/29/24 10:36

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 10:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 10:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 10:19	1
m,p-Xylenes	<0.00397	U	0.00397	mg/Kg		02/06/24 13:36	02/10/24 10:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 10:19	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/06/24 13:36	02/10/24 10:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	02/06/24 13:36	02/10/24 10:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/06/24 13:36	02/10/24 10:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			02/10/24 10:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			02/03/24 02:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.6	U *1	49.6	mg/Kg		01/30/24 11:08	02/03/24 02:26	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		01/30/24 11:08	02/03/24 02:26	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		01/30/24 11:08	02/03/24 02:26	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-11, 4.1'

Date Collected: 01/29/24 10:36

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-7

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	41	S1-	70 - 130	01/30/24 11:08	02/03/24 02:26	1
1-Chlorooctane	41	S1-	70 - 130	01/30/24 11:08	02/03/24 02:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		4.96	mg/Kg			02/04/24 01:56	1

Client Sample ID: C-12, 4.1'

Date Collected: 01/29/24 10:38

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-8

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 10:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 10:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 10:45	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/06/24 13:36	02/10/24 10:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 10:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/06/24 13:36	02/10/24 10:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			02/06/24 13:36	02/10/24 10:45	1
1,4-Difluorobenzene (Surr)	89		70 - 130			02/06/24 13:36	02/10/24 10:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/10/24 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			02/03/24 02:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.2	U *1	50.2	mg/Kg		01/30/24 11:08	02/03/24 02:47	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		01/30/24 11:08	02/03/24 02:47	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		01/30/24 11:08	02/03/24 02:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	39	S1-	70 - 130			01/30/24 11:08	02/03/24 02:47	1
1-Chlorooctane	37	S1-	70 - 130			01/30/24 11:08	02/03/24 02:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	547		5.03	mg/Kg			02/04/24 02:16	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-16, 4.1

Lab Sample ID: 880-38637-9

Date Collected: 01/29/24 10:48

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 11:12	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 11:12	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 11:12	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		02/06/24 13:36	02/10/24 11:12	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 11:12	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/06/24 13:36	02/10/24 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	02/06/24 13:36	02/10/24 11:12	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/06/24 13:36	02/10/24 11:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/10/24 11:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			02/03/24 03:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.3	U *1	50.3	mg/Kg		01/30/24 11:08	02/03/24 03:07	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		01/30/24 11:08	02/03/24 03:07	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		01/30/24 11:08	02/03/24 03:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	59	S1-	70 - 130			01/30/24 11:08	02/03/24 03:07	1
1-Chlorooctane	53	S1-	70 - 130			01/30/24 11:08	02/03/24 03:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		5.02	mg/Kg			02/04/24 02:23	1

Client Sample ID: C-22, 4.1

Lab Sample ID: 880-38637-10

Date Collected: 01/29/24 10:50

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 11:37	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 11:37	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 11:37	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		02/06/24 13:36	02/10/24 11:37	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 11:37	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/06/24 13:36	02/10/24 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	02/06/24 13:36	02/10/24 11:37	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/06/24 13:36	02/10/24 11:37	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-22, 4.1

Lab Sample ID: 880-38637-10

Date Collected: 01/29/24 10:50

Matrix: Solid

Date Received: 01/30/24 09:05

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/10/24 11:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			02/03/24 03:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.4	U *1	50.4	mg/Kg		01/30/24 11:08	02/03/24 03:28	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		01/30/24 11:08	02/03/24 03:28	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/30/24 11:08	02/03/24 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	57	S1-	70 - 130	01/30/24 11:08	02/03/24 03:28	1
1-Chlorooctane	53	S1-	70 - 130	01/30/24 11:08	02/03/24 03:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	644		4.99	mg/Kg			02/04/24 02:30	1

Client Sample ID: C-23, 4.1

Lab Sample ID: 880-38637-11

Date Collected: 01/29/24 10:52

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 13:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 13:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 13:19	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		02/06/24 13:36	02/10/24 13:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 13:19	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/06/24 13:36	02/10/24 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	02/06/24 13:36	02/10/24 13:19	1
1,4-Difluorobenzene (Surr)	108		70 - 130	02/06/24 13:36	02/10/24 13:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/10/24 13:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/03/24 04:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U *1	49.8	mg/Kg		01/30/24 11:08	02/03/24 04:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/30/24 11:08	02/03/24 04:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/30/24 11:08	02/03/24 04:10	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-23, 4.1

Date Collected: 01/29/24 10:52

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-11

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	32	S1-	70 - 130	01/30/24 11:08	02/03/24 04:10	1
1-Chlorooctane	31	S1-	70 - 130	01/30/24 11:08	02/03/24 04:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	460		4.98	mg/Kg			02/04/24 02:37	1

Client Sample ID: C-24, 4.1

Date Collected: 01/29/24 10:54

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-12

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 13:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 13:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 13:45	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/06/24 13:36	02/10/24 13:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 13:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/06/24 13:36	02/10/24 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130			02/06/24 13:36	02/10/24 13:45	1
1,4-Difluorobenzene (Surr)	81		70 - 130			02/06/24 13:36	02/10/24 13:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			02/10/24 13:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/03/24 04:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U *1	49.8	mg/Kg		01/30/24 11:08	02/03/24 04:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/30/24 11:08	02/03/24 04:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/30/24 11:08	02/03/24 04:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	40	S1-	70 - 130			01/30/24 11:08	02/03/24 04:31	1
1-Chlorooctane	37	S1-	70 - 130			01/30/24 11:08	02/03/24 04:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		4.98	mg/Kg			02/04/24 02:44	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-25, 4.1

Lab Sample ID: 880-38637-13

Date Collected: 01/29/24 10:56

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:36	02/10/24 14:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:36	02/10/24 14:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:36	02/10/24 14:10	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/06/24 13:36	02/10/24 14:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:36	02/10/24 14:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/06/24 13:36	02/10/24 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130	02/06/24 13:36	02/10/24 14:10	1
1,4-Difluorobenzene (Surr)	110		70 - 130	02/06/24 13:36	02/10/24 14:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/10/24 14:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/03/24 04:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U *1	49.8	mg/Kg		01/30/24 11:08	02/03/24 04:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/30/24 11:08	02/03/24 04:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/30/24 11:08	02/03/24 04:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	32	S1-	70 - 130			01/30/24 11:08	02/03/24 04:52	1
1-Chlorooctane	31	S1-	70 - 130			01/30/24 11:08	02/03/24 04:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		4.96	mg/Kg			02/04/24 02:50	1

Client Sample ID: C-17, 4.1

Lab Sample ID: 880-38637-14

Date Collected: 01/29/24 11:30

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 14:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 14:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 14:36	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		02/06/24 13:36	02/10/24 14:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 14:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/06/24 13:36	02/10/24 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	02/06/24 13:36	02/10/24 14:36	1
1,4-Difluorobenzene (Surr)	87		70 - 130	02/06/24 13:36	02/10/24 14:36	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-17, 4.1

Lab Sample ID: 880-38637-14

Date Collected: 01/29/24 11:30

Matrix: Solid

Date Received: 01/30/24 09:05

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/10/24 14:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			02/03/24 05:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.6	U *1	49.6	mg/Kg		01/30/24 11:08	02/03/24 05:12	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		01/30/24 11:08	02/03/24 05:12	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		01/30/24 11:08	02/03/24 05:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	21	S1-	70 - 130	01/30/24 11:08	02/03/24 05:12	1
1-Chlorooctane	21	S1-	70 - 130	01/30/24 11:08	02/03/24 05:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	375		5.04	mg/Kg			02/04/24 02:57	1

Client Sample ID: C-18, 4.1

Lab Sample ID: 880-38637-15

Date Collected: 01/29/24 11:32

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 15:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 15:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 15:01	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/06/24 13:36	02/10/24 15:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 15:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/06/24 13:36	02/10/24 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	172	S1+	70 - 130	02/06/24 13:36	02/10/24 15:01	1
1,4-Difluorobenzene (Surr)	114		70 - 130	02/06/24 13:36	02/10/24 15:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/10/24 15:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			02/03/24 05:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.4	U *1	50.4	mg/Kg		01/30/24 11:08	02/03/24 05:33	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		01/30/24 11:08	02/03/24 05:33	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/30/24 11:08	02/03/24 05:33	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-18, 4.1

Date Collected: 01/29/24 11:32

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-15

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	27	S1-	70 - 130	01/30/24 11:08	02/03/24 05:33	1
1-Chlorooctane	28	S1-	70 - 130	01/30/24 11:08	02/03/24 05:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		4.99	mg/Kg			02/04/24 19:33	1

Client Sample ID: C-19, 4.1

Date Collected: 01/29/24 11:34

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-16

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:36	02/10/24 15:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:36	02/10/24 15:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:36	02/10/24 15:27	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/06/24 13:36	02/10/24 15:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:36	02/10/24 15:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/06/24 13:36	02/10/24 15:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			02/06/24 13:36	02/10/24 15:27	1
1,4-Difluorobenzene (Surr)	87		70 - 130			02/06/24 13:36	02/10/24 15:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/10/24 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			02/03/24 05:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.3	U *1	50.3	mg/Kg		01/30/24 11:08	02/03/24 05:54	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		01/30/24 11:08	02/03/24 05:54	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		01/30/24 11:08	02/03/24 05:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62	S1-	70 - 130			01/30/24 11:08	02/03/24 05:54	1
1-Chlorooctane	57	S1-	70 - 130			01/30/24 11:08	02/03/24 05:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	490		5.05	mg/Kg			02/04/24 19:54	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-20, 4.1

Lab Sample ID: 880-38637-17

Date Collected: 01/29/24 11:36

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 15:52	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 15:52	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 15:52	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		02/06/24 13:36	02/10/24 15:52	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:36	02/10/24 15:52	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/06/24 13:36	02/10/24 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130	02/06/24 13:36	02/10/24 15:52	1
1,4-Difluorobenzene (Surr)	80		70 - 130	02/06/24 13:36	02/10/24 15:52	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			02/10/24 15:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			02/03/24 06:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.5	U *1	50.5	mg/Kg		01/30/24 11:08	02/03/24 06:15	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/30/24 11:08	02/03/24 06:15	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/30/24 11:08	02/03/24 06:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	49	S1-	70 - 130			01/30/24 11:08	02/03/24 06:15	1
1-Chlorooctane	47	S1-	70 - 130			01/30/24 11:08	02/03/24 06:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	301		5.04	mg/Kg			02/04/24 20:00	1

Client Sample ID: C-21, 4.1

Lab Sample ID: 880-38637-18

Date Collected: 01/29/24 11:38

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 16:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 16:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 16:17	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		02/06/24 13:36	02/10/24 16:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:36	02/10/24 16:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/06/24 13:36	02/10/24 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	02/06/24 13:36	02/10/24 16:17	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/06/24 13:36	02/10/24 16:17	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-21, 4.1

Lab Sample ID: 880-38637-18

Date Collected: 01/29/24 11:38

Matrix: Solid

Date Received: 01/30/24 09:05

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/10/24 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			02/03/24 06:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.7	U *1	49.7	mg/Kg		01/30/24 11:08	02/03/24 06:35	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/30/24 11:08	02/03/24 06:35	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/30/24 11:08	02/03/24 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	57	S1-	70 - 130	01/30/24 11:08	02/03/24 06:35	1
1-Chlorooctane	52	S1-	70 - 130	01/30/24 11:08	02/03/24 06:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		4.97	mg/Kg			02/04/24 20:07	1

Client Sample ID: C-1, 4.1

Lab Sample ID: 880-38637-19

Date Collected: 01/29/24 11:46

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 16:43	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 16:43	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 16:43	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		02/06/24 13:36	02/10/24 16:43	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:36	02/10/24 16:43	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/06/24 13:36	02/10/24 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	02/06/24 13:36	02/10/24 16:43	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/06/24 13:36	02/10/24 16:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/10/24 16:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/03/24 06:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U *1	50.0	mg/Kg		01/30/24 11:08	02/03/24 06:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/30/24 11:08	02/03/24 06:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/30/24 11:08	02/03/24 06:56	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-1, 4.1

Date Collected: 01/29/24 11:46

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-19

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	29	S1-	70 - 130	01/30/24 11:08	02/03/24 06:56	1
1-Chlorooctane	27	S1-	70 - 130	01/30/24 11:08	02/03/24 06:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		4.99	mg/Kg			02/04/24 20:14	1

Client Sample ID: C-29, 0-4.1

Date Collected: 01/29/24 12:05

Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-20

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 17:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 17:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 17:08	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		02/06/24 13:36	02/10/24 17:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 17:08	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/06/24 13:36	02/10/24 17:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130			02/06/24 13:36	02/10/24 17:08	1
1,4-Difluorobenzene (Surr)	106		70 - 130			02/06/24 13:36	02/10/24 17:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/10/24 17:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	123		49.5	mg/Kg			02/03/24 09:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.5	U *1	49.5	mg/Kg		01/30/24 11:08	02/03/24 09:21	1
Diesel Range Organics (Over C10-C28)	123		49.5	mg/Kg		01/30/24 11:08	02/03/24 09:21	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		01/30/24 11:08	02/03/24 09:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	0	S1-	70 - 130			01/30/24 11:08	02/03/24 09:21	1
1-Chlorooctane	105		70 - 130			01/30/24 11:08	02/03/24 09:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.4		5.03	mg/Kg			02/04/24 20:34	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: BF-1

Lab Sample ID: 880-38637-21

Date Collected: 01/29/24 12:46

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1 F2	0.00198	mg/Kg		02/06/24 13:59	02/10/24 21:23	1
Toluene	<0.00198	U F1 F2	0.00198	mg/Kg		02/06/24 13:59	02/10/24 21:23	1
Ethylbenzene	<0.00198	U F1 F2	0.00198	mg/Kg		02/06/24 13:59	02/10/24 21:23	1
m,p-Xylenes	<0.00396	U F2	0.00396	mg/Kg		02/06/24 13:59	02/10/24 21:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/06/24 13:59	02/10/24 21:23	1
Xylenes, Total	<0.00396	U F2	0.00396	mg/Kg		02/06/24 13:59	02/10/24 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	02/06/24 13:59	02/10/24 21:23	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/06/24 13:59	02/10/24 21:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/10/24 21:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/05/24 20:34	1

Method: 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 *1	49.8	mg/Kg		01/30/24 11:32	02/05/24 20:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/30/24 11:32	02/05/24 20:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/30/24 11:32	02/05/24 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	133	S1+	70 - 130	01/30/24 11:32	02/05/24 20:34	1
o-Terphenyl (Surr)	142	S1+	70 - 130	01/30/24 11:32	02/05/24 20:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.2		5.02	mg/Kg			02/04/24 20:41	1

Client Sample ID: BF-2

Lab Sample ID: 880-38637-22

Date Collected: 01/29/24 12:48

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:59	02/10/24 21:49	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:59	02/10/24 21:49	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:59	02/10/24 21:49	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		02/06/24 13:59	02/10/24 21:49	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/06/24 13:59	02/10/24 21:49	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/06/24 13:59	02/10/24 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	211	S1+	70 - 130	02/06/24 13:59	02/10/24 21:49	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/06/24 13:59	02/10/24 21:49	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: BF-2

Lab Sample ID: 880-38637-22

Date Collected: 01/29/24 12:48

Matrix: Solid

Date Received: 01/30/24 09:05

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/10/24 21:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/05/24 20:54	1

Method: 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 *1	49.8	mg/Kg		01/30/24 11:32	02/05/24 20:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/30/24 11:32	02/05/24 20:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/30/24 11:32	02/05/24 20:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122		70 - 130			01/30/24 11:32	02/05/24 20:54	1
o-Terphenyl (Surr)	128		70 - 130			01/30/24 11:32	02/05/24 20:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.3		4.99	mg/Kg			02/04/24 20:48	1

Client Sample ID: BF-3

Lab Sample ID: 880-38637-23

Date Collected: 01/29/24 12:50

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:59	02/10/24 22:16	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:59	02/10/24 22:16	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:59	02/10/24 22:16	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		02/06/24 13:59	02/10/24 22:16	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/06/24 13:59	02/10/24 22:16	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/06/24 13:59	02/10/24 22:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130			02/06/24 13:59	02/10/24 22:16	1
1,4-Difluorobenzene (Surr)	118		70 - 130			02/06/24 13:59	02/10/24 22:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/10/24 22:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			02/05/24 21:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	49.6	mg/Kg		01/30/24 11:32	02/05/24 21:15	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		01/30/24 11:32	02/05/24 21:15	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: BF-3

Lab Sample ID: 880-38637-23

Date Collected: 01/29/24 12:50

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		01/30/24 11:32	02/05/24 21:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130			01/30/24 11:32	02/05/24 21:15	1
o-Terphenyl (Surr)	122		70 - 130			01/30/24 11:32	02/05/24 21:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.5		4.95	mg/Kg			02/04/24 20:55	1

Client Sample ID: BF-4

Lab Sample ID: 880-38637-24

Date Collected: 01/29/24 12:52

Matrix: Solid

Date Received: 01/30/24 09:05

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:59	02/10/24 22:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:59	02/10/24 22:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:59	02/10/24 22:41	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		02/06/24 13:59	02/10/24 22:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/06/24 13:59	02/10/24 22:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/06/24 13:59	02/10/24 22:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			02/06/24 13:59	02/10/24 22:41	1
1,4-Difluorobenzene (Surr)	81		70 - 130			02/06/24 13:59	02/10/24 22:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/10/24 22:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			02/05/24 21:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *1	50.3	mg/Kg		01/30/24 11:32	02/05/24 21:35	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		01/30/24 11:32	02/05/24 21:35	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		01/30/24 11:32	02/05/24 21:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	126		70 - 130			01/30/24 11:32	02/05/24 21:35	1
o-Terphenyl (Surr)	137	S1+	70 - 130			01/30/24 11:32	02/05/24 21:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.9		4.96	mg/Kg			02/04/24 21:01	1

Eurofins Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-38637-1	C-13, 2'	111	114
880-38637-1 MS	C-13, 2'	117	99
880-38637-1 MSD	C-13, 2'	122	87
880-38637-2	C-14, 2'	143 S1+	101
880-38637-3	C-15, 2'	147 S1+	87
880-38637-4	C-8, 4.1'	148 S1+	72
880-38637-5	C-9, 4.1'	134 S1+	78
880-38637-6	C-10, 4.1'	84	100
880-38637-7	C-11, 4.1'	131 S1+	97
880-38637-8	C-12, 4.1'	138 S1+	89
880-38637-9	C-16, 4.1	130	100
880-38637-10	C-22, 4.1	150 S1+	101
880-38637-11	C-23, 4.1	116	108
880-38637-12	C-24, 4.1	143 S1+	81
880-38637-13	C-25, 4.1	158 S1+	110
880-38637-14	C-17, 4.1	128	87
880-38637-15	C-18, 4.1	172 S1+	114
880-38637-16	C-19, 4.1	128	87
880-38637-17	C-20, 4.1	153 S1+	80
880-38637-18	C-21, 4.1	112	97
880-38637-19	C-1, 4.1	145 S1+	99
880-38637-20	C-29, 0-4.1	153 S1+	106
880-38637-21	BF-1	146 S1+	92
880-38637-21 MS	BF-1	116	79
880-38637-21 MSD	BF-1	132 S1+	77
880-38637-22	BF-2	211 S1+	104
880-38637-23	BF-3	162 S1+	118
880-38637-24	BF-4	104	81
LCS 880-72503/1-A	Lab Control Sample	123	71
LCS 880-72507/1-A	Lab Control Sample	136 S1+	71
LCSD 880-72503/2-A	Lab Control Sample Dup	97	122
LCSD 880-72507/2-A	Lab Control Sample Dup	113	70
MB 880-72503/5-A	Method Blank	87	101
MB 880-72507/5-A	Method Blank	76	79
MB 880-72665/5-A	Method Blank	79	78

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH1	1CO1
		(70-130)	(70-130)
880-38637-1	C-13, 2'	63 S1-	57 S1-
880-38637-1 MS	C-13, 2'	39 S1-	41 S1-
880-38637-1 MSD	C-13, 2'	54 S1-	57 S1-
880-38637-2	C-14, 2'	60 S1-	55 S1-

Eurofins Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

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	OTPH1 (70-130)	1CO1 (70-130)
880-38637-3	C-15, 2'	48 S1-	46 S1-
880-38637-4	C-8, 4.1'	75	68 S1-
880-38637-5	C-9, 4.1'	60 S1-	55 S1-
880-38637-6	C-10, 4.1'	48 S1-	44 S1-
880-38637-7	C-11, 4.1'	41 S1-	41 S1-
880-38637-8	C-12, 4.1'	39 S1-	37 S1-
880-38637-9	C-16, 4.1	59 S1-	53 S1-
880-38637-10	C-22, 4.1	57 S1-	53 S1-
880-38637-11	C-23, 4.1	32 S1-	31 S1-
880-38637-12	C-24, 4.1	40 S1-	37 S1-
880-38637-13	C-25, 4.1	32 S1-	31 S1-
880-38637-14	C-17, 4.1	21 S1-	21 S1-
880-38637-15	C-18, 4.1	27 S1-	28 S1-
880-38637-16	C-19, 4.1	62 S1-	57 S1-
880-38637-17	C-20, 4.1	49 S1-	47 S1-
880-38637-18	C-21, 4.1	57 S1-	52 S1-
880-38637-19	C-1, 4.1	29 S1-	27 S1-
880-38637-20	C-29, 0-4.1	0 S1-	105
880-38637-21	BF-1	142 S1+	133 S1+
880-38637-22	BF-2	128	122
880-38637-23	BF-3	122	115
880-38637-24	BF-4	137 S1+	126
LCS 870-17683/1-A	Lab Control Sample	87	92
LCS 870-17905/1-A	Lab Control Sample	125	108
LCSD 870-17683/2-A	Lab Control Sample Dup	80	84
LCSD 870-17905/2-A	Lab Control Sample Dup	126	112
MB 870-17683/3-A	Method Blank	88	85
MB 870-17905/3-A	Method Blank	128	122

Surrogate Legend

OTPH = o-Terphenyl

1CO = 1-Chlorooctane

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-72503/5-A

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72503

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 07:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 07:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 07:13	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/06/24 13:36	02/10/24 07:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:36	02/10/24 07:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/06/24 13:36	02/10/24 07:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	02/06/24 13:36	02/10/24 07:13	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/06/24 13:36	02/10/24 07:13	1

Lab Sample ID: LCS 880-72503/1-A

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72503

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08011		mg/Kg		80	70 - 130
Toluene	0.100	0.09418		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.1028		mg/Kg		103	70 - 130
m,p-Xylenes	0.200	0.2213		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1088		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	71		70 - 130

Lab Sample ID: LCSD 880-72503/2-A

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72503

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08842		mg/Kg		88	70 - 130	10	35
Toluene	0.100	0.07534		mg/Kg		75	70 - 130	22	35
Ethylbenzene	0.100	0.08567		mg/Kg		86	70 - 130	18	35
m,p-Xylenes	0.200	0.1845		mg/Kg		92	70 - 130	18	35
o-Xylene	0.100	0.08639		mg/Kg		86	70 - 130	23	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

Lab Sample ID: 880-38637-1 MS

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: C-13, 2'

Prep Type: Total/NA

Prep Batch: 72503

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0996	0.08962		mg/Kg		90	70 - 130
Toluene	<0.00198	U F2	0.0996	0.07478		mg/Kg		75	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-38637-1 MS

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: C-13, 2'

Prep Type: Total/NA

Prep Batch: 72503

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0996	0.09430		mg/Kg		95	70 - 130
m,p-Xylenes	<0.00396	U F1	0.199	0.2118		mg/Kg		106	70 - 130
o-Xylene	<0.00198	U	0.0996	0.1056		mg/Kg		106	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-38637-1 MSD

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: C-13, 2'

Prep Type: Total/NA

Prep Batch: 72503

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.1216		mg/Kg		121	70 - 130	30	35
Toluene	<0.00198	U F2	0.100	0.1077	F2	mg/Kg		107	70 - 130	36	35
Ethylbenzene	<0.00198	U	0.100	0.1220		mg/Kg		122	70 - 130	26	35
m,p-Xylenes	<0.00396	U F1	0.200	0.2639	F1	mg/Kg		132	70 - 130	22	35
o-Xylene	<0.00198	U	0.100	0.1138		mg/Kg		114	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-72507/5-A

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72507

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:59	02/10/24 20:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:59	02/10/24 20:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:59	02/10/24 20:56	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/06/24 13:59	02/10/24 20:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/24 13:59	02/10/24 20:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/06/24 13:59	02/10/24 20:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	02/06/24 13:59	02/10/24 20:56	1
1,4-Difluorobenzene (Surr)	79		70 - 130	02/06/24 13:59	02/10/24 20:56	1

Lab Sample ID: LCS 880-72507/1-A

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09011		mg/Kg		90	70 - 130
Toluene	0.100	0.09772		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1074		mg/Kg		107	70 - 130
m,p-Xylenes	0.200	0.2285		mg/Kg		114	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-72507/1-A

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1146		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	71		70 - 130

Lab Sample ID: LCSD 880-72507/2-A

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72507

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08819		mg/Kg		88	70 - 130	2	35
Toluene	0.100	0.09322		mg/Kg		93	70 - 130	5	35
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130	4	35
m,p-Xylenes	0.200	0.2234		mg/Kg		112	70 - 130	2	35
o-Xylene	0.100	0.1081		mg/Kg		108	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	70		70 - 130

Lab Sample ID: 880-38637-21 MS

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: BF-1

Prep Type: Total/NA

Prep Batch: 72507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U F1 F2	0.0996	0.05207	F1	mg/Kg		52	70 - 130
Toluene	<0.00198	U F1 F2	0.0996	0.05824	F1	mg/Kg		58	70 - 130
Ethylbenzene	<0.00198	U F1 F2	0.0996	0.05345	F1	mg/Kg		54	70 - 130
m,p-Xylenes	<0.00396	U F2	0.199	0.1441		mg/Kg		72	70 - 130
o-Xylene	<0.00198	U	0.0996	0.07139		mg/Kg		72	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 880-38637-21 MSD

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: BF-1

Prep Type: Total/NA

Prep Batch: 72507

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00198	U F1 F2	0.100	0.09433	F2	mg/Kg		94	70 - 130	58	35
Toluene	<0.00198	U F1 F2	0.100	0.09265	F2	mg/Kg		92	70 - 130	46	35
Ethylbenzene	<0.00198	U F1 F2	0.100	0.08383	F2	mg/Kg		84	70 - 130	44	35
m,p-Xylenes	<0.00396	U F2	0.200	0.2170	F2	mg/Kg		108	70 - 130	40	35
o-Xylene	<0.00198	U	0.100	0.1010		mg/Kg		101	70 - 130	34	35

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-38637-21 MSD

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: BF-1

Prep Type: Total/NA

Prep Batch: 72507

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: MB 880-72665/5-A

Matrix: Solid

Analysis Batch: 72703

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72665

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/08/24 13:39	02/09/24 17:31	1	
Toluene	<0.00200	U	0.00200	mg/Kg		02/08/24 13:39	02/09/24 17:31	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/08/24 13:39	02/09/24 17:31	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/08/24 13:39	02/09/24 17:31	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/08/24 13:39	02/09/24 17:31	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/08/24 13:39	02/09/24 17:31	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	79		70 - 130			02/08/24 13:39	02/09/24 17:31	1	
1,4-Difluorobenzene (Surr)	78		70 - 130			02/08/24 13:39	02/09/24 17:31	1	

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 870-17683/3-A

Matrix: Solid

Analysis Batch: 17660

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17683

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0	mg/Kg		01/30/24 11:08	02/02/24 23:18	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/30/24 11:08	02/02/24 23:18	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/30/24 11:08	02/02/24 23:18	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
1-Chlorooctane	85		70 - 130			01/30/24 11:08	02/02/24 23:18	1	
o-Terphenyl	88		70 - 130			01/30/24 11:08	02/02/24 23:18	1	

Lab Sample ID: LCS 870-17683/1-A

Matrix: Solid

Analysis Batch: 17660

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17683

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	
Gasoline Range Organics (GRO)	1020	744.2		mg/Kg		73		70 - 130	
Diesel Range Organics (Over C10-C28)	1010	849.6		mg/Kg		84		70 - 130	
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	92		70 - 130						
o-Terphenyl	87		70 - 130						

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 870-17683/2-A

Matrix: Solid

Analysis Batch: 17660

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17683

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	1020	983.0	*1	mg/Kg		96	70 - 130	28	20
Diesel Range Organics (Over C10-C28)	1010	750.9		mg/Kg		74	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: 880-38637-1 MS

Matrix: Solid

Analysis Batch: 17660

Client Sample ID: C-13, 2'

Prep Type: Total/NA

Prep Batch: 17683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	<50.1	U *1 F1	1030	387.9	F1	mg/Kg		38	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U F1 F2	1020	376.5	F1	mg/Kg		34	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	41	S1-	70 - 130
o-Terphenyl	39	S1-	70 - 130

Lab Sample ID: 880-38637-1 MSD

Matrix: Solid

Analysis Batch: 17660

Client Sample ID: C-13, 2'

Prep Type: Total/NA

Prep Batch: 17683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	<50.1	U *1 F1	1030	484.8	F1 F2	mg/Kg		47	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1 F2	1020	542.0	F1 F2	mg/Kg		50	70 - 130	36	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	57	S1-	70 - 130
o-Terphenyl	54	S1-	70 - 130

Lab Sample ID: MB 870-17905/3-A

Matrix: Solid

Analysis Batch: 17969

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17905

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/30/24 11:32	02/05/24 15:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/30/24 11:32	02/05/24 15:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/30/24 11:32	02/05/24 15:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122		70 - 130	01/30/24 11:32	02/05/24 15:43	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 870-17905/3-A

Matrix: Solid

Analysis Batch: 17969

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17905

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl (Surr)	128		70 - 130	01/30/24 11:32	02/05/24 15:43	1			

Lab Sample ID: LCS 870-17905/1-A

Matrix: Solid

Analysis Batch: 17969

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1020	1174		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)	1010	1217		mg/Kg		120	70 - 130		
Surrogate	%Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	108		70 - 130						
o-Terphenyl (Surr)	125		70 - 130						

Lab Sample ID: LCSD 870-17905/2-A

Matrix: Solid

Analysis Batch: 17969

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17905

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1020	906.0	*1	mg/Kg		89	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	1010	1213		mg/Kg		120	70 - 130	0	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	112		70 - 130						
o-Terphenyl (Surr)	126		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71969/1-A

Matrix: Solid

Analysis Batch: 72254

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/03/24 23:33	1

Lab Sample ID: LCS 880-71969/2-A

Matrix: Solid

Analysis Batch: 72254

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	254.7		mg/Kg		102	90 - 110		

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-71969/3-A

Matrix: Solid

Analysis Batch: 72254

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	0	20

Lab Sample ID: 880-38637-5 MS

Matrix: Solid

Analysis Batch: 72254

Client Sample ID: C-9, 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	276		253	510.8		mg/Kg		93	90 - 110		

Lab Sample ID: 880-38637-5 MSD

Matrix: Solid

Analysis Batch: 72254

Client Sample ID: C-9, 4.1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	276		253	509.3		mg/Kg		92	90 - 110	0	20

Lab Sample ID: MB 880-71974/1-A

Matrix: Solid

Analysis Batch: 72282

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/04/24 19:13	1

Lab Sample ID: LCS 880-71974/2-A

Matrix: Solid

Analysis Batch: 72282

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	256.9		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-71974/3-A

Matrix: Solid

Analysis Batch: 72282

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	255.3		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-38637-15 MS

Matrix: Solid

Analysis Batch: 72282

Client Sample ID: C-18, 4.1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	125		250	378.8		mg/Kg		102	90 - 110		

Lab Sample ID: 880-38637-15 MSD

Matrix: Solid

Analysis Batch: 72282

Client Sample ID: C-18, 4.1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	125		250	375.9		mg/Kg		101	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

GC VOA

Prep Batch: 72503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-1	C-13, 2'	Total/NA	Solid	5035	
880-38637-2	C-14, 2'	Total/NA	Solid	5035	
880-38637-3	C-15, 2'	Total/NA	Solid	5035	
880-38637-4	C-8, 4.1'	Total/NA	Solid	5035	
880-38637-5	C-9, 4.1'	Total/NA	Solid	5035	
880-38637-6	C-10, 4.1'	Total/NA	Solid	5035	
880-38637-7	C-11, 4.1'	Total/NA	Solid	5035	
880-38637-8	C-12, 4.1'	Total/NA	Solid	5035	
880-38637-9	C-16, 4.1	Total/NA	Solid	5035	
880-38637-10	C-22, 4.1	Total/NA	Solid	5035	
880-38637-11	C-23, 4.1	Total/NA	Solid	5035	
880-38637-12	C-24, 4.1	Total/NA	Solid	5035	
880-38637-13	C-25, 4.1	Total/NA	Solid	5035	
880-38637-14	C-17, 4.1	Total/NA	Solid	5035	
880-38637-15	C-18, 4.1	Total/NA	Solid	5035	
880-38637-16	C-19, 4.1	Total/NA	Solid	5035	
880-38637-17	C-20, 4.1	Total/NA	Solid	5035	
880-38637-18	C-21, 4.1	Total/NA	Solid	5035	
880-38637-19	C-1, 4.1	Total/NA	Solid	5035	
880-38637-20	C-29, 0-4.1	Total/NA	Solid	5035	
MB 880-72503/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72503/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72503/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38637-1 MS	C-13, 2'	Total/NA	Solid	5035	
880-38637-1 MSD	C-13, 2'	Total/NA	Solid	5035	

Prep Batch: 72507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-21	BF-1	Total/NA	Solid	5035	
880-38637-22	BF-2	Total/NA	Solid	5035	
880-38637-23	BF-3	Total/NA	Solid	5035	
880-38637-24	BF-4	Total/NA	Solid	5035	
MB 880-72507/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72507/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72507/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38637-21 MS	BF-1	Total/NA	Solid	5035	
880-38637-21 MSD	BF-1	Total/NA	Solid	5035	

Prep Batch: 72665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-72665/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 72703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-1	C-13, 2'	Total/NA	Solid	8021B	72503
880-38637-2	C-14, 2'	Total/NA	Solid	8021B	72503
880-38637-3	C-15, 2'	Total/NA	Solid	8021B	72503
880-38637-4	C-8, 4.1'	Total/NA	Solid	8021B	72503
880-38637-5	C-9, 4.1'	Total/NA	Solid	8021B	72503
880-38637-6	C-10, 4.1'	Total/NA	Solid	8021B	72503
880-38637-7	C-11, 4.1'	Total/NA	Solid	8021B	72503

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

GC VOA (Continued)

Analysis Batch: 72703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-8	C-12, 4.1'	Total/NA	Solid	8021B	72503
880-38637-9	C-16, 4.1	Total/NA	Solid	8021B	72503
880-38637-10	C-22, 4.1	Total/NA	Solid	8021B	72503
880-38637-11	C-23, 4.1	Total/NA	Solid	8021B	72503
880-38637-12	C-24, 4.1	Total/NA	Solid	8021B	72503
880-38637-13	C-25, 4.1	Total/NA	Solid	8021B	72503
880-38637-14	C-17, 4.1	Total/NA	Solid	8021B	72503
880-38637-15	C-18, 4.1	Total/NA	Solid	8021B	72503
880-38637-16	C-19, 4.1	Total/NA	Solid	8021B	72503
880-38637-17	C-20, 4.1	Total/NA	Solid	8021B	72503
880-38637-18	C-21, 4.1	Total/NA	Solid	8021B	72503
880-38637-19	C-1, 4.1	Total/NA	Solid	8021B	72503
880-38637-20	C-29, 0-4.1	Total/NA	Solid	8021B	72503
880-38637-21	BF-1	Total/NA	Solid	8021B	72507
880-38637-22	BF-2	Total/NA	Solid	8021B	72507
880-38637-23	BF-3	Total/NA	Solid	8021B	72507
880-38637-24	BF-4	Total/NA	Solid	8021B	72507
MB 880-72503/5-A	Method Blank	Total/NA	Solid	8021B	72503
MB 880-72507/5-A	Method Blank	Total/NA	Solid	8021B	72507
MB 880-72665/5-A	Method Blank	Total/NA	Solid	8021B	72665
LCS 880-72503/1-A	Lab Control Sample	Total/NA	Solid	8021B	72503
LCS 880-72507/1-A	Lab Control Sample	Total/NA	Solid	8021B	72507
LCSD 880-72503/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72503
LCSD 880-72507/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72507
880-38637-1 MS	C-13, 2'	Total/NA	Solid	8021B	72503
880-38637-1 MSD	C-13, 2'	Total/NA	Solid	8021B	72503
880-38637-21 MS	BF-1	Total/NA	Solid	8021B	72507
880-38637-21 MSD	BF-1	Total/NA	Solid	8021B	72507

Analysis Batch: 72978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-1	C-13, 2'	Total/NA	Solid	Total BTEX	
880-38637-2	C-14, 2'	Total/NA	Solid	Total BTEX	
880-38637-3	C-15, 2'	Total/NA	Solid	Total BTEX	
880-38637-4	C-8, 4.1'	Total/NA	Solid	Total BTEX	
880-38637-5	C-9, 4.1'	Total/NA	Solid	Total BTEX	
880-38637-6	C-10, 4.1'	Total/NA	Solid	Total BTEX	
880-38637-7	C-11, 4.1'	Total/NA	Solid	Total BTEX	
880-38637-8	C-12, 4.1'	Total/NA	Solid	Total BTEX	
880-38637-9	C-16, 4.1	Total/NA	Solid	Total BTEX	
880-38637-10	C-22, 4.1	Total/NA	Solid	Total BTEX	
880-38637-11	C-23, 4.1	Total/NA	Solid	Total BTEX	
880-38637-12	C-24, 4.1	Total/NA	Solid	Total BTEX	
880-38637-13	C-25, 4.1	Total/NA	Solid	Total BTEX	
880-38637-14	C-17, 4.1	Total/NA	Solid	Total BTEX	
880-38637-15	C-18, 4.1	Total/NA	Solid	Total BTEX	
880-38637-16	C-19, 4.1	Total/NA	Solid	Total BTEX	
880-38637-17	C-20, 4.1	Total/NA	Solid	Total BTEX	
880-38637-18	C-21, 4.1	Total/NA	Solid	Total BTEX	
880-38637-19	C-1, 4.1	Total/NA	Solid	Total BTEX	
880-38637-20	C-29, 0-4.1	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

GC VOA (Continued)

Analysis Batch: 72978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-21	BF-1	Total/NA	Solid	Total BTEX	
880-38637-22	BF-2	Total/NA	Solid	Total BTEX	
880-38637-23	BF-3	Total/NA	Solid	Total BTEX	
880-38637-24	BF-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 17660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-1	C-13, 2'	Total/NA	Solid	8015B NM	17683
880-38637-2	C-14, 2'	Total/NA	Solid	8015B NM	17683
880-38637-3	C-15, 2'	Total/NA	Solid	8015B NM	17683
880-38637-4	C-8, 4.1'	Total/NA	Solid	8015B NM	17683
880-38637-5	C-9, 4.1'	Total/NA	Solid	8015B NM	17683
880-38637-6	C-10, 4.1'	Total/NA	Solid	8015B NM	17683
880-38637-7	C-11, 4.1'	Total/NA	Solid	8015B NM	17683
880-38637-8	C-12, 4.1'	Total/NA	Solid	8015B NM	17683
880-38637-9	C-16, 4.1	Total/NA	Solid	8015B NM	17683
880-38637-10	C-22, 4.1	Total/NA	Solid	8015B NM	17683
880-38637-11	C-23, 4.1	Total/NA	Solid	8015B NM	17683
880-38637-12	C-24, 4.1	Total/NA	Solid	8015B NM	17683
880-38637-13	C-25, 4.1	Total/NA	Solid	8015B NM	17683
880-38637-14	C-17, 4.1	Total/NA	Solid	8015B NM	17683
880-38637-15	C-18, 4.1	Total/NA	Solid	8015B NM	17683
880-38637-16	C-19, 4.1	Total/NA	Solid	8015B NM	17683
880-38637-17	C-20, 4.1	Total/NA	Solid	8015B NM	17683
880-38637-18	C-21, 4.1	Total/NA	Solid	8015B NM	17683
880-38637-19	C-1, 4.1	Total/NA	Solid	8015B NM	17683
880-38637-20	C-29, 0-4.1	Total/NA	Solid	8015B NM	17683
MB 870-17683/3-A	Method Blank	Total/NA	Solid	8015B NM	17683
LCS 870-17683/1-A	Lab Control Sample	Total/NA	Solid	8015B NM	17683
LCSD 870-17683/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17683
880-38637-1 MS	C-13, 2'	Total/NA	Solid	8015B NM	17683
880-38637-1 MSD	C-13, 2'	Total/NA	Solid	8015B NM	17683

Prep Batch: 17683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-1	C-13, 2'	Total/NA	Solid	8015NM Prep	
880-38637-2	C-14, 2'	Total/NA	Solid	8015NM Prep	
880-38637-3	C-15, 2'	Total/NA	Solid	8015NM Prep	
880-38637-4	C-8, 4.1'	Total/NA	Solid	8015NM Prep	
880-38637-5	C-9, 4.1'	Total/NA	Solid	8015NM Prep	
880-38637-6	C-10, 4.1'	Total/NA	Solid	8015NM Prep	
880-38637-7	C-11, 4.1'	Total/NA	Solid	8015NM Prep	
880-38637-8	C-12, 4.1'	Total/NA	Solid	8015NM Prep	
880-38637-9	C-16, 4.1	Total/NA	Solid	8015NM Prep	
880-38637-10	C-22, 4.1	Total/NA	Solid	8015NM Prep	
880-38637-11	C-23, 4.1	Total/NA	Solid	8015NM Prep	
880-38637-12	C-24, 4.1	Total/NA	Solid	8015NM Prep	
880-38637-13	C-25, 4.1	Total/NA	Solid	8015NM Prep	
880-38637-14	C-17, 4.1	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

GC Semi VOA (Continued)

Prep Batch: 17683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-15	C-18, 4.1	Total/NA	Solid	8015NM Prep	
880-38637-16	C-19, 4.1	Total/NA	Solid	8015NM Prep	
880-38637-17	C-20, 4.1	Total/NA	Solid	8015NM Prep	
880-38637-18	C-21, 4.1	Total/NA	Solid	8015NM Prep	
880-38637-19	C-1, 4.1	Total/NA	Solid	8015NM Prep	
880-38637-20	C-29, 0-4.1	Total/NA	Solid	8015NM Prep	
MB 870-17683/3-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 870-17683/1-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 870-17683/2-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38637-1 MS	C-13, 2'	Total/NA	Solid	8015NM Prep	
880-38637-1 MSD	C-13, 2'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-1	C-13, 2'	Total/NA	Solid	8015 NM	
880-38637-2	C-14, 2'	Total/NA	Solid	8015 NM	
880-38637-3	C-15, 2'	Total/NA	Solid	8015 NM	
880-38637-4	C-8, 4.1'	Total/NA	Solid	8015 NM	
880-38637-5	C-9, 4.1'	Total/NA	Solid	8015 NM	
880-38637-6	C-10, 4.1'	Total/NA	Solid	8015 NM	
880-38637-7	C-11, 4.1'	Total/NA	Solid	8015 NM	
880-38637-8	C-12, 4.1'	Total/NA	Solid	8015 NM	
880-38637-9	C-16, 4.1	Total/NA	Solid	8015 NM	
880-38637-10	C-22, 4.1	Total/NA	Solid	8015 NM	
880-38637-11	C-23, 4.1	Total/NA	Solid	8015 NM	
880-38637-12	C-24, 4.1	Total/NA	Solid	8015 NM	
880-38637-13	C-25, 4.1	Total/NA	Solid	8015 NM	
880-38637-14	C-17, 4.1	Total/NA	Solid	8015 NM	
880-38637-15	C-18, 4.1	Total/NA	Solid	8015 NM	
880-38637-16	C-19, 4.1	Total/NA	Solid	8015 NM	
880-38637-17	C-20, 4.1	Total/NA	Solid	8015 NM	
880-38637-18	C-21, 4.1	Total/NA	Solid	8015 NM	
880-38637-19	C-1, 4.1	Total/NA	Solid	8015 NM	
880-38637-20	C-29, 0-4.1	Total/NA	Solid	8015 NM	
880-38637-21	BF-1	Total/NA	Solid	8015 NM	
880-38637-22	BF-2	Total/NA	Solid	8015 NM	
880-38637-23	BF-3	Total/NA	Solid	8015 NM	
880-38637-24	BF-4	Total/NA	Solid	8015 NM	

Prep Batch: 17905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-21	BF-1	Total/NA	Solid	8015NM Prep	
880-38637-22	BF-2	Total/NA	Solid	8015NM Prep	
880-38637-23	BF-3	Total/NA	Solid	8015NM Prep	
880-38637-24	BF-4	Total/NA	Solid	8015NM Prep	
MB 870-17905/3-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 870-17905/1-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 870-17905/2-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: 880-38637-1
SDG: 22-0105-06

GC Semi VOA

Analysis Batch: 17969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-21	BF-1	Total/NA	Solid	8015B NM	17905
880-38637-22	BF-2	Total/NA	Solid	8015B NM	17905
880-38637-23	BF-3	Total/NA	Solid	8015B NM	17905
880-38637-24	BF-4	Total/NA	Solid	8015B NM	17905
MB 870-17905/3-A	Method Blank	Total/NA	Solid	8015B NM	17905
LCS 870-17905/1-A	Lab Control Sample	Total/NA	Solid	8015B NM	17905
LCSD 870-17905/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17905

HPLC/IC

Leach Batch: 71969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-1	C-13, 2'	Soluble	Solid	DI Leach	
880-38637-2	C-14, 2'	Soluble	Solid	DI Leach	
880-38637-3	C-15, 2'	Soluble	Solid	DI Leach	
880-38637-4	C-8, 4.1'	Soluble	Solid	DI Leach	
880-38637-5	C-9, 4.1'	Soluble	Solid	DI Leach	
880-38637-6	C-10, 4.1'	Soluble	Solid	DI Leach	
880-38637-7	C-11, 4.1'	Soluble	Solid	DI Leach	
880-38637-8	C-12, 4.1'	Soluble	Solid	DI Leach	
880-38637-9	C-16, 4.1	Soluble	Solid	DI Leach	
880-38637-10	C-22, 4.1	Soluble	Solid	DI Leach	
880-38637-11	C-23, 4.1	Soluble	Solid	DI Leach	
880-38637-12	C-24, 4.1	Soluble	Solid	DI Leach	
880-38637-13	C-25, 4.1	Soluble	Solid	DI Leach	
880-38637-14	C-17, 4.1	Soluble	Solid	DI Leach	
MB 880-71969/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71969/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71969/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38637-5 MS	C-9, 4.1'	Soluble	Solid	DI Leach	
880-38637-5 MSD	C-9, 4.1'	Soluble	Solid	DI Leach	

Leach Batch: 71974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-15	C-18, 4.1	Soluble	Solid	DI Leach	
880-38637-16	C-19, 4.1	Soluble	Solid	DI Leach	
880-38637-17	C-20, 4.1	Soluble	Solid	DI Leach	
880-38637-18	C-21, 4.1	Soluble	Solid	DI Leach	
880-38637-19	C-1, 4.1	Soluble	Solid	DI Leach	
880-38637-20	C-29, 0-4.1	Soluble	Solid	DI Leach	
880-38637-21	BF-1	Soluble	Solid	DI Leach	
880-38637-22	BF-2	Soluble	Solid	DI Leach	
880-38637-23	BF-3	Soluble	Solid	DI Leach	
880-38637-24	BF-4	Soluble	Solid	DI Leach	
MB 880-71974/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71974/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71974/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38637-15 MS	C-18, 4.1	Soluble	Solid	DI Leach	
880-38637-15 MSD	C-18, 4.1	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

HPLC/IC

Analysis Batch: 72254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-1	C-13, 2'	Soluble	Solid	300.0	71969
880-38637-2	C-14, 2'	Soluble	Solid	300.0	71969
880-38637-3	C-15, 2'	Soluble	Solid	300.0	71969
880-38637-4	C-8, 4.1'	Soluble	Solid	300.0	71969
880-38637-5	C-9, 4.1'	Soluble	Solid	300.0	71969
880-38637-6	C-10, 4.1'	Soluble	Solid	300.0	71969
880-38637-7	C-11, 4.1'	Soluble	Solid	300.0	71969
880-38637-8	C-12, 4.1'	Soluble	Solid	300.0	71969
880-38637-9	C-16, 4.1	Soluble	Solid	300.0	71969
880-38637-10	C-22, 4.1	Soluble	Solid	300.0	71969
880-38637-11	C-23, 4.1	Soluble	Solid	300.0	71969
880-38637-12	C-24, 4.1	Soluble	Solid	300.0	71969
880-38637-13	C-25, 4.1	Soluble	Solid	300.0	71969
880-38637-14	C-17, 4.1	Soluble	Solid	300.0	71969
MB 880-71969/1-A	Method Blank	Soluble	Solid	300.0	71969
LCS 880-71969/2-A	Lab Control Sample	Soluble	Solid	300.0	71969
LCSD 880-71969/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71969
880-38637-5 MS	C-9, 4.1'	Soluble	Solid	300.0	71969
880-38637-5 MSD	C-9, 4.1'	Soluble	Solid	300.0	71969

Analysis Batch: 72282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38637-15	C-18, 4.1	Soluble	Solid	300.0	71974
880-38637-16	C-19, 4.1	Soluble	Solid	300.0	71974
880-38637-17	C-20, 4.1	Soluble	Solid	300.0	71974
880-38637-18	C-21, 4.1	Soluble	Solid	300.0	71974
880-38637-19	C-1, 4.1	Soluble	Solid	300.0	71974
880-38637-20	C-29, 0-4.1	Soluble	Solid	300.0	71974
880-38637-21	BF-1	Soluble	Solid	300.0	71974
880-38637-22	BF-2	Soluble	Solid	300.0	71974
880-38637-23	BF-3	Soluble	Solid	300.0	71974
880-38637-24	BF-4	Soluble	Solid	300.0	71974
MB 880-71974/1-A	Method Blank	Soluble	Solid	300.0	71974
LCS 880-71974/2-A	Lab Control Sample	Soluble	Solid	300.0	71974
LCSD 880-71974/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71974
880-38637-15 MS	C-18, 4.1	Soluble	Solid	300.0	71974
880-38637-15 MSD	C-18, 4.1	Soluble	Solid	300.0	71974

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-13, 2'
Date Collected: 01/29/24 09:45
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-1
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			5.05 g	5 mL	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 07:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 07:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/02/24 23:39	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/02/24 23:39	WP	EET DAL
Soluble	Leach	DI Leach			4.96 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 01:02	CH	EET MID

Client Sample ID: C-14, 2'
Date Collected: 01/29/24 09:50
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 08:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 08:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 00:42	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 00:42	WP	EET DAL
Soluble	Leach	DI Leach			5.03 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 01:08	CH	EET MID

Client Sample ID: C-15, 2'
Date Collected: 01/29/24 09:52
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 08:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 08:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 01:03	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 01:03	WP	EET DAL
Soluble	Leach	DI Leach			5.02 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 01:15	CH	EET MID

Client Sample ID: C-8, 4.1'
Date Collected: 01/29/24 10:30
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 08:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 08:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-8, 4.1'
Date Collected: 01/29/24 10:30
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-4
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			17885	02/03/24 01:23	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 01:23	WP	EET DAL
Soluble	Leach	DI Leach			5.01 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 01:22	CH	EET MID

Client Sample ID: C-9, 4.1'
Date Collected: 01/29/24 10:32
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 09:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 09:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 01:44	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 01:44	WP	EET DAL
Soluble	Leach	DI Leach			4.95 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 01:29	CH	EET MID

Client Sample ID: C-10, 4.1'
Date Collected: 01/29/24 10:34
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 09:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 02:05	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 02:05	WP	EET DAL
Soluble	Leach	DI Leach			5.00 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 01:49	CH	EET MID

Client Sample ID: C-11, 4.1'
Date Collected: 01/29/24 10:36
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 10:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 02:26	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 02:26	WP	EET DAL

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-11, 4.1'
Date Collected: 01/29/24 10:36
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 01:56	CH	EET MID

Client Sample ID: C-12, 4.1'
Date Collected: 01/29/24 10:38
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 10:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 02:47	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 02:47	WP	EET DAL
Soluble	Leach	DI Leach			4.97 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 02:16	CH	EET MID

Client Sample ID: C-16, 4.1
Date Collected: 01/29/24 10:48
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 11:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 03:07	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 03:07	WP	EET DAL
Soluble	Leach	DI Leach			4.98 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 02:23	CH	EET MID

Client Sample ID: C-22, 4.1
Date Collected: 01/29/24 10:50
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 11:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 11:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 03:28	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 03:28	WP	EET DAL
Soluble	Leach	DI Leach			5.01 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 02:30	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-23, 4.1**Lab Sample ID: 880-38637-11****Date Collected: 01/29/24 10:52****Matrix: Solid****Date Received: 01/30/24 09:05**

Prep 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	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 13:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 04:10	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 04:10	WP	EET DAL
Soluble	Leach	DI Leach			5.02 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 02:37	CH	EET MID

Client Sample ID: C-24, 4.1**Lab Sample ID: 880-38637-12****Date Collected: 01/29/24 10:54****Matrix: Solid****Date Received: 01/30/24 09:05**

Prep 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	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 13:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 04:31	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 04:31	WP	EET DAL
Soluble	Leach	DI Leach			5.02 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 02:44	CH	EET MID

Client Sample ID: C-25, 4.1**Lab Sample ID: 880-38637-13****Date Collected: 01/29/24 10:56****Matrix: Solid****Date Received: 01/30/24 09:05**

Prep 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	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 14:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 14:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 04:52	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 04:52	WP	EET DAL
Soluble	Leach	DI Leach			5.04 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 02:50	CH	EET MID

Client Sample ID: C-17, 4.1**Lab Sample ID: 880-38637-14****Date Collected: 01/29/24 11:30****Matrix: Solid****Date Received: 01/30/24 09:05**

Prep 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	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 14:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 14:36	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-17, 4.1

Lab Sample ID: 880-38637-14

Date Collected: 01/29/24 11:30

Matrix: Solid

Date Received: 01/30/24 09:05

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			17885	02/03/24 05:12	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 05:12	WP	EET DAL
Soluble	Leach	DI Leach			4.96 g	50 mL	71969	01/30/24 14:56	SMC	EET MID
Soluble	Analysis	300.0		1			72254	02/04/24 02:57	CH	EET MID

Client Sample ID: C-18, 4.1

Lab Sample ID: 880-38637-15

Date Collected: 01/29/24 11:32

Matrix: Solid

Date Received: 01/30/24 09:05

Prep 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	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 15:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 15:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 05:33	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 05:33	WP	EET DAL
Soluble	Leach	DI Leach			5.01 g	50 mL	71974	01/30/24 15:30	SMC	EET MID
Soluble	Analysis	300.0		1			72282	02/04/24 19:33	CH	EET MID

Client Sample ID: C-19, 4.1

Lab Sample ID: 880-38637-16

Date Collected: 01/29/24 11:34

Matrix: Solid

Date Received: 01/30/24 09:05

Prep 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	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 15:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 05:54	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 05:54	WP	EET DAL
Soluble	Leach	DI Leach			4.95 g	50 mL	71974	01/30/24 15:30	SMC	EET MID
Soluble	Analysis	300.0		1			72282	02/04/24 19:54	CH	EET MID

Client Sample ID: C-20, 4.1

Lab Sample ID: 880-38637-17

Date Collected: 01/29/24 11:36

Matrix: Solid

Date Received: 01/30/24 09:05

Prep 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	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 15:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 06:15	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 06:15	WP	EET DAL

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: C-20, 4.1
Date Collected: 01/29/24 11:36
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	71974	01/30/24 15:30	SMC	EET MID
Soluble	Analysis	300.0		1			72282	02/04/24 20:00	CH	EET MID

Client Sample ID: C-21, 4.1
Date Collected: 01/29/24 11:38
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 16:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 06:35	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 06:35	WP	EET DAL
Soluble	Leach	DI Leach			5.03 g	50 mL	71974	01/30/24 15:30	SMC	EET MID
Soluble	Analysis	300.0		1			72282	02/04/24 20:07	CH	EET MID

Client Sample ID: C-1, 4.1
Date Collected: 01/29/24 11:46
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 16:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 16:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 06:56	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 06:56	WP	EET DAL
Soluble	Leach	DI Leach			5.01 g	50 mL	71974	01/30/24 15:30	SMC	EET MID
Soluble	Analysis	300.0		1			72282	02/04/24 20:14	CH	EET MID

Client Sample ID: C-29, 0-4.1
Date Collected: 01/29/24 12:05
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	72503	02/06/24 13:36	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 17:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/03/24 09:21	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	17683	01/30/24 11:08	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17660	02/03/24 09:21	WP	EET DAL
Soluble	Leach	DI Leach			4.97 g	50 mL	71974	01/30/24 15:30	SMC	EET MID
Soluble	Analysis	300.0		1			72282	02/04/24 20:34	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: BF-1**Lab Sample ID: 880-38637-21****Date Collected: 01/29/24 12:46****Matrix: Solid****Date Received: 01/30/24 09:05**

Prep 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	72507	02/06/24 13:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 21:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 21:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/05/24 20:34	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	17905	01/30/24 11:32	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 20:34	WP	EET DAL
Soluble	Leach	DI Leach			4.98 g	50 mL	71974	01/30/24 15:30	SMC	EET MID
Soluble	Analysis	300.0		1			72282	02/04/24 20:41	CH	EET MID

Client Sample ID: BF-2**Lab Sample ID: 880-38637-22****Date Collected: 01/29/24 12:48****Matrix: Solid****Date Received: 01/30/24 09:05**

Prep 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	72507	02/06/24 13:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 21:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 21:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/05/24 20:54	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	17905	01/30/24 11:32	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 20:54	WP	EET DAL
Soluble	Leach	DI Leach			5.01 g	50 mL	71974	01/30/24 15:30	SMC	EET MID
Soluble	Analysis	300.0		1			72282	02/04/24 20:48	CH	EET MID

Client Sample ID: BF-3**Lab Sample ID: 880-38637-23****Date Collected: 01/29/24 12:50****Matrix: Solid****Date Received: 01/30/24 09:05**

Prep 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	72507	02/06/24 13:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 22:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 22:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			17885	02/05/24 21:15	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	17905	01/30/24 11:32	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 21:15	WP	EET DAL
Soluble	Leach	DI Leach			5.05 g	50 mL	71974	01/30/24 15:30	SMC	EET MID
Soluble	Analysis	300.0		1			72282	02/04/24 20:55	CH	EET MID

Client Sample ID: BF-4**Lab Sample ID: 880-38637-24****Date Collected: 01/29/24 12:52****Matrix: Solid****Date Received: 01/30/24 09:05**

Prep 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	72507	02/06/24 13:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72703	02/10/24 22:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72978	02/10/24 22:41	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

Client Sample ID: BF-4
Date Collected: 01/29/24 12:52
Date Received: 01/30/24 09:05

Lab Sample ID: 880-38637-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17885	02/05/24 21:35	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	17905	01/30/24 11:32	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 21:35	WP	EET DAL
Soluble	Leach	DI Leach			5.04 g	50 mL	71974	01/30/24 15:30	SMC	EET MID
Soluble	Analysis	300.0		1			72282	02/04/24 21:01	CH	EET MID

Laboratory References:

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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: 880-38637-1
SDG: 22-0105-06

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	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Solid	Total BTEX

Laboratory: Eurofins Dallas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704295-23-34	06-30-24

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-38637-1
SDG: 22-0105-06

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 DAL
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET DAL
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET DAL
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300
- 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: 880-38637-1
SDG: 22-0105-06

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38637-1	C-13, 2'	Solid	01/29/24 09:45	01/30/24 09:05
880-38637-2	C-14, 2'	Solid	01/29/24 09:50	01/30/24 09:05
880-38637-3	C-15, 2'	Solid	01/29/24 09:52	01/30/24 09:05
880-38637-4	C-8, 4.1'	Solid	01/29/24 10:30	01/30/24 09:05
880-38637-5	C-9, 4.1'	Solid	01/29/24 10:32	01/30/24 09:05
880-38637-6	C-10, 4.1'	Solid	01/29/24 10:34	01/30/24 09:05
880-38637-7	C-11, 4.1'	Solid	01/29/24 10:36	01/30/24 09:05
880-38637-8	C-12, 4.1'	Solid	01/29/24 10:38	01/30/24 09:05
880-38637-9	C-16, 4.1	Solid	01/29/24 10:48	01/30/24 09:05
880-38637-10	C-22, 4.1	Solid	01/29/24 10:50	01/30/24 09:05
880-38637-11	C-23, 4.1	Solid	01/29/24 10:52	01/30/24 09:05
880-38637-12	C-24, 4.1	Solid	01/29/24 10:54	01/30/24 09:05
880-38637-13	C-25, 4.1	Solid	01/29/24 10:56	01/30/24 09:05
880-38637-14	C-17, 4.1	Solid	01/29/24 11:30	01/30/24 09:05
880-38637-15	C-18, 4.1	Solid	01/29/24 11:32	01/30/24 09:05
880-38637-16	C-19, 4.1	Solid	01/29/24 11:34	01/30/24 09:05
880-38637-17	C-20, 4.1	Solid	01/29/24 11:36	01/30/24 09:05
880-38637-18	C-21, 4.1	Solid	01/29/24 11:38	01/30/24 09:05
880-38637-19	C-1, 4.1	Solid	01/29/24 11:46	01/30/24 09:05
880-38637-20	C-29, 0-4.1	Solid	01/29/24 12:05	01/30/24 09:05
880-38637-21	BF-1	Solid	01/29/24 12:46	01/30/24 09:05
880-38637-22	BF-2	Solid	01/29/24 12:48	01/30/24 09:05
880-38637-23	BF-3	Solid	01/29/24 12:50	01/30/24 09:05
880-38637-24	BF-4	Solid	01/29/24 12:52	01/30/24 09:05

38637 No. 3048
CHAIN-OF-CUSTODY

Carson & Associates, Inc. Environmental Consultants Data Reported to: <u>Mark Hanson / Robert Nelson</u>		507 N. Marienfeld, Ste. 202 Midland, TX 79701 432-687-0901		DATE <u>1/29/2014</u> PAGE <u>1</u> OF <u>2</u>	LAB WORK ORDER# _____ PROJECT LOCATION OR NAME <u>Sand Dunes Pad 3A</u> LAI PROJECT # <u>22-015-01</u> COLLECTOR <u>RA</u>
TRRP report? ☐ Yes ☒ No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	# of Containers	PRESERVATION HCl ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ ICE ☐ UNPRESERVED	ANALYSES TPH 418 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ OIL MOD 8015 ☐ SVOC 8270 ☐ PAH 8270 ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ TCLP - METALS (RCRA) ☐ TCLP - VOC ☐ TCLP - PEST ☐ TCLP - METALS (RCRA) ☐ TCLP - VOC ☐ LEAD TOTAL ☐ RCI TOTAL ☐ TDS ☐ TOX ☐ PH ☐ TSS ☐ % MOISTURE ☐ FLASHPOINT ☐ EXPLOSIVES ☐ CHLORIDES ☐ AMMONIUM ☐ ALKALINITY ☐
TIME ZONE Time zone/State <u>MST/NT</u>	Lab #	Date	Time	Matrix	
Field Sample ID					
C-13, 2'		1/29/14	0945	S	X
C-14, 2'			0950		X
C-15, 2'			0952		X
C-8, 4.1'			1030		X
C-9, 4.1'			1032		X
C-10, 4.1'			1034		X
C-11, 4.1'			1036		X
C-12, 4.1'			1038		X
C-16, 4.1'			1048		X
C-23, 4.1'			1050		X
C-23, 4.1'			1052		X
C-24, 4.1'			1054		X
C-25, 4.1'			1056		X
C-17, 4.1'			1130		X
C-18, 4.1'			1132		X
TOTAL	15				


 880-38637 Chain of Custody

RELINQUISHED BY (Signature) <u>Robert Nelson</u>	DATE/TIME <u>1/30 905</u>	RECEIVED BY (Signature) <u>[Signature]</u>
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
LABORATORY <u>Xenoco</u>		

TURN AROUND TIME
 NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐

LABORATORY USE ONLY:
 RECEIVING TEMP -11-10.8 THERM# 122
 CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____

☒ HAND DELIVERED

38637 No. 3049

CHAIN-OF-CUSTODY

Arson & Associates, Inc. Environmental Consultants 507 N. Marienfeld, Ste. 202 Midland, TX 79701 432-687-0901				DATE <u>1/29/24</u> PAGE <u>2</u> OF <u>2</u> PO# _____ LAB WORK ORDER# _____ PROJECT LOCATION OR NAME <u>Sand Dunes Pad 34</u> LAI PROJECT # <u>A2-0105-08C</u> COLLECTOR <u>AN</u>			
Data Reported to <u>Mark Larson/Robert Nelson</u>				ANALYSES TRPH 418 T ☒ TPH 1005 ☒ TPH 1006 ☒ GASOLINE MOD 8015 ☒ DIESEL - MOD 8015 ☒ OIL - MOD 8015 ☒ VOC 8260 ☒ SVOC 8270 ☒ PAH 8270 ☒ HOLDPAH ☒ TCIP - METALS (RCRA) ☒ 8151 HERBICIDES ☒ TCIP - PEST ☒ HERB ☒ TCIP VOC ☒ LEAD - TOTAL ☒ D W 200 8 ☒ TCIP ☒ RCI ☒ TOX ☒ FLASHPOINT ☒ OTHER LIST ☒ PH ☒ TSS ☒ % MOISTURE ☒ TCIP ☒ EXPLOSIVES ☒ CYANIDE ☒ CHLORIDES ☒ ANIONS ☒ ALKALINITY ☒			
TRRP report? ☐ Yes ☒ No		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		PRESERVATION HCl ☒ HNO ₃ ☒ H ₂ SO ₄ ☒ NaOH ☒ UNPRESERVED ☒	
TIME ZONE Time zone/State		Lab #		Date		Time	
MST/NA							
Field Sample ID							
C-19-4.1		1		1/29/24		1134	
C-20-4.1				1/29/24		1136	
C-21-4.1				1/29/24		1138	
C-1-4.1				1/29/24		1146	
C-29-0-4.1				1/29/24		1205	
BF-1				1/29/24		1246	
BF-2				1/29/24		1248	
BF-3				1/29/24		1250	
BF-4				1/29/24		1252	
TOTAL 9							
RELINQUISHED BY (Signature)		RECEIVED BY (Signature)		DATE/TIME		DATE/TIME	
<u>Robert Nelson</u>		<u>Robert Nelson</u>		1/30		0130	
RELINQUISHED BY (Signature)		RECEIVED BY (Signature)		DATE/TIME		DATE/TIME	
RELINQUISHED BY (Signature)		RECEIVED BY (Signature)		DATE/TIME		DATE/TIME	
LABORATORY		Xenon					

Loc: 880
38637

LABORATORY USE ONLY:

TURN AROUND TIME

NORMAL ☒1 DAY ☐2 DAY ☐OTHER ☐

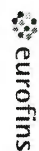
RECEIVING TEMP _____ THERM# _____

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED☐ CARRIER BILL # _____☐ HAND DELIVERED

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environ Monit Assess

Client Information (Sub Contract Lab)			Sampler:	Lab PM:	Carrier/Tracking (if any):	COC No:
Client Contact:			Phone:	E-Mail:	State of Origin:	Page:
Shipping/Receiving				Holly Taylor@et.eurofins.com	New Mexico	Page 1 of 1
Company:			Eurofins Environment Testing South Cent		Job #:	
Address:			9701 Harry Hines Blvd.		880-38637-1	
City:			Dallas		Preservation Codes:	
State Zip:			TX, 75220		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Phone:			214-902-0300(Tel)		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Email:			WQ #:			
Project Name:			Project #:			
Sand Dunes Pad 34			88000254			
Site:			SSOW#:			
Sample Identification - Client ID (Lab ID)			Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)
BF-1 (880-38637-21)			1/29/24	12:46	Central	Solid
BF-2 (880-38637-22)			1/29/24	12:48	Central	Solid
BF-3 (880-38637-23)			1/29/24	12:50	Central	Solid
BF-4 (880-38637-24)			1/29/24	12:52	Central	Solid
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/est/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.						
Possible Hazard Identification						
Unconfirmed						
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2			
Empty Kit Relinquished by:			Date:	Time:	Method of Shipment:	
Relinquished by:			Date/Time:	Company:	Received by:	
Relinquished by:			Date/Time:	Company:	Received by:	
Relinquished by:			Date/Time:	Company:	Received by:	
Custody Seals Intact:			Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	
Δ Yes Δ No						
Special Instructions/Note:						
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months						
Special Instructions/QC Requirements:						
Job #:						
880-38637-1						

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-38637-1
SDG Number: 22-0105-06

Login Number: 38637
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-38637-1

SDG Number: 22-0105-06

Login Number: 38637

List Number: 2

Creator: Thompson, Christopher

List Source: Eurofins Dallas

List Creation: 02/03/24 01:45 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-38637-1

SDG Number: 22-0105-06

Login Number: 38637

List Number: 3

Creator: Phillips, Weston

List Source: Eurofins Dallas

List Creation: 02/05/24 02:12 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



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 2/21/2024 1:43:35 PM

JOB DESCRIPTION

Sand Dunes Pad 34
22-0105-14

JOB NUMBER

880-39591-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



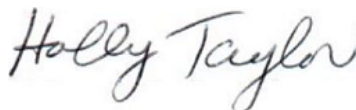
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/21/2024 1:43:35 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: 880-39591-1
SDG: 22-0105-14

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-39591-1
SDG: 22-0105-14

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
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: Sand Dunes Pad 34

Job ID: 880-39591-1

Job ID: 880-39591-1

Eurofins Midland

Job Narrative 880-39591-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 2/19/2024 4:06 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-73291/5-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

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.

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-39591-1
SDG: 22-0105-14

Client Sample ID: C-29 0-4.1

Lab Sample ID: 880-39591-1

Date Collected: 02/19/24 10:25

Matrix: Solid

Date Received: 02/19/24 16:06

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/21/24 08:02	02/21/24 12:08	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/21/24 08:02	02/21/24 12:08	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/21/24 08:02	02/21/24 12:08	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		02/21/24 08:02	02/21/24 12:08	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/21/24 08:02	02/21/24 12:08	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/21/24 08:02	02/21/24 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	02/21/24 08:02	02/21/24 12:08	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/21/24 08:02	02/21/24 12:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/21/24 12:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			02/21/24 13:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.5	U	50.5	mg/Kg		02/20/24 12:53	02/21/24 13:11	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		02/20/24 12:53	02/21/24 13:11	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		02/20/24 12:53	02/21/24 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130	02/20/24 12:53	02/21/24 13:11	1
o-Terphenyl (Surr)	82		70 - 130	02/20/24 12:53	02/21/24 13:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		5.01	mg/Kg			02/20/24 11:37	1

Eurofins Midland

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-39591-1
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	DFBZ1				
		(70-130)	(70-130)				
880-39591-1	C-29 0-4.1	85	96				
LCS 880-73291/1-A	Lab Control Sample	84	111				
LCSD 880-73291/2-A	Lab Control Sample Dup	96	126				
MB 880-73291/5-A	Method Blank	65 S1-	104				
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	OTPH1				
		(70-130)	(70-130)				
880-39591-1	C-29 0-4.1	78	82				
LCS 880-73682/2-A	Lab Control Sample	94	111				
LCSD 880-73682/3-A	Lab Control Sample Dup	83	96				
MB 880-73682/1-A - RA2	Method Blank	103	117				
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: 880-39591-1
SDG: 22-0105-14

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73291/5-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 73714					Prep Batch: 73291				
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		02/15/24 16:02	02/21/24 11:26	1	
Toluene	<0.00200	U	0.00200	mg/Kg		02/15/24 16:02	02/21/24 11:26	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/15/24 16:02	02/21/24 11:26	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/15/24 16:02	02/21/24 11:26	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/15/24 16:02	02/21/24 11:26	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/15/24 16:02	02/21/24 11:26	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130			02/15/24 16:02	02/21/24 11:26	1	
1,4-Difluorobenzene (Surr)	104		70 - 130			02/15/24 16:02	02/21/24 11:26	1	

Lab Sample ID: LCS 880-73291/1-A					Client Sample ID: Lab Control Sample						
Matrix: Solid					Prep Type: Total/NA						
Analysis Batch: 73714					Prep Batch: 73291						
				Spike	LCS	LCS			%Rec		
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene				0.100	0.1074		mg/Kg		107	70 - 130	
Toluene				0.100	0.09619		mg/Kg		96	70 - 130	
Ethylbenzene				0.100	0.09181		mg/Kg		92	70 - 130	
m,p-Xylenes				0.200	0.1852		mg/Kg		93	70 - 130	
o-Xylene				0.100	0.08961		mg/Kg		90	70 - 130	
				LCS	LCS						
Surrogate				%Recovery	Qualifier		Limits				
4-Bromofluorobenzene (Surr)				84			70 - 130				
1,4-Difluorobenzene (Surr)				111			70 - 130				

Lab Sample ID: LCSD 880-73291/2-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Solid					Prep Type: Total/NA						
Analysis Batch: 73714					Prep Batch: 73291						
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD			
							Limits	RPD	Limit		
Benzene	0.100	0.1044		mg/Kg		104	70 - 130	3	35		
Toluene	0.100	0.09432		mg/Kg		94	70 - 130	2	35		
Ethylbenzene	0.100	0.09506		mg/Kg		95	70 - 130	3	35		
m,p-Xylenes	0.200	0.1942		mg/Kg		97	70 - 130	5	35		
o-Xylene	0.100	0.09309		mg/Kg		93	70 - 130	4	35		
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	96		70 - 130								
1,4-Difluorobenzene (Surr)	126		70 - 130								

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-39591-1
SDG: 22-0105-14

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: LCS 880-73682/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 73708				Prep Batch: 73682			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)	1000	968.5		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	995.0		mg/Kg		100	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	94		70 - 130				
o-Terphenyl (Surr)	111		70 - 130				

Lab Sample ID: LCSD 880-73682/3-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Solid					Prep Type: Total/NA						
Analysis Batch: 73708					Prep Batch: 73682						
Analyte				Spike	LCSD	LCSD			%Rec		RPD
				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
											Limit
Gasoline Range Organics (GRO)				1000	968.1		mg/Kg		97	70 - 130	0
Diesel Range Organics (Over C10-C28)				1000	928.8		mg/Kg		93	70 - 130	7
				LCSD	LCSD						
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	83		70 - 130								
o-Terphenyl (Surr)	96		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA2

Lab Sample ID: MB 880-73682/1-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 73708						Prep Batch: 73682		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) - RA2	<50.0	U	50.0	mg/Kg		02/20/24 12:53	02/21/24 08:41	1
Diesel Range Organics (Over C10-C28) - RA2	<50.0	U	50.0	mg/Kg		02/20/24 12:53	02/21/24 08:41	1
Oil Range Organics (Over C28-C36) - RA2	<50.0	U	50.0	mg/Kg		02/20/24 12:53	02/21/24 08:41	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr) - RA2	103		70 - 130			02/20/24 12:53	02/21/24 08:41	1
o-Terphenyl (Surr) - RA2	117		70 - 130			02/20/24 12:53	02/21/24 08:41	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73606/1-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 73655									
	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00	mg/Kg			02/20/24 10:56	1	

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-39591-1
SDG: 22-0105-14

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-73606/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 73655									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	240.0		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-73606/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 73655									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	240.9		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-39591-1
SDG: 22-0105-14

GC VOA

Prep Batch: 73291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39591-1	C-29 0-4.1	Total/NA	Solid	5035	
MB 880-73291/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73291/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73291/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 73714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39591-1	C-29 0-4.1	Total/NA	Solid	8021B	73291
MB 880-73291/5-A	Method Blank	Total/NA	Solid	8021B	73291
LCS 880-73291/1-A	Lab Control Sample	Total/NA	Solid	8021B	73291
LCSD 880-73291/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73291

Analysis Batch: 73786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39591-1	C-29 0-4.1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 73682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39591-1	C-29 0-4.1	Total/NA	Solid	8015NM Prep	
MB 880-73682/1-A - RA2	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73682/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73682/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39591-1	C-29 0-4.1	Total/NA	Solid	8015B NM	73682
MB 880-73682/1-A - RA2	Method Blank	Total/NA	Solid	8015B NM	73682
LCS 880-73682/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73682
LCSD 880-73682/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73682

Analysis Batch: 73791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39591-1	C-29 0-4.1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 73606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39591-1	C-29 0-4.1	Soluble	Solid	DI Leach	
MB 880-73606/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73606/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73606/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 73655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39591-1	C-29 0-4.1	Soluble	Solid	300.0	73606
MB 880-73606/1-A	Method Blank	Soluble	Solid	300.0	73606
LCS 880-73606/2-A	Lab Control Sample	Soluble	Solid	300.0	73606
LCSD 880-73606/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73606

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-39591-1
SDG: 22-0105-14

Client Sample ID: C-29 0-4.1
Date Collected: 02/19/24 10:25
Date Received: 02/19/24 16:06

Lab Sample ID: 880-39591-1
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			5.05 g	5 mL	73291	02/21/24 08:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73714	02/21/24 12:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			73786	02/21/24 12:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			73791	02/21/24 13:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73682	02/20/24 12:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73708	02/21/24 13:11	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	73606	02/20/24 07:45	SA	EET MID
Soluble	Analysis	300.0		1			73655	02/20/24 11:37	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-39591-1
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	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-39591-1
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	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes Pad 34

Job ID: 880-39591-1
SDG: 22-0105-14

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-39591-1	C-29 0-4.1	Solid	02/19/24 10:25	02/19/24 16:06

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

No. 2896

CHAIN-OF-CUSTODY

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-39591-1
SDG Number: 22-0105-14

Login Number: 39591
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

Cardinal Point Select Lab Report



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

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Laboratory Job ID: 880-19309-1
SDG: 22-0104-08

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	6
Surrogate Summary	45
QC Sample Results	48
QC Association Summary	60
Lab Chronicle	72
Certification Summary	88
Method Summary	89
Sample Summary	90
Chain of Custody	91
Receipt Checklists	95

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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

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-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

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-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

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-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
OII 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
OII 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

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'

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

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-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

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-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

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-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
OII 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
OII 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

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'

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
OII 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
OII 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

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-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

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-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

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'

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
OII 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
OII 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

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'

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
OII 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
OII 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

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, 0.5'

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

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-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

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-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

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-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

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-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

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-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

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-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
OII 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
OII 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

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-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

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-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

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-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

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-23, 0.5'

Date Collected: 09/15/22 11:30

Date Received: 09/16/22 09:20

Lab Sample ID: 880-19309-51

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/16/22 14:47	09/18/22 01:46	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	114		70 - 130			09/16/22 14:47	09/18/22 01:46	1	
o-Terphenyl (Surr)	108		70 - 130			09/16/22 14:47	09/18/22 01:46	1	

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	205		4.98	mg/Kg			09/17/22 04:23	1	

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(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

Eurofins Midland

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

Eurofins Midland

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)

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35287/5-A

Matrix: Solid

Analysis Batch: 35560

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35287

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:07	09/28/22 12:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:07	09/28/22 12:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:07	09/28/22 12:11	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/23/22 15:07	09/28/22 12:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:07	09/28/22 12:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/23/22 15:07	09/28/22 12:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/23/22 15:07	09/28/22 12:11	1
1,4-Difluorobenzene (Surr)	116		70 - 130	09/23/22 15:07	09/28/22 12:11	1

Lab Sample ID: LCS 880-35287/1-A

Matrix: Solid

Analysis Batch: 35560

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35287

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1241		mg/Kg		124	70 - 130
Toluene	0.100	0.09590		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09201		mg/Kg		92	70 - 130
m,p-Xylenes	0.200	0.1861		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09135		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-35287/2-A

Matrix: Solid

Analysis Batch: 35560

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35287

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1230		mg/Kg		123	70 - 130	1	35
Toluene	0.100	0.09467		mg/Kg		95	70 - 130	1	35
Ethylbenzene	0.100	0.09080		mg/Kg		91	70 - 130	1	35
m,p-Xylenes	0.200	0.1846		mg/Kg		92	70 - 130	1	35
o-Xylene	0.100	0.09130		mg/Kg		91	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-35288/5-A

Matrix: Solid

Analysis Batch: 35584

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35288

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:24	09/28/22 13:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:24	09/28/22 13:37	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-35288/5-A

Matrix: Solid

Analysis Batch: 35584

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35288

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:24	09/28/22 13:37	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/23/22 15:24	09/28/22 13:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:24	09/28/22 13:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/23/22 15:24	09/28/22 13:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	09/23/22 15:24	09/28/22 13:37	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/23/22 15:24	09/28/22 13:37	1

Lab Sample ID: LCS 880-35288/1-A

Matrix: Solid

Analysis Batch: 35584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1388	*+	mg/Kg		139	70 - 130
Toluene	0.100	0.1186		mg/Kg		119	70 - 130
Ethylbenzene	0.100	0.1246		mg/Kg		125	70 - 130
m,p-Xylenes	0.200	0.2622	*+	mg/Kg		131	70 - 130
o-Xylene	0.100	0.1278		mg/Kg		128	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-35288/2-A

Matrix: Solid

Analysis Batch: 35584

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35288

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1346	*+	mg/Kg		135	70 - 130	3	35
Toluene	0.100	0.1306	*+	mg/Kg		131	70 - 130	10	35
Ethylbenzene	0.100	0.1542	*+	mg/Kg		154	70 - 130	21	35
m,p-Xylenes	0.200	0.3407	*+	mg/Kg		170	70 - 130	26	35
o-Xylene	0.100	0.1650	*+	mg/Kg		165	70 - 130	25	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 880-19309-1 MS

Matrix: Solid

Analysis Batch: 35584

Client Sample ID: S-1, 0'

Prep Type: Total/NA

Prep Batch: 35288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U *+	0.0998	0.1290		mg/Kg		129	70 - 130
Toluene	<0.00202	U *+	0.0998	0.1256		mg/Kg		125	70 - 130
Ethylbenzene	<0.00202	U *+ F1	0.0998	0.1433	F1	mg/Kg		144	70 - 130
m,p-Xylenes	<0.00404	U *+ F1	0.200	0.3169	F1	mg/Kg		159	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U *+	0.0996	0.1108		mg/Kg		111	70 - 130	15	35
Toluene	<0.00202	U *+	0.0996	0.1126		mg/Kg		112	70 - 130	11	35
Ethylbenzene	<0.00202	U *+ F1	0.0996	0.1290		mg/Kg		129	70 - 130	11	35
m,p-Xylenes	<0.00404	U *+ F1	0.199	0.2882	F1	mg/Kg		145	70 - 130	9	35
o-Xylene	<0.00202	U *+ F1	0.0996	0.1400	F1	mg/Kg		140	70 - 130	10	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130								

Lab Sample ID: MB 880-35289/5-A

Matrix: Solid

Analysis Batch: 35552

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35289

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:27	09/28/22 11:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:27	09/28/22 11:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:27	09/28/22 11:41	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		09/23/22 15:27	09/28/22 11:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/23/22 15:27	09/28/22 11:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/23/22 15:27	09/28/22 11:41	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			09/23/22 15:27	09/28/22 11:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130			09/23/22 15:27	09/28/22 11:41	1

Lab Sample ID: LCS 880-35289/1-A

Matrix: Solid

Analysis Batch: 35552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1058		mg/Kg		106	70 - 130
Toluene	0.100	0.09842		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09796		mg/Kg		98	70 - 130
m,p-Xylenes	0.200	0.2037		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1160		mg/Kg		116	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 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

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 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

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 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

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 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

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 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

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane (Surr)	157	S1+	70 - 130	09/16/22 14:47	09/17/22 20:03	1				
o-Terphenyl (Surr)	150	S1+	70 - 130	09/16/22 14:47	09/17/22 20:03	1				

Lab Sample ID: LCS 880-34684/2-A

Matrix: Solid

Analysis Batch: 34705

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34684

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	829.4		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	983.1		mg/Kg		98	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	124		70 - 130								
o-Terphenyl (Surr)	106		70 - 130								

Lab Sample ID: LCSD 880-34684/3-A

Matrix: Solid

Analysis Batch: 34705

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34684

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1021	*1	mg/Kg		102	70 - 130	21	20
Diesel Range Organics (Over C10-C28)			1000	872.8		mg/Kg		87	70 - 130	12	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	106		70 - 130								
o-Terphenyl (Surr)	93		70 - 130								

Lab Sample ID: 880-19309-41 MS

Matrix: Solid

Analysis Batch: 34705

Client Sample ID: S-21, 0'

Prep Type: Total/NA

Prep Batch: 34684

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	996	858.2		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	475	F1	996	597.4	F1	mg/Kg		12	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	111		70 - 130								
o-Terphenyl (Surr)	88		70 - 130								

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 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

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 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

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 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

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-19309-33 MSD										Client Sample ID: S-17, 0'		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 35105												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	34600	F1	24800	66560	F1	mg/Kg		129	90 - 110	0	20	

Lab Sample ID: 880-19309-43 MS										Client Sample ID: S-22, 0'		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 35105												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	26600		25100	52460		mg/Kg		103	90 - 110			

Lab Sample ID: 880-19309-43 MSD										Client Sample ID: S-22, 0'		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 35105												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	26600		25100	52420		mg/Kg		103	90 - 110	0	20	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Sand Dunes (SND) Pad 34

Job ID: 880-19309-1
SDG: 22-0104-08

GC VOA

Prep Batch: 35287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-41	S-21, 0'	Total/NA	Solid	5035	
880-19309-42	S-21, 0.5'	Total/NA	Solid	5035	
880-19309-43	S-22, 0'	Total/NA	Solid	5035	
880-19309-44	S-22, 0.5'	Total/NA	Solid	5035	
880-19309-45	S-23, 0'	Total/NA	Solid	5035	
880-19309-46	S-24, 0'	Total/NA	Solid	5035	
880-19309-47	S-24, 0.5'	Total/NA	Solid	5035	
880-19309-48	S-25, 0-0.5'	Total/NA	Solid	5035	
880-19309-49	S-26, 0-0.5'	Total/NA	Solid	5035	
880-19309-50	S-27, 0-0.5'	Total/NA	Solid	5035	
880-19309-51	S-23, 0.5'	Total/NA	Solid	5035	
MB 880-35287/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35287/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35287/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 35288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-1	S-1, 0'	Total/NA	Solid	5035	
880-19309-2	S-1, 0.5'	Total/NA	Solid	5035	
880-19309-3	S-2, 0'	Total/NA	Solid	5035	
880-19309-4	S-2, 0.5'	Total/NA	Solid	5035	
880-19309-5	S-3, 0'	Total/NA	Solid	5035	
880-19309-6	S-3, 0.5'	Total/NA	Solid	5035	
880-19309-7	S-4, 0'	Total/NA	Solid	5035	
880-19309-8	S-4, 0.5'	Total/NA	Solid	5035	
880-19309-9	S-5, 0'	Total/NA	Solid	5035	
880-19309-10	S-5, 0.5'	Total/NA	Solid	5035	
880-19309-11	S-6, 0'	Total/NA	Solid	5035	
880-19309-12	S-6, 0.5'	Total/NA	Solid	5035	
880-19309-13	S-7, 0'	Total/NA	Solid	5035	
880-19309-14	S-7, 0.5'	Total/NA	Solid	5035	
880-19309-15	S-8, 0'	Total/NA	Solid	5035	
880-19309-16	S-8, 0.5'	Total/NA	Solid	5035	
880-19309-17	S-9, 0'	Total/NA	Solid	5035	
880-19309-18	S-9, 0.5'	Total/NA	Solid	5035	
880-19309-19	S-10, 0'	Total/NA	Solid	5035	
880-19309-20	S-10, 0.5'	Total/NA	Solid	5035	
MB 880-35288/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35288/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35288/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19309-1 MS	S-1, 0'	Total/NA	Solid	5035	
880-19309-1 MSD	S-1, 0'	Total/NA	Solid	5035	

Prep Batch: 35289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19309-21	S-11, 0'	Total/NA	Solid	5035	
880-19309-22	S-11, 0.5'	Total/NA	Solid	5035	
880-19309-23	S-12, 0'	Total/NA	Solid	5035	
880-19309-24	S-12, 0.5'	Total/NA	Solid	5035	
880-19309-25	S-13, 0'	Total/NA	Solid	5035	
880-19309-26	S-13, 0.5'	Total/NA	Solid	5035	

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)

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

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: 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'**Date Collected: 09/15/22 10:12****Date Received: 09/16/22 09:20****Lab Sample ID: 880-19309-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		20			35104	09/22/22 05:02	CH	EET MID

Client Sample ID: S-4, 0.5'**Date Collected: 09/15/22 10:14****Date Received: 09/16/22 09:20****Lab Sample ID: 880-19309-8****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 16:24	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 15:11	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		5			35104	09/22/22 05:07	CH	EET MID

Client Sample ID: S-5, 0'**Date Collected: 09/15/22 10:16****Date Received: 09/16/22 09:20****Lab Sample ID: 880-19309-9****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 16:45	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 15:33	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		50			35104	09/22/22 05:11	CH	EET MID

Client Sample ID: S-5, 0.5'**Date Collected: 09/15/22 10:18****Date Received: 09/16/22 09:20****Lab Sample ID: 880-19309-10****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35288	09/23/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35584	09/28/22 17:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35629	09/28/22 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			34833	09/19/22 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34682	09/16/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34716	09/18/22 15:55	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34670	09/16/22 10:52	CH	EET MID
Soluble	Analysis	300.0		10			35104	09/22/22 05:16	CH	EET MID

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

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

CHAIN-OF-CUSTODY

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-19309-1

SDG Number: 22-0104-08

Login Number: 19309

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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 G
Photographic Documentation

Tracking Number: nAPP2226254935

Closure Report

Chevron USA, Inc., Sand Dunes Pad 34

Produced Water Release

March 20, 2024



Impacted area viewing northwest, October 5, 2022



Impacted area viewing west, October 5, 2022

Tracking Number: nAPP2226254935

Closure Report

Chevron USA, Inc., Sand Dunes Pad 34

Produced Water Release

March 20, 2024



Impacted area viewing southwest, October 5, 2022



Impacted area viewing east, October 5, 2022

Tracking Number: nAPP2226254935
Closure Report
Chevron USA, Inc., Sand Dunes Pad 34
Produced Water Release
March 20, 2024



Impacted area viewing southeast, October 5, 2022



Additional excavated area viewing north, January 31, 2024

Tracking Number: nAPP2226254935

Closure Report

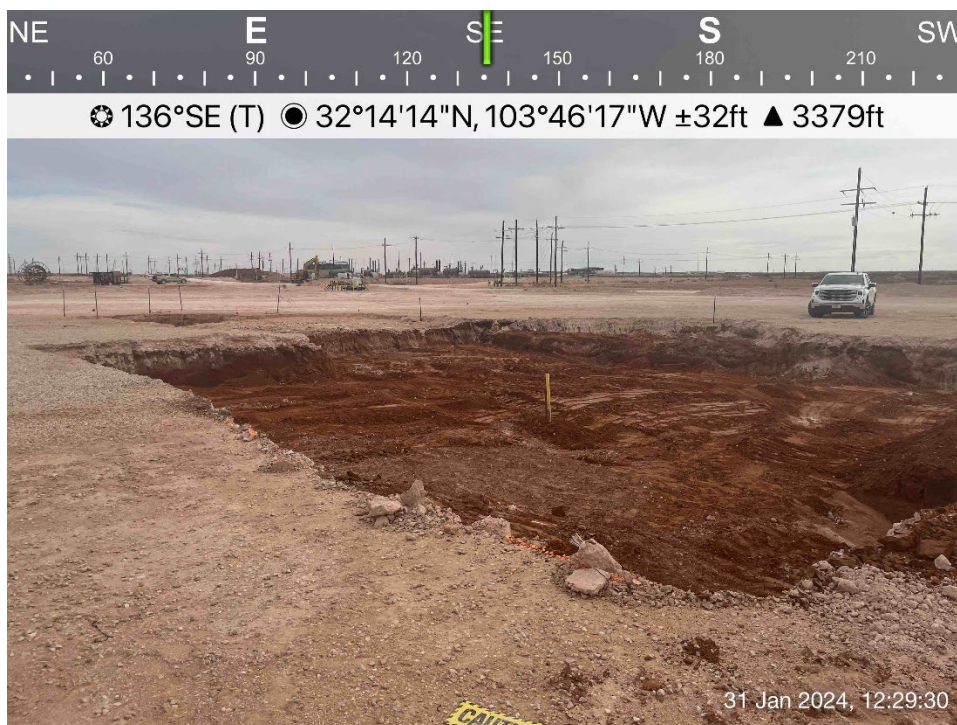
Chevron USA, Inc., Sand Dunes Pad 34

Produced Water Release

March 20, 2024



Additional excavated area viewing west, January 31, 2024



Additional excavated area viewing southeast, January 31, 2024

Tracking Number: nAPP2226254935
Closure Report
Chevron USA, Inc., Sand Dunes Pad 34
Produced Water Release
March 20, 2024

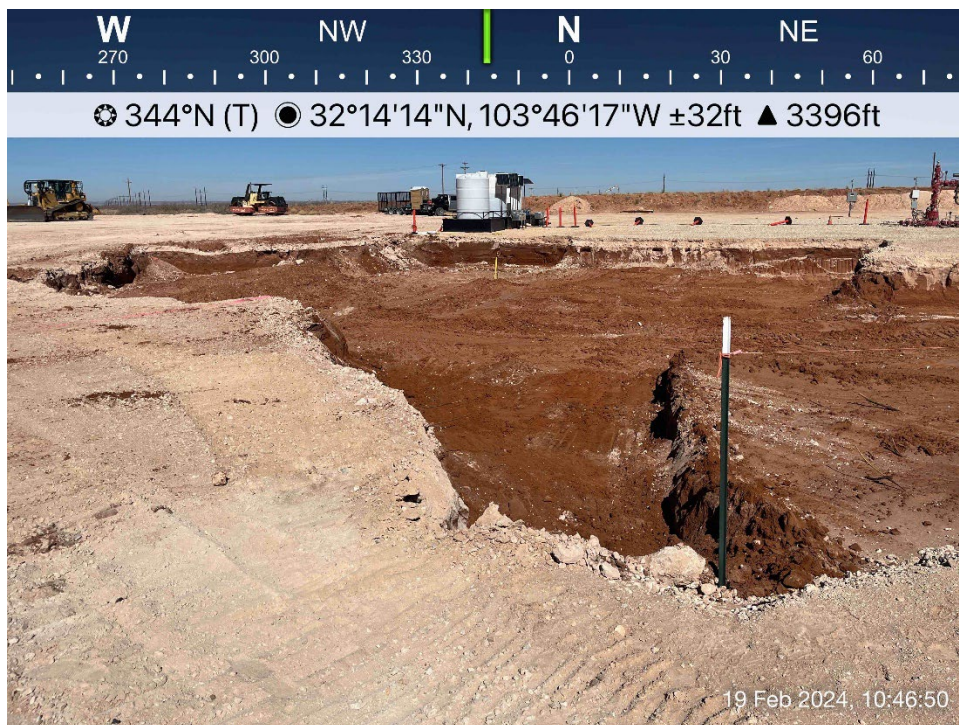


Additional excavated area viewing east, January 31, 2024



Additional excavated area viewing northeast, January 31, 2024

Tracking Number: nAPP2226254935
Closure Report
Chevron USA, Inc., Sand Dunes Pad 34
Produced Water Release
March 20, 2024



Additional excavated area viewing north, February 19, 2024



Additional excavated area viewing north, February 19, 2024

Tracking Number: nAPP2226254935
Closure Report
Chevron USA, Inc., Sand Dunes Pad 34
Produced Water Release
March 20, 2024



Backfilled and rolled excavated area viewing northwest, February 22, 2024



Backfilled and rolled excavated area viewing southwest, February 22, 2024

Tracking Number: nAPP2226254935
Closure Report
Chevron USA, Inc., Sand Dunes Pad 34
Produced Water Release
March 20, 2024



Backfilled and rolled excavated area viewing southeast, February 22, 2024



Backfilled and rolled excavated area viewing northeast, February 22, 2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 341919

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	341919
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2226254935
Incident Name	NAPP2226254935 SAND DUNES PAD 34 @ 30-015-46961
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-46961] SND 10 15 SCULL FEDERAL COM 001 #003H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SAND DUNES PAD 34
Date Release Discovered	09/08/2022
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Power Failure Pump Produced Water Released: 75 BBL Recovered: 45 BBL Lost: 30 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 341919

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 341919
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/08/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 341919

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	341919
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	7370
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	357
GRO+DRO (EPA SW-846 Method 8015M)	241
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	09/27/2023
On what date will (or did) the final sampling or liner inspection occur	02/19/2024
On what date will (or was) the remediation complete(d)	02/22/2024
What is the estimated surface area (in square feet) that will be reclaimed	6389
What is the estimated volume (in cubic yards) that will be reclaimed	786
What is the estimated surface area (in square feet) that will be remediated	6389
What is the estimated volume (in cubic yards) that will be remediated	786
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 341919

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:	4323
	Action Number:	341919
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/08/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 5

Action 341919

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 341919
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 6

Action 341919

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	341919
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	314336
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/19/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	6389
What was the total volume (cubic yards) remediated	786
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	6389
What was the total volume (in cubic yards) reclaimed	786
Summarize any additional remediation activities not included by answers (above)	Spill was all on pad.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/08/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 7

Action 341919

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 341919
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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 341919

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	341919
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
scwells	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC	5/9/2024