

Incident ID: nAPP2429640444
Delineation Report and Remediation Plan
Hayhurst NM Section 2, SWD Facility (Gravitas SWD)
Produced Water Release
Eddy County, New Mexico

Latitude: 32.066025
Longitude: -104.164817

LAI Project No. 24-0117-02

January 3, 2025

Prepared for:

Chevron USA, Inc.
6301 Deauville Blvd.
Midland, Texas 79706

Prepared by:

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1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Chevron USA, Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (NMOCD) District II in Artesia, New Mexico, for a produced water release at the Hayhurst NM Section 2 SWD Facility/Gravitas SWD (Site) located in Unit N (SE/4 of SW/4), Section 2, Township 26 South, Range 27 East, in Eddy County, New Mexico. The geodetic position is North 32.06602°, and West -104.16481°. Figure 1 presents a topographic map.

1.1 Background

The release was discovered on October 9, 2024, and was the result of equipment failure. About eight barrels (bbls) of produced water were released, and none of the released fluid was recovered according to the initial C-141. The spill covered an area of about 5,370 square feet entirely contained to the pad. No offsite areas were impacted by the release. The incident occurred on land owned by the State of New Mexico and managed by New Mexico State Land Office (NMSLO). The initial C-141 was received by the NMOCD on September 22, 2024, and assigned incident number nAPP2429640444. Appendix A presents the initial C-141 and Chevron spill calculation.

1.2 Physical Setting

The physical setting is as follows:

- Surface elevation is approximately 3,220 feet above mean sea level (msl).
- Surface topography slopes gently to the northeast.
- The nearest continuously flowing water course (Pecos River) is located about 7.16 miles to the northeast.
- The nearest lakebed, sinkhole, or playa lake is located about 4.1 miles to the southeast.
- The nearest wetland is located about 2.2 miles to the northwest.
- The nearest subsurface mine is located about 25.4 miles to the northeast.
- The nearest 100-year flood plain is located 1.8 miles to the northwest.
- The nearest active water well for stock watering is located about 600 feet to the west.
- USGS karst occurrence potential data designates the area as “high” risk.
- The uppermost geologic formation is the Rustler Formation, consisting of siltstone, gypsum, sandstone, and dolomite.
- Soils are predominantly Reeves-Gypsum land complex, where the typical Reeves profile consists of 8 inches of loam underlain by 24 inches of clay loam, and 28 inches of gypsiferous material, in descending order.
- Groundwater was reported at 25.25 feet below ground surface (bgs), based on a soil boring (BH-1) drilled on April 29, 2020, about 0.36 miles northwest of the Site and measured 72-hours after completion.

Figure 2 presents an aerial map with boring (BH-1) location. Appendix B presents a karst potential map. Appendix C presents the soil boring log.

1.3 Remediation Standards

The following delineation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC for groundwater less than 51 feet bgs:

Parameter	Limit
Benzene	10 mg/Kg
BTEX	50 mg/Kg
TPH	100 mg/Kg
Chloride	600 mg/Kg

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

2.0 DELINEATION

On October 24, 2024, LAI personnel used a stainless-steel hand auger to collect 18 soil samples from nine locations (S-1 through S-9). The samples were collected at 0 (surface level) and 0.5 feet bgs, depending on subsurface conditions. The samples were delivered under chain-of-custody and preservation to Eurofins Laboratories (Eurofins) in Midland, Texas. Eurofins analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW-846 Method 8021B; total petroleum hydrocarbons (TPH), including gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) by Method 8015M; and chloride by EPA Method 300.

Eurofins reported benzene, BTEX, and TPH below the NMOCD remediation standards in Table 1 of 10 milligrams per kilogram (mg/Kg), 50 mg/Kg, 100 mg/Kg, respectively, in the lowermost sample from each location. Chloride was reported above the NMOCD standard of 600 mg/Kg in the lowermost samples from S-1 (2,700 mg/Kg), S-2 (1,640 mg/Kg), S-3 (3,120 mg/Kg), S-5 (4,920 mg/Kg), S-7 (4,330 mg/Kg), S-8 (15,500 mg/Kg), and S-9 (6,880 mg/Kg).

Between December 17 and 20, 2024, LAI personnel used a Geoprobe 7822 direct push rig and/or a stainless-steel hand auger to collect 42 samples from eight locations (S-1 through S-3, S-5, S-7 through S-9, and S-12) inside of the spill area, and 4 locations (S-10, S-11, S-13, and S-14) outside and in each cardinal direction of the spill area. Samples were collected at 0, 0.5, 1, 3, 5, 7, and 10 feet bgs, depending on subsurface conditions, and if samples were collected from a location at those depths on October 24, 2024. The samples were delivered chain-of-custody and preservation to Eurofins in Midland, Texas. Eurofins reported that benzene, BTEX, TPH, and chloride were below NMOCD delineation limits in the lowermost sample at each location.

Laboratory analyses demonstrates that the release has been fully delineated in accordance with NMAC 19.15.29 for a release where groundwater is less than 51 feet bgs. Table 1 presents the delineation soil sample analytical data. Figure 3 presents the soil sample location map. Appendix D presents the laboratory analytical reports. Appendix E presents photographic documentation.

3.0 REMEDIATION PLAN

Chevron proposes the following remedial actions:

- Use mechanical and hydro-excavation methods to remove about 389 cubic yards of soil from a total area of approximately 6,495 square feet including:
 - Excavating the area (~4,757 square feet) encompassing locations S-1 through S-6 to a depth of one-foot bgs, equaling about 176.2 cubic yards.
 - Excavating the area (~986 square feet) encompassing locations S-7 and S-8 to a depth of two feet bgs, equaling about 73 cubic yards.
 - Excavating the area (~563 square feet) encompassing location S-9 to a depth of four feet bgs, equaling about 83.4 cubic yards.
 - Excavating the area (~190 square feet) encompassing location S-12 to a depth of eight feet bgs, equaling about 56 cubic yards
 - Or to areas and depths where all remediation parameters (benzene, BTEX, TPH, chloride) are below the NMOCD closure criteria throughout the impacted area.
- Collect about 44 5-point composite confirmation samples from the bottom and sidewalls of the excavation, or approximately every 200 square feet of the excavation, and analyze for BTEX, TPH, and chloride, by NMOCD approved analytical methods,
- Backfill excavation with non-waste containing soil to surface level, assuming all confirmation samples are below NMOCD closure criteria.
- Prepare closure report for submittal to the NMOCD.

Figure 3 presents the proposed excavation map.

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Table 1
Delineation Soil Sample Analytical Data Summary
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Eddy County, New Mexico
32.06637, -104.16509

Sample ID	Depth Feet	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limits:				10	50				100	600
S-1	0	10/24/2024	In-situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	5,180
S-1	0.5	10/24/2024	In-situ	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	2,700
S-1	1	12/17/2024	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	88.7
S-1	3	12/17/2024	In-situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	72.7
S-1	5	12/17/2024	In-situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	70.3
S-1	7	12/17/2024	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	75.7
S-1	10	12/17/2024	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	98.9
S-2	0	10/24/2024	In-situ	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	224
S-2	0.5	10/24/2024	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	1,640
S-2	1	12/18/2024	In-situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	126
S-2	3	12/18/2024	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	124
S-2	5	12/18/2024	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	72.6
S-2	7	12/18/2024	In-situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	76.2
S-2	10	12/18/2024	In-situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	109
S-3	0	10/24/2024	In-situ	<0.00204	<0.00407	<49.9	<49.9	<49.9	<49.9	6,570
S-3	0.5	10/24/2024	In-situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	3,120
S-3	1	12/18/2024	In-situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	238
S-3	3	12/18/2024	In-situ	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	145
S-3	5	12/18/2024	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	110
S-3	7	12/18/2024	In-situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	104
S-3	10	12/18/2024	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	70.2
S-4	0	10/24/2024	In-situ	<0.00199	<0.00398	<49.5	<49.5	<49.5	<49.5	529
S-4	0.5	10/24/2024	In-situ	<0.00200	<0.00399	<49.5	<49.5	<49.5	<49.5	510
S-5	0	10/24/2024	In-situ	<0.00200	<0.00401	<49.5	<49.5	<49.5	<49.5	9,410
S-5	0.5	10/24/2024	In-situ	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	4,920
S-5	1	12/18/2024	In-situ	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	300
S-5	3	12/18/2024	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	177
S-5	5	12/18/2024	In-situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	101
S-5	7	12/18/2024	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	84.6
S-5	10	12/18/2024	In-situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	37.1
S-6	0	10/24/2024	In-situ	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	5,520

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Eddy County, New Mexico
32.06637, -104.16509

Sample ID	Depth Feet	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limits:				10	50				100	600
S-6	0.5	10/24/2024	In-situ	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	571
S-7	0	10/24/2024	In-situ	<0.00200	<0.00400	<50.1	<50.1	<50.1	<50.1	21,300
S-7	0.5	10/24/2024	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	4,330
S-7	1	12/19/2024	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	1,710
S-7	3	12/19/2024	In-situ	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	301
S-8	0	10/24/2024	In-situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	8,760
S-8	0.5	10/24/2024	In-situ	<0.00200	<0.00400	<50.5	<50.5	<50.5	<50.5	15,500
S-8	1	12/19/2024	In-situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	2,650
S-8	3	12/19/2024	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	391
S-9	0	10/24/2024	In-situ	<0.00199	<0.00398	<50.0	106	<50.0	106	17,100
S-9	0.5	10/24/2024	In-situ	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	6,880
S-9	1	12/20/2024	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	5,350
S-9	3	12/20/2024	In-situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	1,490
S-9	5	12/20/2024	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	117
S-10	0	12/19/2024	In-situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	89.9
S-10	0.5	12/19/2024	In-situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	89.7
S-11	0	12/17/2024	In-situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	165
S-11	0.5	12/17/2024	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	128
S-12	0	12/19/2024	In-situ	<0.00200	<0.00401	<49.9	3060	<49.9	3060	26,800
S-12	0.5	12/19/2024	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	3,430
S-12	1	12/19/2024	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	3,590
S-12	3	12/19/2024	In-situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	2,650
S-12	5	12/19/2024	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	1,160
S-12	7	12/19/2024	In-situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	1,200
S-12	10	12/19/2024	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	194
S-13	0	12/20/2024	In-situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	120
S-13	0.5	12/20/2024	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	106
S-14	0	12/19/2024	In-situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	220
S-14	0.5	12/19/2024	In-situ	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	208

Table 1
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Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Eddy County, New Mexico
32.06637, -104.16509

Sample ID	Depth Feet	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limits:				10	50				100	600
Notes:										
Analysis performed by Eurofins Laboratories (Eurofins), in Midland, Texas, by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and EPA Method 300 (chloride). BTEX: benzene, toluene, ethylbenzene, xylene TPH: total petroleum hydrocarbons GRO: gasoline range organics (C6-C10) DRO: diesel range organics (>C10-C28) MRO: oil range organics (>C28-C36) mg/Kg: milligrams per kilogram; equivalent to parts per million (ppm) <: indicates that parameter concentration is below analytical method reporting limit Depth reported in feet below ground surface (bgs) Bold and highlighted indicates parameter concentration is above NMOCD closure criteria										

Figures

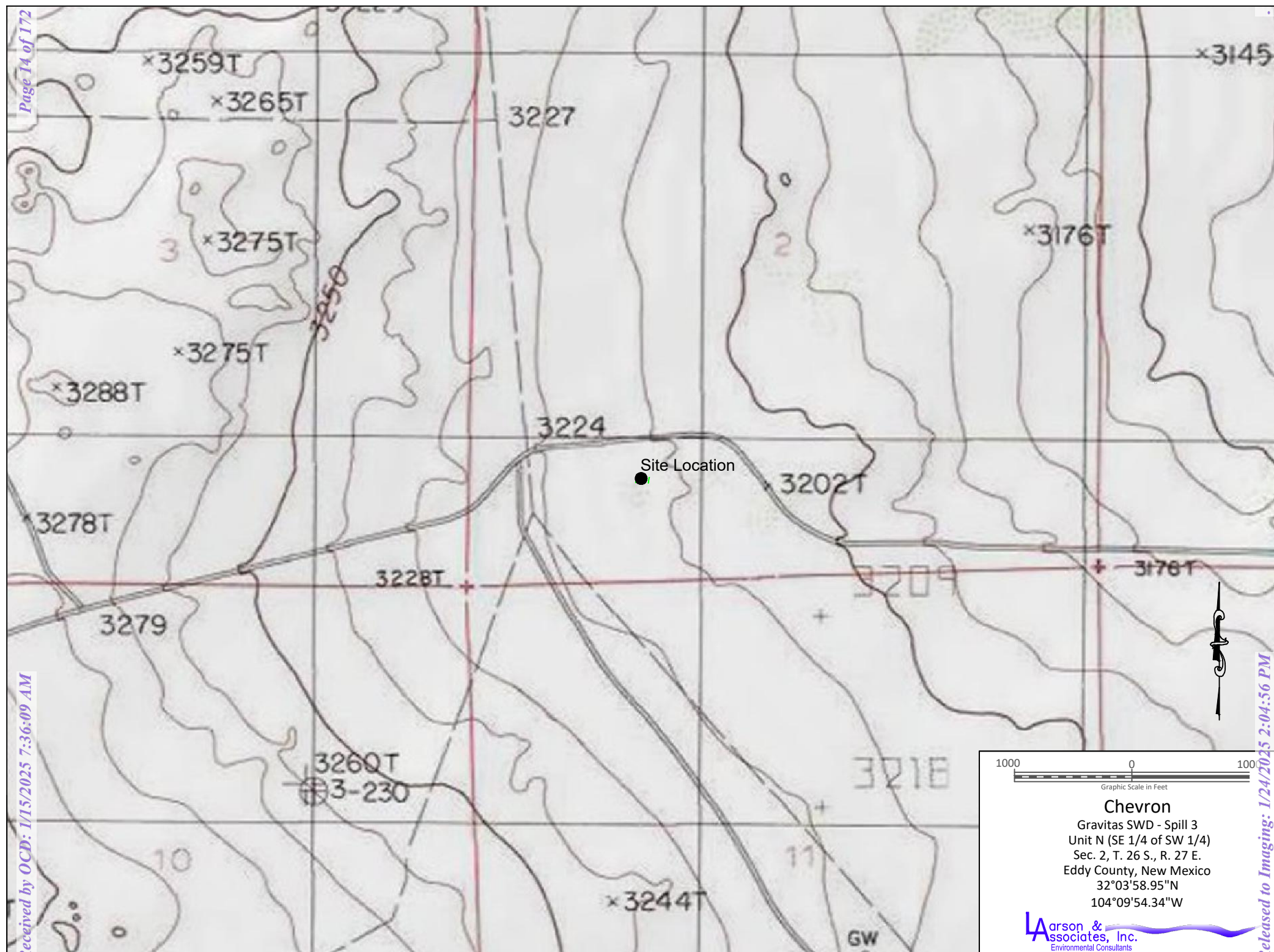
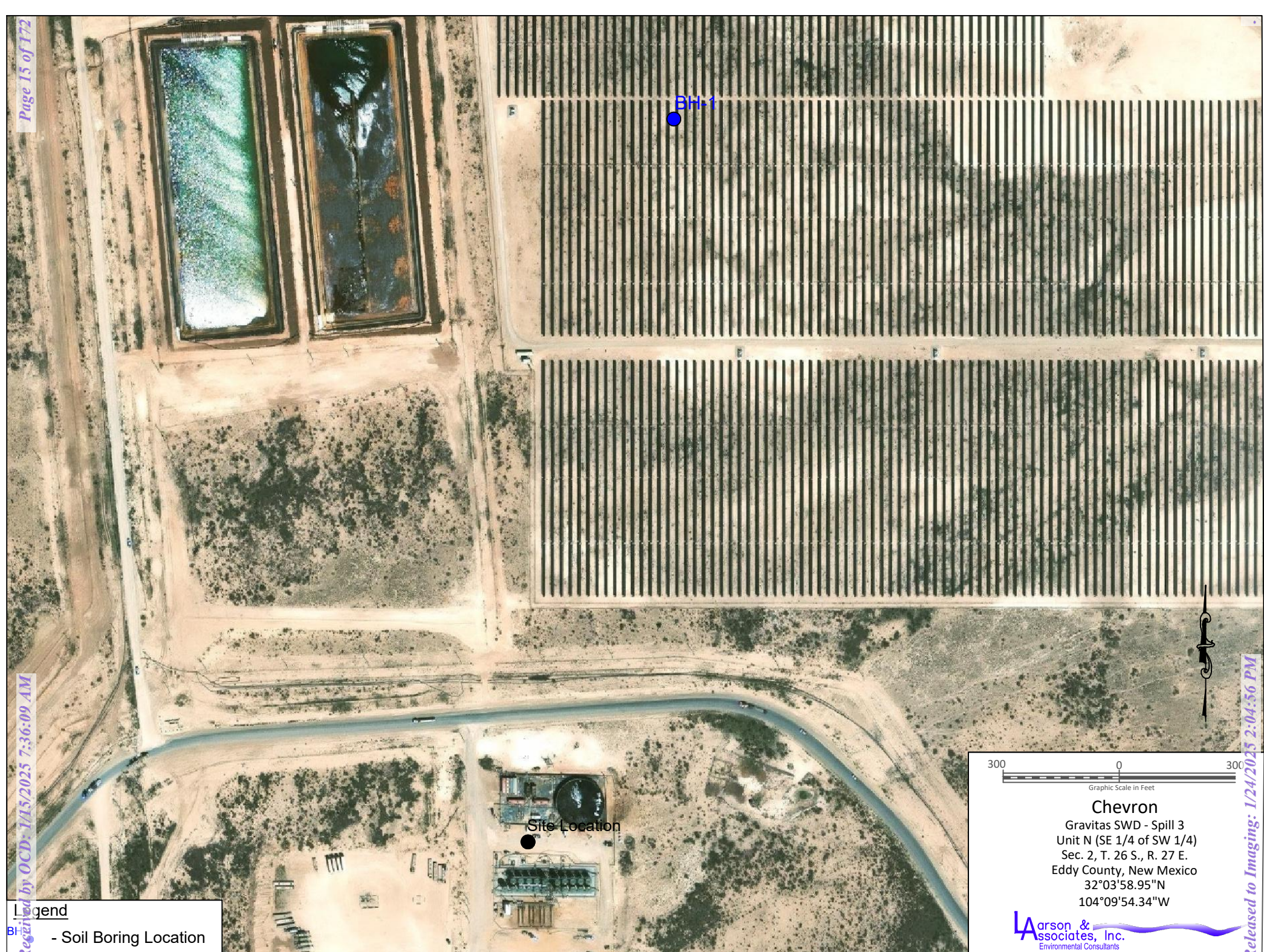


Figure 1 - Topographic Map

Legend

BH - Soil Boring Location

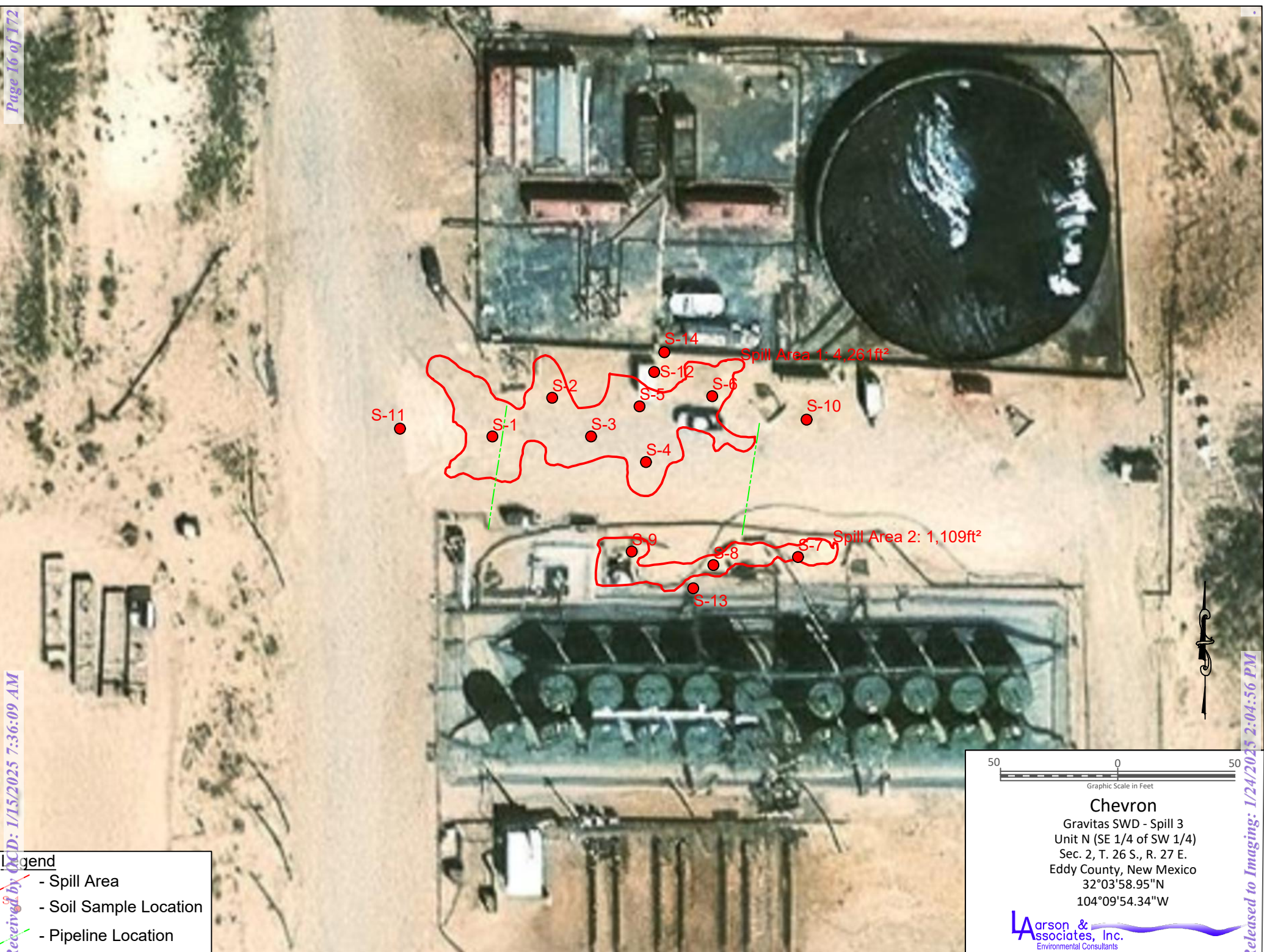


300 0 300
Graphic Scale in Feet

Chevron
Gravitas SWD - Spill 3
Unit N (SE 1/4 of SW 1/4)
Sec. 2, T. 26 S., R. 27 E.
Eddy County, New Mexico
32°03'58.95"N
104°09'54.34"W

Larson & Associates, Inc.
Environmental Consultants

Figure 2 - Aerial Map Showing Soil Boring Location



Legend

- Spill Area
- Soil Sample Location
- Pipeline Location

50 0 50
Graphic Scale in Feet

Chevron
 Gravitas SWD - Spill 3
 Unit N (SE 1/4 of SW 1/4)
 Sec. 2, T. 26 S., R. 27 E.
 Eddy County, New Mexico
 32°03'58.95"N
 104°09'54.34"W

Larson & Associates, Inc.
 Environmental Consultants

Figure 3 - Aerial Map Showing Soil Sample Locations

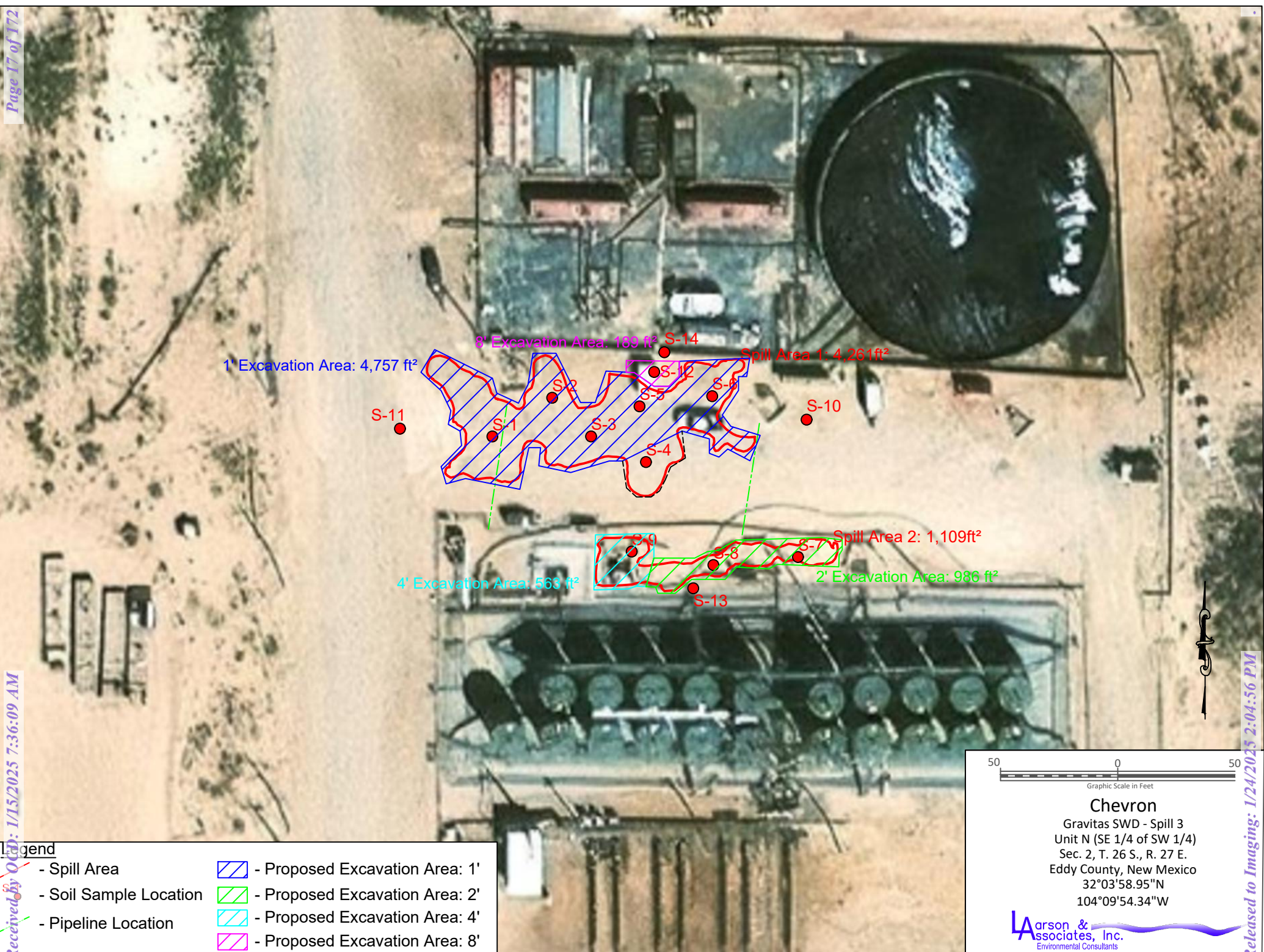


Figure 4 - Aerial Map Showing Proposed Excavation Areas

Appendix A
C-141 with Spill Calculation

Spilled Material: Produced Water Only
Oil Released: bbl
Oil Recovered: bbl
Water Released: 8.176 bbl
Water Recovered: bbl

Calculation Details									
Area	Shape	Secondary Containment	Standing Liquid Dimension	Standing Liquid Volume	Water Cut	Oil Volume	Penetration Depth	Water to Soil Volume	Water Volume
1	Rectangle	Land	13 ft x 18 ft x .125 in	0.499 bbl	%	0.499 bbl	.125 in	0.065 bbl	
2	Rectangle	Land	9 ft x 22 ft x .5 in	1.524 bbl	%	1.524 bbl	.125 in	0.055 bbl	
3	Rectangle	Land	13 ft x 13 ft x 1 in	2.555 bbl	%	2.555 bbl	.125 in	0.047 bbl	
4	Rectangle	Land	13 ft x 16 ft x 1 in	3.145 bbl	%	3.145 bbl	.125 in	0.058 bbl	
5	Rectangle	Land	10 ft x 3 ft x 1 in	0.453 bbl	%	0.453 bbl	.125 in	0.008 bbl	
6					%				
7					%				
Rec Vol									
Total Vol									8.176

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 394606

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394606
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2429640444
Incident Name	NAPP2429640444 HAYHURST NM SECTION 2 SWD FACILITY (GRAVITAS SWD) @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2131342213] Hayhurst NM Section 2 SWD Facility

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Date Release Discovered	10/09/2024
Surface Owner	State

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: Equipment Failure Pump Produced Water Released: 8 BBL Recovered: 0 BBL Lost: 8 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 394606

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394606
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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: Kennedy Lincoln Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 10/22/2024
--	--

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

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QUESTIONS, Page 3

Action 394606

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394606
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS**Site Characterization**

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.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
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	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

Remediation Plan

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.

Requesting a remediation plan approval with this submission	No
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.	

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 394606

CONDITIONS

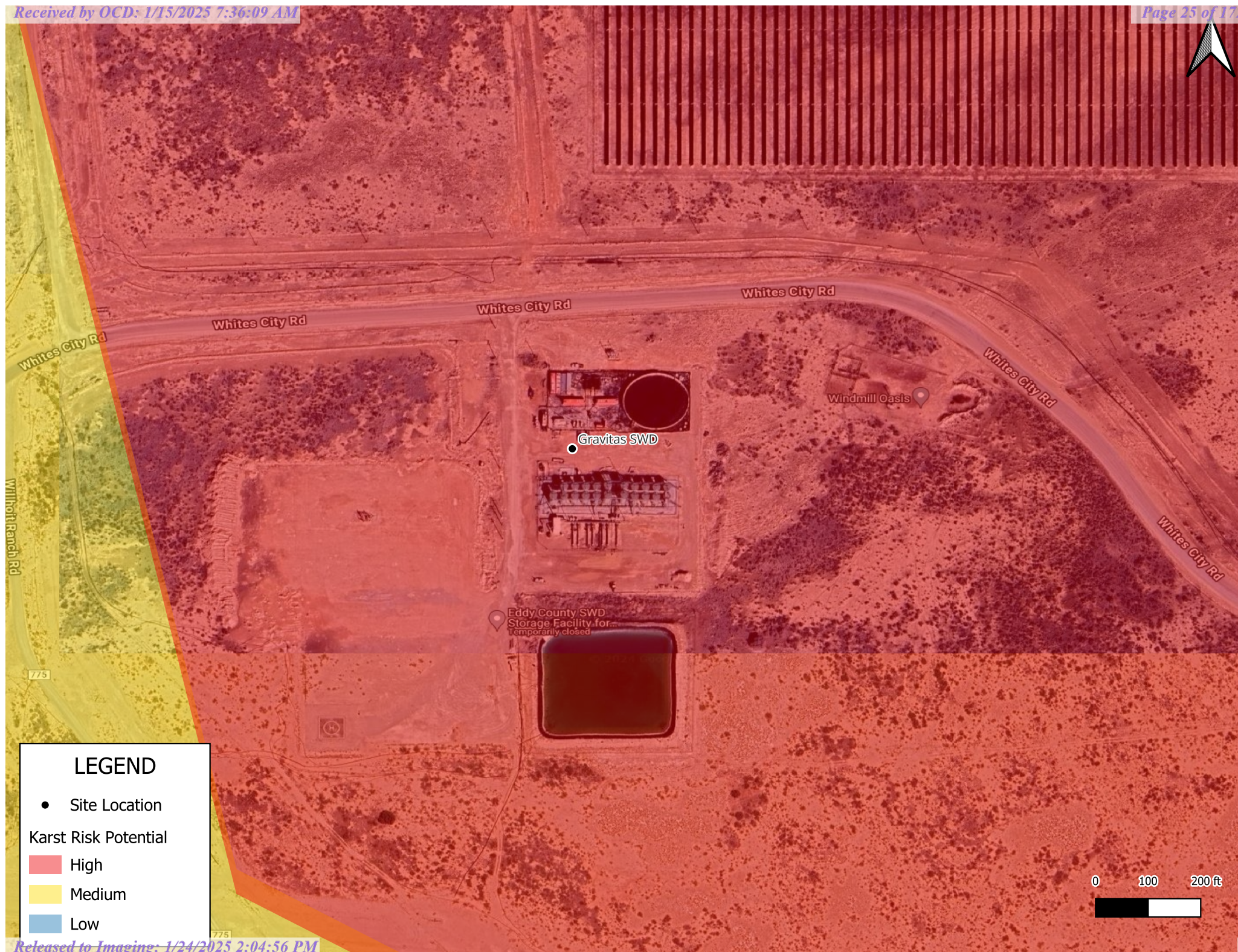
Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394606
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	10/22/2024

Appendix B

Karst Risk Potential



Appendix C

Boring Log

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 11:30 Finish: 12:30 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							
Depth to Water: 25.25	0	Silty Sand, 7.5YR 8/2, Pinkish White, Rounded, Fine Grained, Poorly Sorted, Subangular, 0.5-2cm Clast Inclusions	ML																	
	5	Caliche, 7.5YR 8/1, White, Rounded, Poorly Sorted, Medium Grained, Subangular, 0.5-1cm Diameter Clast Inclusions	Caliche																	
	10																			
	15	Silty Sand, 7.5YR 6/6, Reddish Yellow, Rounded, Fine Grained, Poorly Sorted, Subangular, 0.5-1cm Diameter Clast Inclusions	ML																	
	20	7.5YR 6/8, Reddish Yellow, Subangular, 0.5-2.5cm Diameter Clast Inclusions	ML																	
	25	Quartz Sand, 2.5YR 8/2, Pinkish White, Fine Grained, Rounded, Poorly Sorted, Subangular, 0.5-2cm Diameter Clast Inclusions	SM																	
	30																			
	35																			
	40	Quartz Sand, Very Fine Grained, Well Rounded, Poorly Sorted, 7.5YR 8/1, White, Subangular Clast Inclusions, 0.5-1.5cm Diameter	SM																	
	45																			
50																				

ONE CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)	JOB NUMBER : <u>Chevron/ 20-0107-03</u>
STANDARD PENETRATION TEST	LABORATORY TEST LOCATION	HOLE DIAMETER : <u>2"</u>
UNDISTURBED SAMPLE	PENETROMETER (TONS/ SQ. FT)	LOCATION : <u>32°04'17.3600", -104°09'49.6600"</u>
WATER TABLE (24 HRS)	NO RECOVERY	LAI GEOLOGIST : <u>R. Nelson</u>

	DRILL DATE : <u>04-29-2020</u>	BORING NUMBER : <u>BH-1</u>	DRILLING CONTRACTOR : <u>SDI</u>
			DRILLING METHOD : <u>Air Rotary</u>

Appendix D

Laboratory Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Brenda Balbino
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 11/6/2024 2:18:52 PM

JOB DESCRIPTION

Gravitas SWD
24-0117-02

JOB NUMBER

880-50551-1

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

Holly Taylor

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11/6/2024 2:18:52 PM

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

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Laboratory Job ID: 880-50551-1
SDG: 24-0117-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
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
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: Gravitas SWD

Job ID: 880-50551-1

Job ID: 880-50551-1

Eurofins Midland

Job Narrative 880-50551-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 11/1/2024 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 -2.8°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-94644/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: S-1 0.5 (880-50551-2), S-8 0 (880-50551-15), (LCS 880-94644/2-A) and (LCSD 880-94644/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-94555 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015MOD_NM: The closing continuing calibration verification (CCVC) associated with batch 880-94555 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-94644 and analytical batch 880-94555 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-94754 and analytical batch 880-94995 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-94754 and analytical batch 880-94995 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

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: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-1 0

Lab Sample ID: 880-50551-1

Date Collected: 10/24/24 10:54

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/01/24 22:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/01/24 22:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/01/24 22:40	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		11/01/24 11:15	11/01/24 22:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/01/24 22:40	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/01/24 11:15	11/01/24 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	11/01/24 11:15	11/01/24 22:40	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/01/24 11:15	11/01/24 22:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/01/24 22:40	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			11/02/24 00:13	1

Method: 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		11/01/24 15:38	11/02/24 00:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		11/01/24 15:38	11/02/24 00:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/01/24 15:38	11/02/24 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	125		70 - 130	11/01/24 15:38	11/02/24 00:13	1
o-Terphenyl (Surr)	116		70 - 130	11/01/24 15:38	11/02/24 00:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5180		198	mg/Kg			11/04/24 23:12	20

Client Sample ID: S-1 0.5

Lab Sample ID: 880-50551-2

Date Collected: 10/24/24 10:59

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/01/24 23:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/01/24 23:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/01/24 23:00	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/24 11:15	11/01/24 23:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/01/24 23:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/24 11:15	11/01/24 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	11/01/24 11:15	11/01/24 23:00	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/01/24 11:15	11/01/24 23:00	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-1 0.5

Lab Sample ID: 880-50551-2

Date Collected: 10/24/24 10:59

Matrix: Solid

Date Received: 11/01/24 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			11/01/24 23:00	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			11/02/24 01:02	1

Method: 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		11/01/24 15:38	11/02/24 01:02	1
Diesel Range Organics (Over C10-C28)	<50.4	U *1	50.4	mg/Kg		11/01/24 15:38	11/02/24 01:02	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		11/01/24 15:38	11/02/24 01:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	191	S1+	70 - 130			11/01/24 15:38	11/02/24 01:02	1
o-Terphenyl (Surr)	171	S1+	70 - 130			11/01/24 15:38	11/02/24 01:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2700		99.6	mg/Kg			11/04/24 23:26	10

Client Sample ID: S-2 0

Lab Sample ID: 880-50551-3

Date Collected: 10/24/24 11:03

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/01/24 23:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/01/24 23:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/01/24 23:21	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/24 11:15	11/01/24 23:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/01/24 23:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/24 11:15	11/01/24 23:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			11/01/24 11:15	11/01/24 23:21	1
1,4-Difluorobenzene (Surr)	96		70 - 130			11/01/24 11:15	11/01/24 23:21	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			11/01/24 23:21	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			11/02/24 01:20	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	<50.5	U	50.5	mg/Kg		11/01/24 15:38	11/02/24 01:20	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5	mg/Kg		11/01/24 15:38	11/02/24 01:20	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-2 0

Lab Sample ID: 880-50551-3

Date Collected: 10/24/24 11:03

Matrix: Solid

Date Received: 11/01/24 09:05

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		11/01/24 15:38	11/02/24 01:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			11/01/24 15:38	11/02/24 01:20	1
o-Terphenyl (Surr)	99		70 - 130			11/01/24 15:38	11/02/24 01:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224		10.0	mg/Kg			11/04/24 23:31	1

Client Sample ID: S-2 0.5

Lab Sample ID: 880-50551-4

Date Collected: 10/24/24 11:05

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/01/24 23:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/01/24 23:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/01/24 23:41	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		11/01/24 11:15	11/01/24 23:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/01/24 23:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/01/24 11:15	11/01/24 23:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			11/01/24 11:15	11/01/24 23:41	1
1,4-Difluorobenzene (Surr)	95		70 - 130			11/01/24 11:15	11/01/24 23:41	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			11/01/24 23:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/02/24 01:36	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	<49.9	U	49.9	mg/Kg		11/01/24 15:38	11/02/24 01:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		11/01/24 15:38	11/02/24 01:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/01/24 15:38	11/02/24 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			11/01/24 15:38	11/02/24 01:36	1
o-Terphenyl (Surr)	105		70 - 130			11/01/24 15:38	11/02/24 01:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1640		100	mg/Kg			11/04/24 23:36	10

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-3 0

Lab Sample ID: 880-50551-5

Date Collected: 10/24/24 11:07

Matrix: Solid

Date Received: 11/01/24 09:05

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00204	U	0.00204	mg/Kg		11/01/24 11:15	11/02/24 00:02	1
Toluene	<0.00204	U	0.00204	mg/Kg		11/01/24 11:15	11/02/24 00:02	1
Ethylbenzene	<0.00204	U	0.00204	mg/Kg		11/01/24 11:15	11/02/24 00:02	1
m,p-Xylenes	<0.00407	U	0.00407	mg/Kg		11/01/24 11:15	11/02/24 00:02	1
o-Xylene	<0.00204	U	0.00204	mg/Kg		11/01/24 11:15	11/02/24 00:02	1
Xylenes, Total	<0.00407	U	0.00407	mg/Kg		11/01/24 11:15	11/02/24 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	11/01/24 11:15	11/02/24 00:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130	11/01/24 11:15	11/02/24 00:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00407	U	0.00407	mg/Kg			11/02/24 00:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/02/24 01:54	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	<49.9	U	49.9	mg/Kg		11/01/24 15:38	11/02/24 01:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		11/01/24 15:38	11/02/24 01:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/01/24 15:38	11/02/24 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130	11/01/24 15:38	11/02/24 01:54	1
o-Terphenyl (Surr)	111		70 - 130	11/01/24 15:38	11/02/24 01:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6570		200	mg/Kg			11/04/24 23:41	20

Client Sample ID: S-3 0.5

Lab Sample ID: 880-50551-6

Date Collected: 10/24/24 11:11

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/02/24 00:22	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/01/24 11:15	11/02/24 00:22	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/01/24 11:15	11/02/24 00:22	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		11/01/24 11:15	11/02/24 00:22	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/01/24 11:15	11/02/24 00:22	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/01/24 11:15	11/02/24 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	11/01/24 11:15	11/02/24 00:22	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/01/24 11:15	11/02/24 00:22	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-3 0.5

Lab Sample ID: 880-50551-6

Date Collected: 10/24/24 11:11

Matrix: Solid

Date Received: 11/01/24 09:05

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			11/02/24 00:22	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			11/02/24 02:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/01/24 15:38	11/02/24 02:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		11/01/24 15:38	11/02/24 02:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/01/24 15:38	11/02/24 02:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130			11/01/24 15:38	11/02/24 02:10	1
o-Terphenyl (Surr)	108		70 - 130			11/01/24 15:38	11/02/24 02:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3120		201	mg/Kg			11/04/24 23:45	20

Client Sample ID: S-4 0

Lab Sample ID: 880-50551-7

Date Collected: 10/24/24 11:12

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/02/24 00:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/02/24 00:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/02/24 00:43	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/24 11:15	11/02/24 00:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/02/24 00:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/24 11:15	11/02/24 00:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			11/01/24 11:15	11/02/24 00:43	1
1,4-Difluorobenzene (Surr)	96		70 - 130			11/01/24 11:15	11/02/24 00:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/02/24 00:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5	mg/Kg			11/02/24 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)-C6-C10	<49.5	U	49.5	mg/Kg		11/01/24 15:38	11/02/24 02:26	1
Diesel Range Organics (Over C10-C28)	<49.5	U *1	49.5	mg/Kg		11/01/24 15:38	11/02/24 02:26	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-4 0

Lab Sample ID: 880-50551-7

Date Collected: 10/24/24 11:12

Matrix: Solid

Date Received: 11/01/24 09:05

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)	<49.5	U	49.5	mg/Kg		11/01/24 15:38	11/02/24 02:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			11/01/24 15:38	11/02/24 02:26	1
o-Terphenyl (Surr)	100		70 - 130			11/01/24 15:38	11/02/24 02:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	529		10.0	mg/Kg			11/04/24 23:50	1

Client Sample ID: S-4 0.5

Lab Sample ID: 880-50551-8

Date Collected: 10/24/24 11:15

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/02/24 01:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 01:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 01:03	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		11/01/24 11:15	11/02/24 01:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 01:03	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/01/24 11:15	11/02/24 01:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			11/01/24 11:15	11/02/24 01:03	1
1,4-Difluorobenzene (Surr)	95		70 - 130			11/01/24 11:15	11/02/24 01:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/02/24 01:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5	mg/Kg			11/02/24 02:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5	mg/Kg		11/01/24 15:38	11/02/24 02:42	1
Diesel Range Organics (Over C10-C28)	<49.5	U *1	49.5	mg/Kg		11/01/24 15:38	11/02/24 02:42	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		11/01/24 15:38	11/02/24 02:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			11/01/24 15:38	11/02/24 02:42	1
o-Terphenyl (Surr)	104		70 - 130			11/01/24 15:38	11/02/24 02:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	510		9.94	mg/Kg			11/04/24 23:55	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-5 0

Lab Sample ID: 880-50551-9

Date Collected: 10/24/24 11:25

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/02/24 01:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 01:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 01:24	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		11/01/24 11:15	11/02/24 01:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 01:24	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/01/24 11:15	11/02/24 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	11/01/24 11:15	11/02/24 01:24	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/01/24 11:15	11/02/24 01:24	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			11/02/24 01:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5	mg/Kg			11/02/24 02:59	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	<49.5	U	49.5	mg/Kg		11/01/24 15:38	11/02/24 02:59	1
Diesel Range Organics (Over C10-C28)	<49.5	U *1	49.5	mg/Kg		11/01/24 15:38	11/02/24 02:59	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		11/01/24 15:38	11/02/24 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130	11/01/24 15:38	11/02/24 02:59	1
o-Terphenyl (Surr)	106		70 - 130	11/01/24 15:38	11/02/24 02:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9410		199	mg/Kg			11/04/24 18:08	20

Client Sample ID: S-5 0.5

Lab Sample ID: 880-50551-10

Date Collected: 10/24/24 11:29

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/02/24 01:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/02/24 01:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/02/24 01:44	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/24 11:15	11/02/24 01:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/02/24 01:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/24 11:15	11/02/24 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	11/01/24 11:15	11/02/24 01:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130	11/01/24 11:15	11/02/24 01:44	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-5 0.5

Lab Sample ID: 880-50551-10

Date Collected: 10/24/24 11:29

Matrix: Solid

Date Received: 11/01/24 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			11/02/24 01:44	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			11/02/24 03:15	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	<50.3	U	50.3	mg/Kg		11/01/24 15:38	11/02/24 03:15	1
Diesel Range Organics (Over C10-C28)	<50.3	U *1	50.3	mg/Kg		11/01/24 15:38	11/02/24 03:15	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		11/01/24 15:38	11/02/24 03:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130			11/01/24 15:38	11/02/24 03:15	1
o-Terphenyl (Surr)	108		70 - 130			11/01/24 15:38	11/02/24 03:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4920		198	mg/Kg			11/04/24 18:15	20

Client Sample ID: S-6 0

Lab Sample ID: 880-50551-11

Date Collected: 10/24/24 11:33

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/02/24 03:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 03:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 03:07	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		11/01/24 11:15	11/02/24 03:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 03:07	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/01/24 11:15	11/02/24 03:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			11/01/24 11:15	11/02/24 03:07	1
1,4-Difluorobenzene (Surr)	97		70 - 130			11/01/24 11:15	11/02/24 03:07	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			11/02/24 03:07	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			11/02/24 03:48	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	<50.1	U	50.1	mg/Kg		11/01/24 15:38	11/02/24 03:48	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1	mg/Kg		11/01/24 15:38	11/02/24 03:48	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-6 0

Lab Sample ID: 880-50551-11

Date Collected: 10/24/24 11:33

Matrix: Solid

Date Received: 11/01/24 09:05

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		11/01/24 15:38	11/02/24 03:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			11/01/24 15:38	11/02/24 03:48	1
o-Terphenyl (Surr)	92		70 - 130			11/01/24 15:38	11/02/24 03:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5520		200	mg/Kg			11/04/24 18:21	20

Client Sample ID: S-6 0.5

Lab Sample ID: 880-50551-12

Date Collected: 10/24/24 11:42

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/02/24 03:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/01/24 11:15	11/02/24 03:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/01/24 11:15	11/02/24 03:28	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		11/01/24 11:15	11/02/24 03:28	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/01/24 11:15	11/02/24 03:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/01/24 11:15	11/02/24 03:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			11/01/24 11:15	11/02/24 03:28	1
1,4-Difluorobenzene (Surr)	96		70 - 130			11/01/24 11:15	11/02/24 03:28	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			11/02/24 03:28	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			11/02/24 04:04	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		11/01/24 15:38	11/02/24 04:04	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5	mg/Kg		11/01/24 15:38	11/02/24 04:04	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		11/01/24 15:38	11/02/24 04:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	125		70 - 130			11/01/24 15:38	11/02/24 04:04	1
o-Terphenyl (Surr)	114		70 - 130			11/01/24 15:38	11/02/24 04:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	571		9.90	mg/Kg			11/04/24 18:41	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-7 0

Lab Sample ID: 880-50551-13

Date Collected: 10/24/24 11:46

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/02/24 03:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 03:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 03:48	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/01/24 11:15	11/02/24 03:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 03:48	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/24 11:15	11/02/24 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	11/01/24 11:15	11/02/24 03:48	1
1,4-Difluorobenzene (Surr)	96		70 - 130	11/01/24 11:15	11/02/24 03:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/02/24 03:48	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			11/02/24 04:20	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	<50.1	U	50.1	mg/Kg		11/01/24 15:38	11/02/24 04:20	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1	mg/Kg		11/01/24 15:38	11/02/24 04:20	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		11/01/24 15:38	11/02/24 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130	11/01/24 15:38	11/02/24 04:20	1
o-Terphenyl (Surr)	108		70 - 130	11/01/24 15:38	11/02/24 04:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21300		495	mg/Kg			11/04/24 18:47	50

Client Sample ID: S-7 0.5

Lab Sample ID: 880-50551-14

Date Collected: 10/24/24 11:50

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/02/24 04:09	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/01/24 11:15	11/02/24 04:09	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/01/24 11:15	11/02/24 04:09	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		11/01/24 11:15	11/02/24 04:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/01/24 11:15	11/02/24 04:09	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/01/24 11:15	11/02/24 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	11/01/24 11:15	11/02/24 04:09	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/01/24 11:15	11/02/24 04:09	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-7 0.5

Lab Sample ID: 880-50551-14

Date Collected: 10/24/24 11:50

Matrix: Solid

Date Received: 11/01/24 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			11/02/24 04:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/02/24 04:36	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	<49.8	U	49.8	mg/Kg		11/01/24 15:38	11/02/24 04:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		11/01/24 15:38	11/02/24 04:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/01/24 15:38	11/02/24 04:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130			11/01/24 15:38	11/02/24 04:36	1
o-Terphenyl (Surr)	102		70 - 130			11/01/24 15:38	11/02/24 04:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4330		199	mg/Kg			11/04/24 19:07	20

Client Sample ID: S-8 0

Lab Sample ID: 880-50551-15

Date Collected: 10/24/24 11:54

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/02/24 04:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 04:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 04:29	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		11/01/24 11:15	11/02/24 04:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 04:29	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/01/24 11:15	11/02/24 04:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			11/01/24 11:15	11/02/24 04:29	1
1,4-Difluorobenzene (Surr)	97		70 - 130			11/01/24 11:15	11/02/24 04:29	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			11/02/24 04:29	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			11/02/24 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)-C6-C10	<49.7	U	49.7	mg/Kg		11/01/24 15:38	11/02/24 04:52	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7	mg/Kg		11/01/24 15:38	11/02/24 04:52	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-8 0

Lab Sample ID: 880-50551-15

Date Collected: 10/24/24 11:54

Matrix: Solid

Date Received: 11/01/24 09:05

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)	<49.7	U	49.7	mg/Kg		11/01/24 15:38	11/02/24 04:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	198	S1+	70 - 130			11/01/24 15:38	11/02/24 04:52	1
o-Terphenyl (Surr)	182	S1+	70 - 130			11/01/24 15:38	11/02/24 04:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8760		200	mg/Kg			11/04/24 19:14	20

Client Sample ID: S-8 0.5

Lab Sample ID: 880-50551-16

Date Collected: 10/24/24 11:56

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/02/24 04:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 04:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 04:50	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/01/24 11:15	11/02/24 04:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 04:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/24 11:15	11/02/24 04:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			11/01/24 11:15	11/02/24 04:50	1
1,4-Difluorobenzene (Surr)	97		70 - 130			11/01/24 11:15	11/02/24 04:50	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			11/02/24 04:50	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			11/02/24 05:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		11/01/24 15:38	11/02/24 05:09	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5	mg/Kg		11/01/24 15:38	11/02/24 05:09	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		11/01/24 15:38	11/02/24 05:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130			11/01/24 15:38	11/02/24 05:09	1
o-Terphenyl (Surr)	109		70 - 130			11/01/24 15:38	11/02/24 05:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15500		498	mg/Kg			11/04/24 19:20	50

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-9 0

Lab Sample ID: 880-50551-17

Date Collected: 10/24/24 11:58

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/02/24 05:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/02/24 05:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/02/24 05:10	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		11/01/24 11:15	11/02/24 05:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/01/24 11:15	11/02/24 05:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/24 11:15	11/02/24 05:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	11/01/24 11:15	11/02/24 05:10	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/01/24 11:15	11/02/24 05:10	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			11/02/24 05:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	106		50.0	mg/Kg			11/05/24 17:50	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		11/04/24 09:54	11/05/24 17:50	1
Diesel Range Organics (Over C10-C28)	106	F1	50.0	mg/Kg		11/04/24 09:54	11/05/24 17:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/04/24 09:54	11/05/24 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	11/04/24 09:54	11/05/24 17:50	1
o-Terphenyl (Surr)	92		70 - 130	11/04/24 09:54	11/05/24 17:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17100		505	mg/Kg			11/04/24 19:27	50

Client Sample ID: S-9 0.5

Lab Sample ID: 880-50551-18

Date Collected: 10/24/24 12:02

Matrix: Solid

Date Received: 11/01/24 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		11/01/24 11:15	11/02/24 05:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 05:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 05:30	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		11/01/24 11:15	11/02/24 05:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/02/24 05:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/01/24 11:15	11/02/24 05:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	11/01/24 11:15	11/02/24 05:30	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/01/24 11:15	11/02/24 05:30	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-9 0.5
Date Collected: 10/24/24 12:02
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-18
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/02/24 05:30	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			11/02/24 05:41	1	
Method: 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		11/01/24 15:38	11/02/24 05:41	1	
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7	mg/Kg		11/01/24 15:38	11/02/24 05:41	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		11/01/24 15:38	11/02/24 05:41	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	107		70 - 130			11/01/24 15:38	11/02/24 05:41	1	
o-Terphenyl (Surr)	101		70 - 130			11/01/24 15:38	11/02/24 05:41	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	6880		201	mg/Kg			11/04/24 19:33	20	

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

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)
880-50551-1	S-1 0	115	94
880-50551-1 MS	S-1 0	102	97
880-50551-1 MSD	S-1 0	106	100
880-50551-2	S-1 0.5	122	95
880-50551-3	S-2 0	116	96
880-50551-4	S-2 0.5	116	95
880-50551-5	S-3 0	114	96
880-50551-6	S-3 0.5	118	95
880-50551-7	S-4 0	119	96
880-50551-8	S-4 0.5	117	95
880-50551-9	S-5 0	125	94
880-50551-10	S-5 0.5	118	96
880-50551-11	S-6 0	127	97
880-50551-12	S-6 0.5	113	96
880-50551-13	S-7 0	117	96
880-50551-14	S-7 0.5	120	95
880-50551-15	S-8 0	115	97
880-50551-16	S-8 0.5	117	97
880-50551-17	S-9 0	121	95
880-50551-18	S-9 0.5	120	95
LCS 880-94615/1-A	Lab Control Sample	103	101
LCSD 880-94615/2-A	Lab Control Sample Dup	100	103
MB 880-94584/5-A	Method Blank	109	88
MB 880-94615/5-A	Method Blank	113	88
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)
880-50551-1	S-1 0	125	116
880-50551-1 MS	S-1 0	102	103
880-50551-1 MSD	S-1 0	102	102
880-50551-2	S-1 0.5	191 S1+	171 S1+
880-50551-3	S-2 0	109	99
880-50551-4	S-2 0.5	114	105
880-50551-5	S-3 0	117	111
880-50551-6	S-3 0.5	117	108
880-50551-7	S-4 0	110	100
880-50551-8	S-4 0.5	114	104
880-50551-9	S-5 0	114	106
880-50551-10	S-5 0.5	117	108
880-50551-11	S-6 0	99	92
880-50551-12	S-6 0.5	125	114
880-50551-13	S-7 0	115	108

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Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

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)
880-50551-14	S-7 0.5	110	102
880-50551-15	S-8 0	198 S1+	182 S1+
880-50551-16	S-8 0.5	118	109
880-50551-17	S-9 0	91	92
880-50551-17 MS	S-9 0	87	76
880-50551-17 MSD	S-9 0	87	75
880-50551-18	S-9 0.5	107	101
LCS 880-94644/2-A	Lab Control Sample	137 S1+	139 S1+
LCS 880-94754/2-A	Lab Control Sample	105	95
LCSD 880-94644/3-A	Lab Control Sample Dup	163 S1+	164 S1+
LCSD 880-94754/3-A	Lab Control Sample Dup	105	95
MB 880-94644/1-A	Method Blank	169 S1+	157 S1+
MB 880-94754/1-A	Method Blank	73	72
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-94584/5-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 94581						Prep Batch: 94584		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/24 09:15	11/01/24 11:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/24 09:15	11/01/24 11:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/24 09:15	11/01/24 11:43	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/01/24 09:15	11/01/24 11:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/24 09:15	11/01/24 11:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/24 09:15	11/01/24 11:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			11/01/24 09:15	11/01/24 11:43	1
1,4-Difluorobenzene (Surr)	88		70 - 130			11/01/24 09:15	11/01/24 11:43	1

Lab Sample ID: MB 880-94615/5-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 94581						Prep Batch: 94615		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/01/24 22:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/01/24 22:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/01/24 22:18	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		11/01/24 11:15	11/01/24 22:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/24 11:15	11/01/24 22:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/24 11:15	11/01/24 22:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			11/01/24 11:15	11/01/24 22:18	1
1,4-Difluorobenzene (Surr)	88		70 - 130			11/01/24 11:15	11/01/24 22:18	1

Lab Sample ID: LCS 880-94615/1-A						Client Sample ID: Lab Control Sample		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 94581						Prep Batch: 94615		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	0.100	0.1022		mg/Kg		102	70 - 130	
Toluene	0.100	0.1037		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1005		mg/Kg		101	70 - 130	
m,p-Xylenes	0.200	0.1969		mg/Kg		98	70 - 130	
o-Xylene	0.100	0.09991		mg/Kg		100	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	103		70 - 130					
1,4-Difluorobenzene (Surr)	101		70 - 130					

Lab Sample ID: LCSD 880-94615/2-A						Client Sample ID: Lab Control Sample Dup		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 94581						Prep Batch: 94615		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Benzene	0.100	0.1059		mg/Kg		106	70 - 130	4 35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

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

Lab Sample ID: LCSD 880-94615/2-A

Matrix: Solid

Analysis Batch: 94581

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 94615

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.1058		mg/Kg		106	70 - 130		2	35
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130		3	35
m,p-Xylenes	0.200	0.2016		mg/Kg		101	70 - 130		2	35
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130		3	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-50551-1 MS

Matrix: Solid

Analysis Batch: 94581

Client Sample ID: S-1 0

Prep Type: Total/NA

Prep Batch: 94615

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00200	U	0.100	0.07704		mg/Kg		77	70 - 130	
Toluene	<0.00200	U	0.100	0.07733		mg/Kg		77	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.07254		mg/Kg		73	70 - 130	
m,p-Xylenes	<0.00401	U	0.200	0.1415		mg/Kg		71	70 - 130	
o-Xylene	<0.00200	U	0.100	0.07369		mg/Kg		74	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-50551-1 MSD

Matrix: Solid

Analysis Batch: 94581

Client Sample ID: S-1 0

Prep Type: Total/NA

Prep Batch: 94615

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00200	U	0.100	0.09967		mg/Kg		100	70 - 130		26	35
Toluene	<0.00200	U	0.100	0.09945		mg/Kg		99	70 - 130		25	35
Ethylbenzene	<0.00200	U	0.100	0.09516		mg/Kg		95	70 - 130		27	35
m,p-Xylenes	<0.00401	U	0.200	0.1856		mg/Kg		93	70 - 130		27	35
o-Xylene	<0.00200	U	0.100	0.09438		mg/Kg		94	70 - 130		25	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-94644/1-A

Matrix: Solid

Analysis Batch: 94555

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 94644

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/01/24 15:37	11/01/24 23:22	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

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

Lab Sample ID: MB 880-94644/1-A

Matrix: Solid

Analysis Batch: 94555

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 94644

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/01/24 15:37	11/01/24 23:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/01/24 15:37	11/01/24 23:22	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1-Chlorooctane (Surr)	169	S1+	70 - 130			11/01/24 15:37	11/01/24 23:22	1
o-Terphenyl (Surr)	157	S1+	70 - 130			11/01/24 15:37	11/01/24 23:22	1

Lab Sample ID: LCS 880-94644/2-A

Matrix: Solid

Analysis Batch: 94555

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 94644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	921.0		mg/Kg		92	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	819.4		mg/Kg		82	70 - 130	
Surrogate	LCS	LCS	Limits					
	%Recovery	Qualifier						
1-Chlorooctane (Surr)	137	S1+	70 - 130					
o-Terphenyl (Surr)	139	S1+	70 - 130					

Lab Sample ID: LCSD 880-94644/3-A

Matrix: Solid

Analysis Batch: 94555

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 94644

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1054		mg/Kg		105	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	1007	*1	mg/Kg		101	70 - 130	21	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane (Surr)	163	S1+	70 - 130						
o-Terphenyl (Surr)	164	S1+	70 - 130						

Lab Sample ID: 880-50551-1 MS

Matrix: Solid

Analysis Batch: 94555

Client Sample ID: S-1 0

Prep Type: Total/NA

Prep Batch: 94644

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
	Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	966.3		mg/Kg		96	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U *1	1000	1017		mg/Kg		99	70 - 130	
Surrogate	MS	MS	Limits							
	%Recovery	Qualifier								
1-Chlorooctane (Surr)	102		70 - 130							
o-Terphenyl (Surr)	103		70 - 130							

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

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

Lab Sample ID: 880-50551-1 MSD

Matrix: Solid

Analysis Batch: 94555

Client Sample ID: S-1 0

Prep Type: Total/NA

Prep Batch: 94644

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1012		mg/Kg		101	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.8	U *1	1000	1046		mg/Kg		101	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	102		70 - 130								
o-Terphenyl (Surr)	102		70 - 130								

Lab Sample ID: MB 880-94754/1-A

Matrix: Solid

Analysis Batch: 94995

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 94754

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		11/04/24 09:54	11/05/24 15:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/04/24 09:54	11/05/24 15:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/04/24 09:54	11/05/24 15:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130			11/04/24 09:54	11/05/24 15:14	1
o-Terphenyl (Surr)	72		70 - 130			11/04/24 09:54	11/05/24 15:14	1

Lab Sample ID: LCS 880-94754/2-A

Matrix: Solid

Analysis Batch: 94995

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 94754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	792.8		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	730.7		mg/Kg		73	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane (Surr)	105		70 - 130						
o-Terphenyl (Surr)	95		70 - 130						

Lab Sample ID: LCSD 880-94754/3-A

Matrix: Solid

Analysis Batch: 94995

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 94754

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	798.8		mg/Kg		80	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	708.9		mg/Kg		71	70 - 130	3	20

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

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

Lab Sample ID: LCSD 880-94754/3-A

Matrix: Solid

Analysis Batch: 94995

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 94754

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	105		70 - 130
o-Terphenyl (Surr)	95		70 - 130

Lab Sample ID: 880-50551-17 MS

Matrix: Solid

Analysis Batch: 94995

Client Sample ID: S-9 0

Prep Type: Total/NA

Prep Batch: 94754

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	746.9		mg/Kg		75	70 - 130	
Diesel Range Organics (Over C10-C28)	106	F1	997	703.4	F1	mg/Kg		60	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	87		70 - 130
o-Terphenyl (Surr)	76		70 - 130

Lab Sample ID: 880-50551-17 MSD

Matrix: Solid

Analysis Batch: 94995

Client Sample ID: S-9 0

Prep Type: Total/NA

Prep Batch: 94754

	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	<50.0	U	997	755.3		mg/Kg		76	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	106	F1	997	713.7	F1	mg/Kg		61	70 - 130	1	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	87		70 - 130
o-Terphenyl (Surr)	75		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-94690/1-A

Matrix: Solid

Analysis Batch: 94742

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac	
Chloride	<10.0	U	10.0	mg/Kg			11/04/24 21:31		1	

Lab Sample ID: LCS 880-94690/2-A

Matrix: Solid

Analysis Batch: 94742

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	250.9		mg/Kg		100	90 - 110			

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-94690/3-A

Matrix: Solid

Analysis Batch: 94742

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	250.5		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-94691/1-A

Matrix: Solid

Analysis Batch: 94746

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			11/04/24 16:29	1

Lab Sample ID: LCS 880-94691/2-A

Matrix: Solid

Analysis Batch: 94746

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.6		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-94691/3-A

Matrix: Solid

Analysis Batch: 94746

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	257.5		mg/Kg		103	90 - 110	3	20

Lab Sample ID: 880-50551-11 MS

Matrix: Solid

Analysis Batch: 94746

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	5520		4990	10530		mg/Kg		101	90 - 110

Lab Sample ID: 880-50551-11 MSD

Matrix: Solid

Analysis Batch: 94746

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	5520		4990	10910		mg/Kg		108	90 - 110	4	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

GC VOA

Analysis Batch: 94581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-1	S-1 0	Total/NA	Solid	8021B	94615
880-50551-2	S-1 0.5	Total/NA	Solid	8021B	94615
880-50551-3	S-2 0	Total/NA	Solid	8021B	94615
880-50551-4	S-2 0.5	Total/NA	Solid	8021B	94615
880-50551-5	S-3 0	Total/NA	Solid	8021B	94615
880-50551-6	S-3 0.5	Total/NA	Solid	8021B	94615
880-50551-7	S-4 0	Total/NA	Solid	8021B	94615
880-50551-8	S-4 0.5	Total/NA	Solid	8021B	94615
880-50551-9	S-5 0	Total/NA	Solid	8021B	94615
880-50551-10	S-5 0.5	Total/NA	Solid	8021B	94615
880-50551-11	S-6 0	Total/NA	Solid	8021B	94615
880-50551-12	S-6 0.5	Total/NA	Solid	8021B	94615
880-50551-13	S-7 0	Total/NA	Solid	8021B	94615
880-50551-14	S-7 0.5	Total/NA	Solid	8021B	94615
880-50551-15	S-8 0	Total/NA	Solid	8021B	94615
880-50551-16	S-8 0.5	Total/NA	Solid	8021B	94615
880-50551-17	S-9 0	Total/NA	Solid	8021B	94615
880-50551-18	S-9 0.5	Total/NA	Solid	8021B	94615
MB 880-94584/5-A	Method Blank	Total/NA	Solid	8021B	94584
MB 880-94615/5-A	Method Blank	Total/NA	Solid	8021B	94615
LCS 880-94615/1-A	Lab Control Sample	Total/NA	Solid	8021B	94615
LCSD 880-94615/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	94615
880-50551-1 MS	S-1 0	Total/NA	Solid	8021B	94615
880-50551-1 MSD	S-1 0	Total/NA	Solid	8021B	94615

Prep Batch: 94584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-94584/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 94615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-1	S-1 0	Total/NA	Solid	5035	
880-50551-2	S-1 0.5	Total/NA	Solid	5035	
880-50551-3	S-2 0	Total/NA	Solid	5035	
880-50551-4	S-2 0.5	Total/NA	Solid	5035	
880-50551-5	S-3 0	Total/NA	Solid	5035	
880-50551-6	S-3 0.5	Total/NA	Solid	5035	
880-50551-7	S-4 0	Total/NA	Solid	5035	
880-50551-8	S-4 0.5	Total/NA	Solid	5035	
880-50551-9	S-5 0	Total/NA	Solid	5035	
880-50551-10	S-5 0.5	Total/NA	Solid	5035	
880-50551-11	S-6 0	Total/NA	Solid	5035	
880-50551-12	S-6 0.5	Total/NA	Solid	5035	
880-50551-13	S-7 0	Total/NA	Solid	5035	
880-50551-14	S-7 0.5	Total/NA	Solid	5035	
880-50551-15	S-8 0	Total/NA	Solid	5035	
880-50551-16	S-8 0.5	Total/NA	Solid	5035	
880-50551-17	S-9 0	Total/NA	Solid	5035	
880-50551-18	S-9 0.5	Total/NA	Solid	5035	
MB 880-94615/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-94615/1-A	Lab Control Sample	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

GC VOA (Continued)

Prep Batch: 94615 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-94615/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-50551-1 MS	S-1 0	Total/NA	Solid	5035	
880-50551-1 MSD	S-1 0	Total/NA	Solid	5035	

Analysis Batch: 94796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-1	S-1 0	Total/NA	Solid	Total BTEX	
880-50551-2	S-1 0.5	Total/NA	Solid	Total BTEX	
880-50551-3	S-2 0	Total/NA	Solid	Total BTEX	
880-50551-4	S-2 0.5	Total/NA	Solid	Total BTEX	
880-50551-5	S-3 0	Total/NA	Solid	Total BTEX	
880-50551-6	S-3 0.5	Total/NA	Solid	Total BTEX	
880-50551-7	S-4 0	Total/NA	Solid	Total BTEX	
880-50551-8	S-4 0.5	Total/NA	Solid	Total BTEX	
880-50551-9	S-5 0	Total/NA	Solid	Total BTEX	
880-50551-10	S-5 0.5	Total/NA	Solid	Total BTEX	
880-50551-11	S-6 0	Total/NA	Solid	Total BTEX	
880-50551-12	S-6 0.5	Total/NA	Solid	Total BTEX	
880-50551-13	S-7 0	Total/NA	Solid	Total BTEX	
880-50551-14	S-7 0.5	Total/NA	Solid	Total BTEX	
880-50551-15	S-8 0	Total/NA	Solid	Total BTEX	
880-50551-16	S-8 0.5	Total/NA	Solid	Total BTEX	
880-50551-17	S-9 0	Total/NA	Solid	Total BTEX	
880-50551-18	S-9 0.5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 94555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-1	S-1 0	Total/NA	Solid	8015B NM	94644
880-50551-2	S-1 0.5	Total/NA	Solid	8015B NM	94644
880-50551-3	S-2 0	Total/NA	Solid	8015B NM	94644
880-50551-4	S-2 0.5	Total/NA	Solid	8015B NM	94644
880-50551-5	S-3 0	Total/NA	Solid	8015B NM	94644
880-50551-6	S-3 0.5	Total/NA	Solid	8015B NM	94644
880-50551-7	S-4 0	Total/NA	Solid	8015B NM	94644
880-50551-8	S-4 0.5	Total/NA	Solid	8015B NM	94644
880-50551-9	S-5 0	Total/NA	Solid	8015B NM	94644
880-50551-10	S-5 0.5	Total/NA	Solid	8015B NM	94644
880-50551-11	S-6 0	Total/NA	Solid	8015B NM	94644
880-50551-12	S-6 0.5	Total/NA	Solid	8015B NM	94644
880-50551-13	S-7 0	Total/NA	Solid	8015B NM	94644
880-50551-14	S-7 0.5	Total/NA	Solid	8015B NM	94644
880-50551-15	S-8 0	Total/NA	Solid	8015B NM	94644
880-50551-16	S-8 0.5	Total/NA	Solid	8015B NM	94644
880-50551-18	S-9 0.5	Total/NA	Solid	8015B NM	94644
MB 880-94644/1-A	Method Blank	Total/NA	Solid	8015B NM	94644
LCS 880-94644/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	94644
LCSD 880-94644/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	94644
880-50551-1 MS	S-1 0	Total/NA	Solid	8015B NM	94644
880-50551-1 MSD	S-1 0	Total/NA	Solid	8015B NM	94644

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

GC Semi VOA

Prep Batch: 94644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-1	S-1 0	Total/NA	Solid	8015NM Prep	
880-50551-2	S-1 0.5	Total/NA	Solid	8015NM Prep	
880-50551-3	S-2 0	Total/NA	Solid	8015NM Prep	
880-50551-4	S-2 0.5	Total/NA	Solid	8015NM Prep	
880-50551-5	S-3 0	Total/NA	Solid	8015NM Prep	
880-50551-6	S-3 0.5	Total/NA	Solid	8015NM Prep	
880-50551-7	S-4 0	Total/NA	Solid	8015NM Prep	
880-50551-8	S-4 0.5	Total/NA	Solid	8015NM Prep	
880-50551-9	S-5 0	Total/NA	Solid	8015NM Prep	
880-50551-10	S-5 0.5	Total/NA	Solid	8015NM Prep	
880-50551-11	S-6 0	Total/NA	Solid	8015NM Prep	
880-50551-12	S-6 0.5	Total/NA	Solid	8015NM Prep	
880-50551-13	S-7 0	Total/NA	Solid	8015NM Prep	
880-50551-14	S-7 0.5	Total/NA	Solid	8015NM Prep	
880-50551-15	S-8 0	Total/NA	Solid	8015NM Prep	
880-50551-16	S-8 0.5	Total/NA	Solid	8015NM Prep	
880-50551-18	S-9 0.5	Total/NA	Solid	8015NM Prep	
MB 880-94644/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-94644/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-94644/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-50551-1 MS	S-1 0	Total/NA	Solid	8015NM Prep	
880-50551-1 MSD	S-1 0	Total/NA	Solid	8015NM Prep	

Prep Batch: 94754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-17	S-9 0	Total/NA	Solid	8015NM Prep	
MB 880-94754/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-94754/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-94754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-50551-17 MS	S-9 0	Total/NA	Solid	8015NM Prep	
880-50551-17 MSD	S-9 0	Total/NA	Solid	8015NM Prep	

Analysis Batch: 94773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-1	S-1 0	Total/NA	Solid	8015 NM	
880-50551-2	S-1 0.5	Total/NA	Solid	8015 NM	
880-50551-3	S-2 0	Total/NA	Solid	8015 NM	
880-50551-4	S-2 0.5	Total/NA	Solid	8015 NM	
880-50551-5	S-3 0	Total/NA	Solid	8015 NM	
880-50551-6	S-3 0.5	Total/NA	Solid	8015 NM	
880-50551-7	S-4 0	Total/NA	Solid	8015 NM	
880-50551-8	S-4 0.5	Total/NA	Solid	8015 NM	
880-50551-9	S-5 0	Total/NA	Solid	8015 NM	
880-50551-10	S-5 0.5	Total/NA	Solid	8015 NM	
880-50551-11	S-6 0	Total/NA	Solid	8015 NM	
880-50551-12	S-6 0.5	Total/NA	Solid	8015 NM	
880-50551-13	S-7 0	Total/NA	Solid	8015 NM	
880-50551-14	S-7 0.5	Total/NA	Solid	8015 NM	
880-50551-15	S-8 0	Total/NA	Solid	8015 NM	
880-50551-16	S-8 0.5	Total/NA	Solid	8015 NM	
880-50551-17	S-9 0	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

GC Semi VOA (Continued)

Analysis Batch: 94773 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-18	S-9 0.5	Total/NA	Solid	8015 NM	

Analysis Batch: 94995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-17	S-9 0	Total/NA	Solid	8015B NM	94754
MB 880-94754/1-A	Method Blank	Total/NA	Solid	8015B NM	94754
LCS 880-94754/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	94754
LCSD 880-94754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	94754
880-50551-17 MS	S-9 0	Total/NA	Solid	8015B NM	94754
880-50551-17 MSD	S-9 0	Total/NA	Solid	8015B NM	94754

HPLC/IC

Leach Batch: 94690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-1	S-1 0	Soluble	Solid	DI Leach	
880-50551-2	S-1 0.5	Soluble	Solid	DI Leach	
880-50551-3	S-2 0	Soluble	Solid	DI Leach	
880-50551-4	S-2 0.5	Soluble	Solid	DI Leach	
880-50551-5	S-3 0	Soluble	Solid	DI Leach	
880-50551-6	S-3 0.5	Soluble	Solid	DI Leach	
880-50551-7	S-4 0	Soluble	Solid	DI Leach	
880-50551-8	S-4 0.5	Soluble	Solid	DI Leach	
MB 880-94690/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-94690/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-94690/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 94691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-9	S-5 0	Soluble	Solid	DI Leach	
880-50551-10	S-5 0.5	Soluble	Solid	DI Leach	
880-50551-11	S-6 0	Soluble	Solid	DI Leach	
880-50551-12	S-6 0.5	Soluble	Solid	DI Leach	
880-50551-13	S-7 0	Soluble	Solid	DI Leach	
880-50551-14	S-7 0.5	Soluble	Solid	DI Leach	
880-50551-15	S-8 0	Soluble	Solid	DI Leach	
880-50551-16	S-8 0.5	Soluble	Solid	DI Leach	
880-50551-17	S-9 0	Soluble	Solid	DI Leach	
880-50551-18	S-9 0.5	Soluble	Solid	DI Leach	
MB 880-94691/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-94691/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-94691/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-50551-11 MS	S-6 0	Soluble	Solid	DI Leach	
880-50551-11 MSD	S-6 0	Soluble	Solid	DI Leach	

Analysis Batch: 94742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-1	S-1 0	Soluble	Solid	300.0	94690
880-50551-2	S-1 0.5	Soluble	Solid	300.0	94690
880-50551-3	S-2 0	Soluble	Solid	300.0	94690
880-50551-4	S-2 0.5	Soluble	Solid	300.0	94690

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

HPLC/IC (Continued)

Analysis Batch: 94742 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-5	S-3 0	Soluble	Solid	300.0	94690
880-50551-6	S-3 0.5	Soluble	Solid	300.0	94690
880-50551-7	S-4 0	Soluble	Solid	300.0	94690
880-50551-8	S-4 0.5	Soluble	Solid	300.0	94690
MB 880-94690/1-A	Method Blank	Soluble	Solid	300.0	94690
LCS 880-94690/2-A	Lab Control Sample	Soluble	Solid	300.0	94690
LCSD 880-94690/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	94690

Analysis Batch: 94746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50551-9	S-5 0	Soluble	Solid	300.0	94691
880-50551-10	S-5 0.5	Soluble	Solid	300.0	94691
880-50551-11	S-6 0	Soluble	Solid	300.0	94691
880-50551-12	S-6 0.5	Soluble	Solid	300.0	94691
880-50551-13	S-7 0	Soluble	Solid	300.0	94691
880-50551-14	S-7 0.5	Soluble	Solid	300.0	94691
880-50551-15	S-8 0	Soluble	Solid	300.0	94691
880-50551-16	S-8 0.5	Soluble	Solid	300.0	94691
880-50551-17	S-9 0	Soluble	Solid	300.0	94691
880-50551-18	S-9 0.5	Soluble	Solid	300.0	94691
MB 880-94691/1-A	Method Blank	Soluble	Solid	300.0	94691
LCS 880-94691/2-A	Lab Control Sample	Soluble	Solid	300.0	94691
LCSD 880-94691/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	94691
880-50551-11 MS	S-6 0	Soluble	Solid	300.0	94691
880-50551-11 MSD	S-6 0	Soluble	Solid	300.0	94691

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-1 0
Date Collected: 10/24/24 10:54
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-1
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	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/01/24 22:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/01/24 22:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 00:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 00:13	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	94690	11/02/24 17:00	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	94742	11/04/24 23:12	CH	EET MID

Client Sample ID: S-1 0.5
Date Collected: 10/24/24 10:59
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-2
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	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/01/24 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/01/24 23:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 01:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 01:02	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	94690	11/02/24 17:00	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	94742	11/04/24 23:26	CH	EET MID

Client Sample ID: S-2 0
Date Collected: 10/24/24 11:03
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/01/24 23:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/01/24 23:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 01:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 01:20	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	94690	11/02/24 17:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94742	11/04/24 23:31	CH	EET MID

Client Sample ID: S-2 0.5
Date Collected: 10/24/24 11:05
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-4
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	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/01/24 23:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/01/24 23:41	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-2 0.5
Date Collected: 10/24/24 11:05
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-4
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			94773	11/02/24 01:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 01:36	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	94690	11/02/24 17:00	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	94742	11/04/24 23:36	CH	EET MID

Client Sample ID: S-3 0
Date Collected: 10/24/24 11:07
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-5
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			4.91 g	5 mL	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 00:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 00:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 01:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 01:54	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	94690	11/02/24 17:00	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	94742	11/04/24 23:41	CH	EET MID

Client Sample ID: S-3 0.5
Date Collected: 10/24/24 11:11
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-6
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			5.05 g	5 mL	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 00:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 00:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 02:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 02:10	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	94690	11/02/24 17:00	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	94742	11/04/24 23:45	CH	EET MID

Client Sample ID: S-4 0
Date Collected: 10/24/24 11:12
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-7
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			5.03 g	5 mL	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 00:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 00:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 02:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 02:26	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-4 0

Lab Sample ID: 880-50551-7

Date Collected: 10/24/24 11:12

Matrix: Solid

Date Received: 11/01/24 09:05

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	94690	11/02/24 17:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94742	11/04/24 23:50	CH	EET MID

Client Sample ID: S-4 0.5

Lab Sample ID: 880-50551-8

Date Collected: 10/24/24 11:15

Matrix: Solid

Date Received: 11/01/24 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	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 01:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 01:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 02:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 02:42	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	94690	11/02/24 17:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94742	11/04/24 23:55	CH	EET MID

Client Sample ID: S-5 0

Lab Sample ID: 880-50551-9

Date Collected: 10/24/24 11:25

Matrix: Solid

Date Received: 11/01/24 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	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 01:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 01:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 02:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 02:59	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	94691	11/02/24 17:01	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	94746	11/04/24 18:08	CH	EET MID

Client Sample ID: S-5 0.5

Lab Sample ID: 880-50551-10

Date Collected: 10/24/24 11:29

Matrix: Solid

Date Received: 11/01/24 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	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 01:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 01:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 03:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 03:15	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	94691	11/02/24 17:01	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	94746	11/04/24 18:15	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-6 0
Date Collected: 10/24/24 11:33
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 03:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 03:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 03:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 03:48	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	94691	11/02/24 17:01	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	94746	11/04/24 18:21	CH	EET MID

Client Sample ID: S-6 0.5
Date Collected: 10/24/24 11:42
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-12
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	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 03:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 03:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 04:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 04:04	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	94691	11/02/24 17:01	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94746	11/04/24 18:41	CH	EET MID

Client Sample ID: S-7 0
Date Collected: 10/24/24 11:46
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 03:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 03:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 04:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 04:20	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	94691	11/02/24 17:01	CH	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	94746	11/04/24 18:47	CH	EET MID

Client Sample ID: S-7 0.5
Date Collected: 10/24/24 11:50
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 04:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 04:09	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-7 0.5
Date Collected: 10/24/24 11:50
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			94773	11/02/24 04:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 04:36	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	94691	11/02/24 17:01	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	94746	11/04/24 19:07	CH	EET MID

Client Sample ID: S-8 0
Date Collected: 10/24/24 11:54
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 04:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 04:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 04:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 04:52	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	94691	11/02/24 17:01	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	94746	11/04/24 19:14	CH	EET MID

Client Sample ID: S-8 0.5
Date Collected: 10/24/24 11:56
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 04:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 04:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 05:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 05:09	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	94691	11/02/24 17:01	CH	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	94746	11/04/24 19:20	CH	EET MID

Client Sample ID: S-9 0
Date Collected: 10/24/24 11:58
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 05:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 05:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/05/24 17:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	94754	11/04/24 09:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94995	11/05/24 17:50	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Client Sample ID: S-9 0
Date Collected: 10/24/24 11:58
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-17
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			4.95 g	50 mL	94691	11/02/24 17:01	CH	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	94746	11/04/24 19:27	CH	EET MID

Client Sample ID: S-9 0.5
Date Collected: 10/24/24 12:02
Date Received: 11/01/24 09:05

Lab Sample ID: 880-50551-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	94615	11/01/24 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94581	11/02/24 05:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94796	11/02/24 05:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			94773	11/02/24 05:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	94644	11/01/24 15:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94555	11/02/24 05:41	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	94691	11/02/24 17:01	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	94746	11/04/24 19:33	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: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

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	06-30-25
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: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

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: Gravitas SWD

Job ID: 880-50551-1
SDG: 24-0117-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-50551-1	S-1 0	Solid	10/24/24 10:54	11/01/24 09:05
880-50551-2	S-1 0.5	Solid	10/24/24 10:59	11/01/24 09:05
880-50551-3	S-2 0	Solid	10/24/24 11:03	11/01/24 09:05
880-50551-4	S-2 0.5	Solid	10/24/24 11:05	11/01/24 09:05
880-50551-5	S-3 0	Solid	10/24/24 11:07	11/01/24 09:05
880-50551-6	S-3 0.5	Solid	10/24/24 11:11	11/01/24 09:05
880-50551-7	S-4 0	Solid	10/24/24 11:12	11/01/24 09:05
880-50551-8	S-4 0.5	Solid	10/24/24 11:15	11/01/24 09:05
880-50551-9	S-5 0	Solid	10/24/24 11:25	11/01/24 09:05
880-50551-10	S-5 0.5	Solid	10/24/24 11:29	11/01/24 09:05
880-50551-11	S-6 0	Solid	10/24/24 11:33	11/01/24 09:05
880-50551-12	S-6 0.5	Solid	10/24/24 11:42	11/01/24 09:05
880-50551-13	S-7 0	Solid	10/24/24 11:46	11/01/24 09:05
880-50551-14	S-7 0.5	Solid	10/24/24 11:50	11/01/24 09:05
880-50551-15	S-8 0	Solid	10/24/24 11:54	11/01/24 09:05
880-50551-16	S-8 0.5	Solid	10/24/24 11:56	11/01/24 09:05
880-50551-17	S-9 0	Solid	10/24/24 11:58	11/01/24 09:05
880-50551-18	S-9 0.5	Solid	10/24/24 12:02	11/01/24 09:05



60551

No. 3363

11/6/2024

CHAIN-OF-CUSTODY

Arson & Associates, Inc. Environmental Consultants						507 N. Marienfeld, Ste. 202 Midland, TX 79701 432-687-0901						DATE: <u>11/1/2024</u> PAGE <u>1</u> OF <u>2</u> PO#: _____ LAB WORK ORDER#: _____ PROJECT LOCATION OR NAME: <u>GRAVITAS SWD</u> LAI PROJECT #: <u>24-0117-02</u> COLLECTOR: <u>DSG</u>													
Data Reported to:																									
TRRP report? ☐ Yes ☒ No		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		PRESERVATION		ANALYSES BTXES ☐ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ OIL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ TCIP - METALS (RCRA) ☐ TCIP - PEST ☐ HERB ☐ SEMI-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D.W. 200.8 ☐ T/CIP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ JTS ☐ % MOISTURE ☐ CYANIDE ☐ PH ☐ HEXAVALENT CHROMIUM ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐																	
TIME ZONE: Time zone/State: <u>MNT/NM</u>		Lab #		Date		Time																			
Field Sample I.D.																						FIELD NOTES			
S-1 0				11/24/24		1054		S		1								X		X		X			
S-1 0.5						1059																			
S-2 0						1103																			
S-2 0.5						1105																			
S-3 0						1107																			
S-3 0.5						1111																			
S-4 0						1113																			
S-4 0.5						1115																			
S-5 0						1125																			
S-5 0.5						1129																			
S-6 0						1133																			
S-6 0.5						1142																			
S-7 0						1146																			
S-7 0.5						1150																			
S-8 0						1154																			
TOTAL 15																									
RELINQUISHED BY: (Signature) <u>[Signature]</u> DATE/TIME <u>11/1/24 0905</u>						RECEIVED BY: (Signature) <u>[Signature]</u>						TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐						LABORATORY USE ONLY: RECEIVING TEMP: <u>29.28</u> THERM#: <u>IR8</u> CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # _____ ☐ HAND DELIVERED							
RELINQUISHED BY: (Signature) _____ DATE/TIME _____						RECEIVED BY: (Signature) _____																			
RELINQUISHED BY: (Signature) _____ DATE/TIME _____						RECEIVED BY: (Signature) _____																			
LABORATORY: _____																									

CHAIN-OF-CUSTODY

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-50551-1
SDG Number: 24-0117-02

Login Number: 50551
List Number: 1
Creator: Kramer, Jessica

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Brenda Balbino
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 1/3/2025 12:38:58 PM

JOB DESCRIPTION

Gravitas
24-0117-02

JOB NUMBER

880-52592-1

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
1/3/2025 12:38:58 PM

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

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Laboratory Job ID: 880-52592-1
SDG: 24-0117-02

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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.
☼	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: Gravitas

Job ID: 880-52592-1

Job ID: 880-52592-1

Eurofins Midland

Job Narrative
880-52592-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 12/23/2024 11:57 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -5.4°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-98785 and analytical batch 880-98922 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-98922 recovered under the lower control limit for Ethylbenzene and m,p-Xylenes. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 10' (880-52592-5) and S-11 0.5' (880-52592-7). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-98923 recovered above the upper control limit for Toluene. 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 880-98923/20).

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-98962/2-A) and (LCSD 880-98962/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98963 and analytical batch 880-99298 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: (880-52592-A-8-D MS) and (880-52592-A-8-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98964 and analytical batch 880-99300 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-98964/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-98964/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98964 and analytical batch 880-99300 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

Eurofins Midland

Case Narrative

Client: Larson & Associates, Inc.
Project: Gravitas

Job ID: 880-52592-1

Job ID: 880-52592-1 (Continued) Eurofins Midland

acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-99298 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-99298/21).

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-99300 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). 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 880-99300/21).

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 - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98878 and analytical batch 880-98953 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 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98881 and analytical batch 880-98951 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.

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-1 1'

Lab Sample ID: 880-52592-1

Date Collected: 12/17/24 12:50

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 13:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 13:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 13:29	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/26/24 09:36	12/27/24 13:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 13:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/26/24 09:36	12/27/24 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	12/26/24 09:36	12/27/24 13:29	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/26/24 09:36	12/27/24 13:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/27/24 13:29	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			01/01/25 02:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 13:55	01/01/25 02:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:55	01/01/25 02:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:55	01/01/25 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130	12/27/24 13:55	01/01/25 02:18	1
o-Terphenyl (Surr)	105		70 - 130	12/27/24 13:55	01/01/25 02:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.7		9.90	mg/Kg			12/30/24 15:25	1

Client Sample ID: S-1 3'

Lab Sample ID: 880-52592-2

Date Collected: 12/17/24 12:52

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 13:49	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:36	12/27/24 13:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:36	12/27/24 13:49	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		12/26/24 09:36	12/27/24 13:49	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:36	12/27/24 13:49	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/26/24 09:36	12/27/24 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	12/26/24 09:36	12/27/24 13:49	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/26/24 09:36	12/27/24 13:49	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-1 3'

Lab Sample ID: 880-52592-2

Date Collected: 12/17/24 12:52

Matrix: Solid

Date Received: 12/23/24 11:57

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			12/27/24 13:49	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			01/01/25 02:38	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	<49.9	U	49.9	mg/Kg		12/27/24 13:55	01/01/25 02:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 13:55	01/01/25 02:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 13:55	01/01/25 02:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130			12/27/24 13:55	01/01/25 02:38	1
o-Terphenyl (Surr)	100		70 - 130			12/27/24 13:55	01/01/25 02:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.7		9.96	mg/Kg			12/30/24 15:33	1

Client Sample ID: S-1 5'

Lab Sample ID: 880-52592-3

Date Collected: 12/17/24 12:54

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 14:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 14:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 14:09	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/26/24 09:36	12/27/24 14:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 14:09	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/26/24 09:36	12/27/24 14:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			12/26/24 09:36	12/27/24 14:09	1
1,4-Difluorobenzene (Surr)	108		70 - 130			12/26/24 09:36	12/27/24 14:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/27/24 14:09	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			01/01/25 02:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 13:55	01/01/25 02:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:55	01/01/25 02:59	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-1 5'

Lab Sample ID: 880-52592-3

Date Collected: 12/17/24 12:54

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/27/24 13:55	01/01/25 02:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			12/27/24 13:55	01/01/25 02:59	1
o-Terphenyl (Surr)	97		70 - 130			12/27/24 13:55	01/01/25 02:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.3		9.94	mg/Kg			12/30/24 15:41	1

Client Sample ID: S-1 7'

Lab Sample ID: 880-52592-4

Date Collected: 12/17/24 12:55

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 14:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 14:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 14:30	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/26/24 09:36	12/27/24 14:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 14:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/26/24 09:36	12/27/24 14:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			12/26/24 09:36	12/27/24 14:30	1
1,4-Difluorobenzene (Surr)	108		70 - 130			12/26/24 09:36	12/27/24 14:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/27/24 14:30	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			01/01/25 03:20	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		12/27/24 13:55	01/01/25 03:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 13:55	01/01/25 03:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/27/24 13:55	01/01/25 03:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130			12/27/24 13:55	01/01/25 03:20	1
o-Terphenyl (Surr)	100		70 - 130			12/27/24 13:55	01/01/25 03:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.7		9.92	mg/Kg			12/30/24 15:49	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-1 10'

Lab Sample ID: 880-52592-5

Date Collected: 12/17/24 12:56

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 14:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 14:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 14:50	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/26/24 09:36	12/27/24 14:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 14:50	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/26/24 09:36	12/27/24 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	12/26/24 09:36	12/27/24 14:50	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/26/24 09:36	12/27/24 14:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/27/24 14:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/01/25 03:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/27/24 13:55	01/01/25 03:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 13:55	01/01/25 03:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 13:55	01/01/25 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130	12/27/24 13:55	01/01/25 03:40	1
o-Terphenyl (Surr)	105		70 - 130	12/27/24 13:55	01/01/25 03:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.9		9.90	mg/Kg			12/30/24 16:12	1

Client Sample ID: S-11 0'

Lab Sample ID: 880-52592-6

Date Collected: 12/17/24 12:35

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 15:11	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:36	12/27/24 15:11	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:36	12/27/24 15:11	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		12/26/24 09:36	12/27/24 15:11	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:36	12/27/24 15:11	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/26/24 09:36	12/27/24 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/26/24 09:36	12/27/24 15:11	1
1,4-Difluorobenzene (Surr)	116		70 - 130	12/26/24 09:36	12/27/24 15:11	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-11 0'

Lab Sample ID: 880-52592-6

Date Collected: 12/17/24 12:35

Matrix: Solid

Date Received: 12/23/24 11:57

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			12/27/24 15:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/01/25 04:00	1

Method: 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		12/27/24 13:55	01/01/25 04:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:55	01/01/25 04:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:55	01/01/25 04:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130			12/27/24 13:55	01/01/25 04:00	1
o-Terphenyl (Surr)	106		70 - 130			12/27/24 13:55	01/01/25 04:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		9.90	mg/Kg			12/30/24 16:20	1

Client Sample ID: S-11 0.5'

Lab Sample ID: 880-52592-7

Date Collected: 12/17/24 12:36

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 15:31	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:36	12/27/24 15:31	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:36	12/27/24 15:31	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/26/24 09:36	12/27/24 15:31	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:36	12/27/24 15:31	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/26/24 09:36	12/27/24 15:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			12/26/24 09:36	12/27/24 15:31	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/26/24 09:36	12/27/24 15:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/27/24 15:31	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			01/01/25 04:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/27/24 13:55	01/01/25 04:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 13:55	01/01/25 04:21	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-11 0.5'

Lab Sample ID: 880-52592-7

Date Collected: 12/17/24 12:36

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/27/24 13:55	01/01/25 04:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			12/27/24 13:55	01/01/25 04:21	1
o-Terphenyl (Surr)	100		70 - 130			12/27/24 13:55	01/01/25 04:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		9.98	mg/Kg			12/30/24 16:28	1

Client Sample ID: S-2 1'

Lab Sample ID: 880-52592-8

Date Collected: 12/18/24 11:07

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 15:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 15:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 15:52	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/26/24 09:36	12/27/24 15:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 15:52	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/26/24 09:36	12/27/24 15:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			12/26/24 09:36	12/27/24 15:52	1
1,4-Difluorobenzene (Surr)	99		70 - 130			12/26/24 09:36	12/27/24 15:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/27/24 15:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/02/25 12:48	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	<49.9	U F1	49.9	mg/Kg		12/27/24 14:01	01/02/25 12:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	mg/Kg		12/27/24 14:01	01/02/25 12:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 14:01	01/02/25 12:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			12/27/24 14:01	01/02/25 12:48	1
o-Terphenyl (Surr)	77		70 - 130			12/27/24 14:01	01/02/25 12:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		9.92	mg/Kg			12/30/24 16:36	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-2 3'

Lab Sample ID: 880-52592-9

Date Collected: 12/18/24 11:08

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 16:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 16:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 16:12	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/26/24 09:36	12/27/24 16:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 16:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/26/24 09:36	12/27/24 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	12/26/24 09:36	12/27/24 16:12	1
1,4-Difluorobenzene (Surr)	111		70 - 130	12/26/24 09:36	12/27/24 16:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/27/24 16:12	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			01/02/25 13:35	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	50.0	mg/Kg		12/27/24 14:01	01/02/25 13:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 13:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130	12/27/24 14:01	01/02/25 13:35	1
o-Terphenyl (Surr)	77		70 - 130	12/27/24 14:01	01/02/25 13:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		10.1	mg/Kg			12/30/24 16:44	1

Client Sample ID: S-2 5'

Lab Sample ID: 880-52592-10

Date Collected: 12/18/24 11:09

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 16:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 16:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 16:32	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/26/24 09:36	12/27/24 16:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 16:32	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/26/24 09:36	12/27/24 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/26/24 09:36	12/27/24 16:32	1
1,4-Difluorobenzene (Surr)	98		70 - 130	12/26/24 09:36	12/27/24 16:32	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-2 5'

Lab Sample ID: 880-52592-10

Date Collected: 12/18/24 11:09

Matrix: Solid

Date Received: 12/23/24 11:57

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			12/27/24 16:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/02/25 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/27/24 14:01	01/02/25 13:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 14:01	01/02/25 13:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 14:01	01/02/25 13:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	80		70 - 130			12/27/24 14:01	01/02/25 13:52	1
o-Terphenyl (Surr)	78		70 - 130			12/27/24 14:01	01/02/25 13:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.6		9.96	mg/Kg			12/30/24 16:51	1

Client Sample ID: S-2 7'

Lab Sample ID: 880-52592-11

Date Collected: 12/18/24 11:10

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 18:22	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:36	12/27/24 18:22	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:36	12/27/24 18:22	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		12/26/24 09:36	12/27/24 18:22	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:36	12/27/24 18:22	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/26/24 09:36	12/27/24 18:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			12/26/24 09:36	12/27/24 18:22	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/26/24 09:36	12/27/24 18:22	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			12/27/24 18:22	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			01/02/25 14:09	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	<49.8	U	49.8	mg/Kg		12/27/24 14:01	01/02/25 14:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 14:01	01/02/25 14:09	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-2 7'

Lab Sample ID: 880-52592-11

Date Collected: 12/18/24 11:10

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/27/24 14:01	01/02/25 14:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130			12/27/24 14:01	01/02/25 14:09	1
o-Terphenyl (Surr)	77		70 - 130			12/27/24 14:01	01/02/25 14:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.2		9.96	mg/Kg			12/30/24 17:15	1

Client Sample ID: S-2 10'

Lab Sample ID: 880-52592-12

Date Collected: 12/18/24 11:11

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 18:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 18:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 18:43	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/26/24 09:36	12/27/24 18:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 18:43	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/26/24 09:36	12/27/24 18:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			12/26/24 09:36	12/27/24 18:43	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/26/24 09:36	12/27/24 18:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/27/24 18:43	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			01/02/25 14:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		12/27/24 14:01	01/02/25 14:25	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		12/27/24 14:01	01/02/25 14:25	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		12/27/24 14:01	01/02/25 14:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130			12/27/24 14:01	01/02/25 14:25	1
o-Terphenyl (Surr)	72		70 - 130			12/27/24 14:01	01/02/25 14:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		9.98	mg/Kg			12/30/24 17:23	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-3 1'

Lab Sample ID: 880-52592-13

Date Collected: 12/18/24 12:23

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 19:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 19:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 19:03	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/26/24 09:36	12/27/24 19:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 19:03	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/26/24 09:36	12/27/24 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/26/24 09:36	12/27/24 19:03	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/26/24 09:36	12/27/24 19:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/27/24 19:03	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			01/02/25 14:41	1

Method: 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		12/27/24 14:01	01/02/25 14:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 14:01	01/02/25 14:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/27/24 14:01	01/02/25 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	12/27/24 14:01	01/02/25 14:41	1
o-Terphenyl (Surr)	82		70 - 130	12/27/24 14:01	01/02/25 14:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	238		10.0	mg/Kg			12/30/24 17:46	1

Client Sample ID: S-3 3'

Lab Sample ID: 880-52592-14

Date Collected: 12/18/24 12:24

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 19:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 19:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 19:24	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/26/24 09:36	12/27/24 19:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 19:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/26/24 09:36	12/27/24 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/26/24 09:36	12/27/24 19:24	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/26/24 09:36	12/27/24 19:24	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-3 3'

Lab Sample ID: 880-52592-14

Date Collected: 12/18/24 12:24

Matrix: Solid

Date Received: 12/23/24 11:57

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			12/27/24 19:24	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			01/02/25 14:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		12/27/24 14:01	01/02/25 14:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		12/27/24 14:01	01/02/25 14:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		12/27/24 14:01	01/02/25 14:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			12/27/24 14:01	01/02/25 14:57	1
o-Terphenyl (Surr)	75		70 - 130			12/27/24 14:01	01/02/25 14:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		9.92	mg/Kg			12/30/24 17:54	1

Client Sample ID: S-3 5'

Lab Sample ID: 880-52592-15

Date Collected: 12/18/24 12:25

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 19:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:36	12/27/24 19:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:36	12/27/24 19:44	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/26/24 09:36	12/27/24 19:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:36	12/27/24 19:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/26/24 09:36	12/27/24 19:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			12/26/24 09:36	12/27/24 19:44	1
1,4-Difluorobenzene (Surr)	97		70 - 130			12/26/24 09:36	12/27/24 19:44	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			12/27/24 19:44	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			01/02/25 15:13	1

Method: 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		12/27/24 14:01	01/02/25 15:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 15:13	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-3 5'

Lab Sample ID: 880-52592-15

Date Collected: 12/18/24 12:25

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/27/24 14:01	01/02/25 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			12/27/24 14:01	01/02/25 15:13	1
o-Terphenyl (Surr)	75		70 - 130			12/27/24 14:01	01/02/25 15:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		9.90	mg/Kg			12/30/24 18:02	1

Client Sample ID: S-3 7'

Lab Sample ID: 880-52592-16

Date Collected: 12/18/24 12:26

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 20:05	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:36	12/27/24 20:05	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:36	12/27/24 20:05	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		12/26/24 09:36	12/27/24 20:05	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:36	12/27/24 20:05	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/26/24 09:36	12/27/24 20:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			12/26/24 09:36	12/27/24 20:05	1
1,4-Difluorobenzene (Surr)	101		70 - 130			12/26/24 09:36	12/27/24 20:05	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			12/27/24 20:05	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			01/02/25 15:29	1

Method: 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		12/27/24 14:01	01/02/25 15:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 14:01	01/02/25 15:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/27/24 14:01	01/02/25 15:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			12/27/24 14:01	01/02/25 15:29	1
o-Terphenyl (Surr)	75		70 - 130			12/27/24 14:01	01/02/25 15:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		9.90	mg/Kg			12/30/24 18:10	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-3 10'

Lab Sample ID: 880-52592-17

Date Collected: 12/18/24 12:27

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 20:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 20:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 20:25	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/26/24 09:36	12/27/24 20:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 20:25	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/26/24 09:36	12/27/24 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/26/24 09:36	12/27/24 20:25	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/26/24 09:36	12/27/24 20:25	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			12/27/24 20:25	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			01/02/25 15:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 15:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 15:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130	12/27/24 14:01	01/02/25 15:47	1
o-Terphenyl (Surr)	73		70 - 130	12/27/24 14:01	01/02/25 15:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.2		10.0	mg/Kg			12/27/24 19:26	1

Client Sample ID: S-5 1'

Lab Sample ID: 880-52592-18

Date Collected: 12/18/24 13:33

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 20:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 20:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 20:46	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/26/24 09:36	12/27/24 20:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:36	12/27/24 20:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/26/24 09:36	12/27/24 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/26/24 09:36	12/27/24 20:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/26/24 09:36	12/27/24 20:46	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-5 1'

Lab Sample ID: 880-52592-18

Date Collected: 12/18/24 13:33

Matrix: Solid

Date Received: 12/23/24 11:57

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			12/27/24 20:46	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			01/02/25 16:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		12/27/24 14:01	01/02/25 16:18	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		12/27/24 14:01	01/02/25 16:18	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		12/27/24 14:01	01/02/25 16:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			12/27/24 14:01	01/02/25 16:18	1
o-Terphenyl (Surr)	76		70 - 130			12/27/24 14:01	01/02/25 16:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	300		9.90	mg/Kg			12/27/24 19:43	1

Client Sample ID: S-5 3'

Lab Sample ID: 880-52592-19

Date Collected: 12/18/24 13:34

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 21:06	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:36	12/27/24 21:06	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:36	12/27/24 21:06	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/26/24 09:36	12/27/24 21:06	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:36	12/27/24 21:06	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/26/24 09:36	12/27/24 21:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			12/26/24 09:36	12/27/24 21:06	1
1,4-Difluorobenzene (Surr)	107		70 - 130			12/26/24 09:36	12/27/24 21:06	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			12/27/24 21:06	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			01/02/25 16:35	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	50.0	mg/Kg		12/27/24 14:01	01/02/25 16:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 16:35	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-5 3'

Lab Sample ID: 880-52592-19

Date Collected: 12/18/24 13:34

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/27/24 14:01	01/02/25 16:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			12/27/24 14:01	01/02/25 16:35	1
o-Terphenyl (Surr)	73		70 - 130			12/27/24 14:01	01/02/25 16:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	177		9.96	mg/Kg			12/27/24 19:49	1

Client Sample ID: S-5 5'

Lab Sample ID: 880-52592-20

Date Collected: 12/18/24 13:35

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:36	12/27/24 21:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 21:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 21:27	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/26/24 09:36	12/27/24 21:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 21:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/26/24 09:36	12/27/24 21:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			12/26/24 09:36	12/27/24 21:27	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/26/24 09:36	12/27/24 21:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/27/24 21:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/02/25 16:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/27/24 14:01	01/02/25 16:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 14:01	01/02/25 16:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 14:01	01/02/25 16:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130			12/27/24 14:01	01/02/25 16:51	1
o-Terphenyl (Surr)	73		70 - 130			12/27/24 14:01	01/02/25 16:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		10.1	mg/Kg			12/27/24 19:55	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-5 7'

Lab Sample ID: 880-52592-21

Date Collected: 12/18/24 13:36

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 12:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 12:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 12:56	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/26/24 09:37	12/27/24 12:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 12:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/26/24 09:37	12/27/24 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	12/26/24 09:37	12/27/24 12:56	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/26/24 09:37	12/27/24 12:56	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			12/27/24 12:56	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			01/02/25 17:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/27/24 14:01	01/02/25 17:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 14:01	01/02/25 17:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/27/24 14:01	01/02/25 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130	12/27/24 14:01	01/02/25 17:07	1
o-Terphenyl (Surr)	78		70 - 130	12/27/24 14:01	01/02/25 17:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.6		9.98	mg/Kg			12/27/24 20:00	1

Client Sample ID: S-5 10'

Lab Sample ID: 880-52592-22

Date Collected: 12/18/24 13:37

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 13:16	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:37	12/27/24 13:16	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:37	12/27/24 13:16	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		12/26/24 09:37	12/27/24 13:16	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:37	12/27/24 13:16	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/26/24 09:37	12/27/24 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	12/26/24 09:37	12/27/24 13:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/26/24 09:37	12/27/24 13:16	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-5 10'

Lab Sample ID: 880-52592-22

Date Collected: 12/18/24 13:37

Matrix: Solid

Date Received: 12/23/24 11:57

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			12/27/24 13:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/02/25 17:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 17:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 17:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 17:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	70		70 - 130			12/27/24 14:01	01/02/25 17:23	1
o-Terphenyl (Surr)	74		70 - 130			12/27/24 14:01	01/02/25 17:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.1		9.90	mg/Kg			12/27/24 20:18	1

Client Sample ID: S-12 0'

Lab Sample ID: 880-52592-23

Date Collected: 12/19/24 08:09

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 13:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 13:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 13:37	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/26/24 09:37	12/27/24 13:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 13:37	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/26/24 09:37	12/27/24 13:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			12/26/24 09:37	12/27/24 13:37	1
1,4-Difluorobenzene (Surr)	99		70 - 130			12/26/24 09:37	12/27/24 13:37	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			12/27/24 13:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3060		49.9	mg/Kg			01/02/25 17:39	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		12/27/24 14:01	01/02/25 17:39	1
Diesel Range Organics (Over C10-C28)	3060		49.9	mg/Kg		12/27/24 14:01	01/02/25 17:39	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-12 0'

Lab Sample ID: 880-52592-23

Date Collected: 12/19/24 08:09

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/27/24 14:01	01/02/25 17:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130			12/27/24 14:01	01/02/25 17:39	1
o-Terphenyl (Surr)	88		70 - 130			12/27/24 14:01	01/02/25 17:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26800		497	mg/Kg			12/27/24 20:23	50

Client Sample ID: S-12 0.5'

Lab Sample ID: 880-52592-24

Date Collected: 12/19/24 08:10

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 13:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 13:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 13:58	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/26/24 09:37	12/27/24 13:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 13:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/26/24 09:37	12/27/24 13:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			12/26/24 09:37	12/27/24 13:58	1
1,4-Difluorobenzene (Surr)	88		70 - 130			12/26/24 09:37	12/27/24 13:58	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			12/27/24 13:58	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			01/02/25 17:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/27/24 14:01	01/02/25 17:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 14:01	01/02/25 17:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 14:01	01/02/25 17:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130			12/27/24 14:01	01/02/25 17:56	1
o-Terphenyl (Surr)	75		70 - 130			12/27/24 14:01	01/02/25 17:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3430		200	mg/Kg			12/27/24 20:29	20

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-12 1

Lab Sample ID: 880-52592-25

Date Collected: 12/19/24 08:11

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 14:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 14:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 14:18	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/26/24 09:37	12/27/24 14:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 14:18	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/26/24 09:37	12/27/24 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	12/26/24 09:37	12/27/24 14:18	1
1,4-Difluorobenzene (Surr)	81		70 - 130	12/26/24 09:37	12/27/24 14:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/27/24 14:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/02/25 18:12	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	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 18:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 18:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	77		70 - 130	12/27/24 14:01	01/02/25 18:12	1
o-Terphenyl (Surr)	77		70 - 130	12/27/24 14:01	01/02/25 18:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3590		200	mg/Kg			12/27/24 20:35	20

Client Sample ID: S-12 3

Lab Sample ID: 880-52592-26

Date Collected: 12/19/24 08:12

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 14:39	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:37	12/27/24 14:39	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:37	12/27/24 14:39	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		12/26/24 09:37	12/27/24 14:39	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:37	12/27/24 14:39	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/26/24 09:37	12/27/24 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	12/26/24 09:37	12/27/24 14:39	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/26/24 09:37	12/27/24 14:39	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-12 3

Lab Sample ID: 880-52592-26

Date Collected: 12/19/24 08:12

Matrix: Solid

Date Received: 12/23/24 11:57

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			12/27/24 14:39	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			01/02/25 18:29	1

Method: 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		12/27/24 14:01	01/02/25 18:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 14:01	01/02/25 18:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/27/24 14:01	01/02/25 18:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130			12/27/24 14:01	01/02/25 18:29	1
o-Terphenyl (Surr)	74		70 - 130			12/27/24 14:01	01/02/25 18:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2650		198	mg/Kg			12/27/24 20:41	20

Client Sample ID: S-12 5

Lab Sample ID: 880-52592-27

Date Collected: 12/19/24 08:13

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 14:59	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:37	12/27/24 14:59	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:37	12/27/24 14:59	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/26/24 09:37	12/27/24 14:59	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:37	12/27/24 14:59	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/26/24 09:37	12/27/24 14:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			12/26/24 09:37	12/27/24 14:59	1
1,4-Difluorobenzene (Surr)	96		70 - 130			12/26/24 09:37	12/27/24 14:59	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			12/27/24 14:59	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			01/02/25 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	<49.8	U	49.8	mg/Kg		12/27/24 14:01	01/02/25 18:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 14:01	01/02/25 18:45	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-12 5

Lab Sample ID: 880-52592-27

Date Collected: 12/19/24 08:13

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/27/24 14:01	01/02/25 18:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	78		70 - 130			12/27/24 14:01	01/02/25 18:45	1
o-Terphenyl (Surr)	76		70 - 130			12/27/24 14:01	01/02/25 18:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160	F1	49.6	mg/Kg			12/27/24 20:46	5

Client Sample ID: S-12 7

Lab Sample ID: 880-52592-28

Date Collected: 12/19/24 09:07

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 15:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 15:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 15:20	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/26/24 09:37	12/27/24 15:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 15:20	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/26/24 09:37	12/27/24 15:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			12/26/24 09:37	12/27/24 15:20	1
1,4-Difluorobenzene (Surr)	92		70 - 130			12/26/24 09:37	12/27/24 15:20	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			12/27/24 15:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/02/25 12:48	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	<49.8	U F1	49.8	mg/Kg		12/27/24 14:03	01/02/25 12:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 14:03	01/02/25 12:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/27/24 14:03	01/02/25 12:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			12/27/24 14:03	01/02/25 12:48	1
o-Terphenyl (Surr)	109		70 - 130			12/27/24 14:03	01/02/25 12:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		99.6	mg/Kg			12/27/24 21:04	10

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-12 10

Lab Sample ID: 880-52592-29

Date Collected: 12/19/24 09:08

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 15:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 15:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 15:40	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/26/24 09:37	12/27/24 15:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 15:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/26/24 09:37	12/27/24 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	12/26/24 09:37	12/27/24 15:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/26/24 09:37	12/27/24 15:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/27/24 15:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/02/25 13:35	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	50.0	mg/Kg		12/27/24 14:03	01/02/25 13:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 13:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	12/27/24 14:03	01/02/25 13:35	1
o-Terphenyl (Surr)	107		70 - 130	12/27/24 14:03	01/02/25 13:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	194		9.90	mg/Kg			12/30/24 19:36	1

Client Sample ID: S-14 0'

Lab Sample ID: 880-52592-30

Date Collected: 12/19/24 09:44

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 16:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 16:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 16:01	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/26/24 09:37	12/27/24 16:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 16:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/26/24 09:37	12/27/24 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	12/26/24 09:37	12/27/24 16:01	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/26/24 09:37	12/27/24 16:01	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-14 0'

Lab Sample ID: 880-52592-30

Date Collected: 12/19/24 09:44

Matrix: Solid

Date Received: 12/23/24 11:57

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			12/27/24 16:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/02/25 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/27/24 14:03	01/02/25 13:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 14:03	01/02/25 13:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/27/24 14:03	01/02/25 13:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130			12/27/24 14:03	01/02/25 13:52	1
o-Terphenyl (Surr)	103		70 - 130			12/27/24 14:03	01/02/25 13:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220		9.92	mg/Kg			12/30/24 20:00	1

Client Sample ID: S-14 0.5'

Lab Sample ID: 880-52592-31

Date Collected: 12/19/24 09:45

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 17:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:37	12/27/24 17:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:37	12/27/24 17:25	1
m,p-Xylenes	<0.00404	U	0.00404	mg/Kg		12/26/24 09:37	12/27/24 17:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:37	12/27/24 17:25	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/26/24 09:37	12/27/24 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			12/26/24 09:37	12/27/24 17:25	1
1,4-Difluorobenzene (Surr)	93		70 - 130			12/26/24 09:37	12/27/24 17:25	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			12/27/24 17:25	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			01/02/25 14:09	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	<49.7	U	49.7	mg/Kg		12/27/24 14:03	01/02/25 14:09	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		12/27/24 14:03	01/02/25 14:09	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-14 0.5'

Lab Sample ID: 880-52592-31

Date Collected: 12/19/24 09:45

Matrix: Solid

Date Received: 12/23/24 11:57

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)	<49.7	U	49.7	mg/Kg		12/27/24 14:03	01/02/25 14:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130			12/27/24 14:03	01/02/25 14:09	1
o-Terphenyl (Surr)	101		70 - 130			12/27/24 14:03	01/02/25 14:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208	F1	9.96	mg/Kg			12/28/24 00:27	1

Client Sample ID: S-10 0'

Lab Sample ID: 880-52592-32

Date Collected: 12/19/24 10:21

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 17:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 17:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 17:46	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		12/26/24 09:37	12/27/24 17:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 17:46	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/26/24 09:37	12/27/24 17:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			12/26/24 09:37	12/27/24 17:46	1
1,4-Difluorobenzene (Surr)	94		70 - 130			12/26/24 09:37	12/27/24 17:46	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			12/27/24 17:46	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			01/02/25 14:25	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		12/27/24 14:03	01/02/25 14:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 14:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 14:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			12/27/24 14:03	01/02/25 14:25	1
o-Terphenyl (Surr)	107		70 - 130			12/27/24 14:03	01/02/25 14:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.9		9.92	mg/Kg			12/28/24 00:45	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-10 0.5'

Lab Sample ID: 880-52592-33

Date Collected: 12/19/24 10:22

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 18:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 18:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 18:06	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/26/24 09:37	12/27/24 18:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 18:06	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/26/24 09:37	12/27/24 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	12/26/24 09:37	12/27/24 18:06	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/26/24 09:37	12/27/24 18:06	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			12/27/24 18:06	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			01/02/25 14:41	1

Method: 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		12/27/24 14:03	01/02/25 14:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 14:03	01/02/25 14:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/27/24 14:03	01/02/25 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	12/27/24 14:03	01/02/25 14:41	1
o-Terphenyl (Surr)	101		70 - 130	12/27/24 14:03	01/02/25 14:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.7		9.96	mg/Kg			12/28/24 00:51	1

Client Sample ID: S-7 1'

Lab Sample ID: 880-52592-34

Date Collected: 12/19/24 12:15

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 18:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 18:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 18:27	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/26/24 09:37	12/27/24 18:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 18:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/26/24 09:37	12/27/24 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	12/26/24 09:37	12/27/24 18:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/26/24 09:37	12/27/24 18:27	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-7 1'

Lab Sample ID: 880-52592-34

Date Collected: 12/19/24 12:15

Matrix: Solid

Date Received: 12/23/24 11:57

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			12/27/24 18:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/02/25 14:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/27/24 14:03	01/02/25 14:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 14:03	01/02/25 14:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/27/24 14:03	01/02/25 14:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			12/27/24 14:03	01/02/25 14:57	1
o-Terphenyl (Surr)	104		70 - 130			12/27/24 14:03	01/02/25 14:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		100	mg/Kg			12/28/24 00:57	10

Client Sample ID: S-7 3'

Lab Sample ID: 880-52592-35

Date Collected: 12/19/24 12:18

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 18:47	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:37	12/27/24 18:47	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:37	12/27/24 18:47	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/26/24 09:37	12/27/24 18:47	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:37	12/27/24 18:47	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/26/24 09:37	12/27/24 18:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			12/26/24 09:37	12/27/24 18:47	1
1,4-Difluorobenzene (Surr)	96		70 - 130			12/26/24 09:37	12/27/24 18:47	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			12/27/24 18:47	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			01/02/25 15:13	1

Method: 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		12/27/24 14:03	01/02/25 15:13	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		12/27/24 14:03	01/02/25 15:13	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-7 3'

Lab Sample ID: 880-52592-35

Date Collected: 12/19/24 12:18

Matrix: Solid

Date Received: 12/23/24 11:57

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)	<49.7	U	49.7	mg/Kg		12/27/24 14:03	01/02/25 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			12/27/24 14:03	01/02/25 15:13	1
o-Terphenyl (Surr)	105		70 - 130			12/27/24 14:03	01/02/25 15:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	301		10.0	mg/Kg			12/28/24 01:03	1

Client Sample ID: S-8 1'

Lab Sample ID: 880-52592-36

Date Collected: 12/19/24 13:17

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 19:08	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:37	12/27/24 19:08	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:37	12/27/24 19:08	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		12/26/24 09:37	12/27/24 19:08	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/26/24 09:37	12/27/24 19:08	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/26/24 09:37	12/27/24 19:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			12/26/24 09:37	12/27/24 19:08	1
1,4-Difluorobenzene (Surr)	94		70 - 130			12/26/24 09:37	12/27/24 19:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/27/24 19:08	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			01/02/25 15:29	1

Method: 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		12/27/24 14:03	01/02/25 15:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 15:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 15:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			12/27/24 14:03	01/02/25 15:29	1
o-Terphenyl (Surr)	104		70 - 130			12/27/24 14:03	01/02/25 15:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2650		99.4	mg/Kg			12/28/24 01:20	10

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-8 3'

Lab Sample ID: 880-52592-37

Date Collected: 12/19/24 13:26

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 19:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 19:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 19:28	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		12/26/24 09:37	12/27/24 19:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 19:28	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/26/24 09:37	12/27/24 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	12/26/24 09:37	12/27/24 19:28	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/26/24 09:37	12/27/24 19:28	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			12/27/24 19:28	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			01/02/25 15:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 15:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 15:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	12/27/24 14:03	01/02/25 15:47	1
o-Terphenyl (Surr)	106		70 - 130	12/27/24 14:03	01/02/25 15:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	391		9.90	mg/Kg			12/28/24 01:26	1

Client Sample ID: S-9 1'

Lab Sample ID: 880-52592-38

Date Collected: 12/20/24 08:50

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 19:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 19:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 19:49	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/26/24 09:37	12/27/24 19:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/26/24 09:37	12/27/24 19:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/26/24 09:37	12/27/24 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	12/26/24 09:37	12/27/24 19:49	1
1,4-Difluorobenzene (Surr)	85		70 - 130	12/26/24 09:37	12/27/24 19:49	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-9 1'

Lab Sample ID: 880-52592-38

Date Collected: 12/20/24 08:50

Matrix: Solid

Date Received: 12/23/24 11:57

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			12/27/24 19:49	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			01/02/25 16:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/27/24 14:03	01/02/25 16:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 14:03	01/02/25 16:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 14:03	01/02/25 16:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			12/27/24 14:03	01/02/25 16:18	1
o-Terphenyl (Surr)	114		70 - 130			12/27/24 14:03	01/02/25 16:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5350		199	mg/Kg			12/28/24 01:32	20

Client Sample ID: S-9 3'

Lab Sample ID: 880-52592-39

Date Collected: 12/20/24 09:05

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 20:09	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:37	12/27/24 20:09	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:37	12/27/24 20:09	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/26/24 09:37	12/27/24 20:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/26/24 09:37	12/27/24 20:09	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/26/24 09:37	12/27/24 20:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			12/26/24 09:37	12/27/24 20:09	1
1,4-Difluorobenzene (Surr)	79		70 - 130			12/26/24 09:37	12/27/24 20:09	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			12/27/24 20:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/02/25 16:35	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	<49.9	U	49.9	mg/Kg		12/27/24 14:03	01/02/25 16:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 14:03	01/02/25 16:35	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-9 3'

Lab Sample ID: 880-52592-39

Date Collected: 12/20/24 09:05

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/27/24 14:03	01/02/25 16:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130			12/27/24 14:03	01/02/25 16:35	1
o-Terphenyl (Surr)	100		70 - 130			12/27/24 14:03	01/02/25 16:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1490		99.8	mg/Kg			12/28/24 01:38	10

Client Sample ID: S-13 0'

Lab Sample ID: 880-52592-40

Date Collected: 12/20/24 10:04

Matrix: Solid

Date Received: 12/23/24 11:57

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		12/26/24 09:37	12/27/24 20:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 20:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 20:30	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/26/24 09:37	12/27/24 20:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 20:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/26/24 09:37	12/27/24 20:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			12/26/24 09:37	12/27/24 20:30	1
1,4-Difluorobenzene (Surr)	91		70 - 130			12/26/24 09:37	12/27/24 20:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/27/24 20:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/02/25 16:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/27/24 14:03	01/02/25 16:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 14:03	01/02/25 16:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 14:03	01/02/25 16:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			12/27/24 14:03	01/02/25 16:51	1
o-Terphenyl (Surr)	108		70 - 130			12/27/24 14:03	01/02/25 16:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		10.0	mg/Kg			12/28/24 01:44	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-13 0.5'

Lab Sample ID: 880-52592-41

Date Collected: 12/20/24 10:07

Matrix: Solid

Date Received: 12/23/24 11:57

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/27/24 09:29	12/30/24 17:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/27/24 09:29	12/30/24 17:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/27/24 09:29	12/30/24 17:32	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		12/27/24 09:29	12/30/24 17:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/27/24 09:29	12/30/24 17:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/27/24 09:29	12/30/24 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/27/24 09:29	12/30/24 17:32	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/24 09:29	12/30/24 17:32	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			12/30/24 17:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/02/25 17:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 17:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 17:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	12/27/24 14:03	01/02/25 17:07	1
o-Terphenyl (Surr)	105		70 - 130	12/27/24 14:03	01/02/25 17:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106	F1	9.96	mg/Kg			12/28/24 01:50	1

Client Sample ID: S-9 5'

Lab Sample ID: 880-52592-42

Date Collected: 12/20/24 09:40

Matrix: Solid

Date Received: 12/23/24 11:57

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/27/24 09:29	12/30/24 17:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/27/24 09:29	12/30/24 17:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/27/24 09:29	12/30/24 17:52	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		12/27/24 09:29	12/30/24 17:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/27/24 09:29	12/30/24 17:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/27/24 09:29	12/30/24 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/27/24 09:29	12/30/24 17:52	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/24 09:29	12/30/24 17:52	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-9 5'
Date Collected: 12/20/24 09:40
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-42
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/30/24 17:52	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8	mg/Kg			01/02/25 17:23	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/27/24 14:03	01/02/25 17:23	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 14:03	01/02/25 17:23	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/27/24 14:03	01/02/25 17:23	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	99		70 - 130			12/27/24 14:03	01/02/25 17:23	1	
o-Terphenyl (Surr)	108		70 - 130			12/27/24 14:03	01/02/25 17:23	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	117		9.98	mg/Kg			12/28/24 02:07	1	

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

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)
880-52592-1	S-1 1'	100	100
880-52592-1 MS	S-1 1'	123	99
880-52592-1 MSD	S-1 1'	132 S1+	102
880-52592-2	S-1 3'	122	104
880-52592-3	S-1 5'	114	108
880-52592-4	S-1 7'	125	108
880-52592-5	S-1 10'	131 S1+	103
880-52592-6	S-11 0'	120	116
880-52592-7	S-11 0.5'	133 S1+	102
880-52592-8	S-2 1'	124	99
880-52592-9	S-2 3'	129	111
880-52592-10	S-2 5'	120	98
880-52592-11	S-2 7'	100	95
880-52592-12	S-2 10'	113	100
880-52592-13	S-3 1'	117	107
880-52592-14	S-3 3'	126	100
880-52592-15	S-3 5'	127	97
880-52592-16	S-3 7'	122	101
880-52592-17	S-3 10'	126	105
880-52592-18	S-5 1'	124	101
880-52592-19	S-5 3'	126	107
880-52592-20	S-5 5'	125	102
880-52592-21	S-5 7'	87	93
880-52592-21 MS	S-5 7'	108	101
880-52592-21 MSD	S-5 7'	102	109
880-52592-22	S-5 10'	89	96
880-52592-23	S-12 0'	88	99
880-52592-24	S-12 0.5'	92	88
880-52592-25	S-12 1	92	81
880-52592-26	S-12 3	84	94
880-52592-27	S-12 5	90	96
880-52592-28	S-12 7	77	92
880-52592-29	S-12 10	87	93
880-52592-30	S-14 0'	86	95
880-52592-31	S-14 0.5'	84	93
880-52592-32	S-10 0'	86	94
880-52592-33	S-10 0.5'	89	96
880-52592-34	S-7 1'	86	96
880-52592-35	S-7 3'	87	96
880-52592-36	S-8 1'	90	94
880-52592-37	S-8 3'	88	96
880-52592-38	S-9 1'	98	85
880-52592-39	S-9 3'	97	79
880-52592-40	S-13 0'	84	91
880-52592-41	S-13 0.5'	112	106
880-52592-42	S-9 5'	116	106
LCS 880-98785/1-A	Lab Control Sample	107	102
LCS 880-98787/1-A	Lab Control Sample	114	113
LCS 880-98915/1-A	Lab Control Sample	108	104

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-52592-1

Project/Site: Gravitas

SDG: 24-0117-02

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)
LCSD 880-98785/2-A	Lab Control Sample Dup	111	104
LCSD 880-98787/2-A	Lab Control Sample Dup	103	110
LCSD 880-98915/2-A	Lab Control Sample Dup	107	103
MB 880-98785/5-A	Method Blank	153 S1+	83
MB 880-98787/5-A	Method Blank	76	92
MB 880-98915/5-A	Method Blank	108	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)
880-52592-1	S-1 1'	87	105
880-52592-2	S-1 3'	83	100
880-52592-3	S-1 5'	79	97
880-52592-4	S-1 7'	84	100
880-52592-5	S-1 10'	85	105
880-52592-6	S-11 0'	88	106
880-52592-7	S-11 0.5'	80	100
880-52592-8	S-2 1'	77	77
880-52592-8 MS	S-2 1'	69 S1-	70
880-52592-8 MSD	S-2 1'	69 S1-	71
880-52592-9	S-2 3'	78	77
880-52592-10	S-2 5'	80	78
880-52592-11	S-2 7'	79	77
880-52592-12	S-2 10'	73	72
880-52592-13	S-3 1'	82	82
880-52592-14	S-3 3'	76	75
880-52592-15	S-3 5'	76	75
880-52592-16	S-3 7'	78	75
880-52592-17	S-3 10'	75	73
880-52592-18	S-5 1'	77	76
880-52592-19	S-5 3'	76	73
880-52592-20	S-5 5'	73	73
880-52592-21	S-5 7'	78	78
880-52592-22	S-5 10'	70	74
880-52592-23	S-12 0'	76	88
880-52592-24	S-12 0.5'	77	75
880-52592-25	S-12 1	77	77
880-52592-26	S-12 3	75	74
880-52592-27	S-12 5	78	76
880-52592-28	S-12 7	105	109
880-52592-28 MS	S-12 7	89	97
880-52592-28 MSD	S-12 7	104	98
880-52592-29	S-12 10	103	107
880-52592-30	S-14 0'	99	103

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Surrogate Summary

Client: Larson & Associates, Inc.

Job ID: 880-52592-1

Project/Site: Gravitas

SDG: 24-0117-02

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)
880-52592-31	S-14 0.5'	97	101
880-52592-32	S-10 0'	102	107
880-52592-33	S-10 0.5'	99	101
880-52592-34	S-7 1'	101	104
880-52592-35	S-7 3'	100	105
880-52592-36	S-8 1'	100	104
880-52592-37	S-8 3'	102	106
880-52592-38	S-9 1'	108	114
880-52592-39	S-9 3'	96	100
880-52592-40	S-13 0'	102	108
880-52592-41	S-13 0.5'	101	105
880-52592-42	S-9 5'	99	108
LCS 880-98962/2-A	Lab Control Sample	136 S1+	148 S1+
LCS 880-98963/2-A	Lab Control Sample	106	108
LCS 880-98964/2-A	Lab Control Sample	127	137 S1+
LCSD 880-98962/3-A	Lab Control Sample Dup	149 S1+	165 S1+
LCSD 880-98963/3-A	Lab Control Sample Dup	110	111
LCSD 880-98964/3-A	Lab Control Sample Dup	137 S1+	146 S1+
MB 880-98962/1-A	Method Blank	95	110
MB 880-98963/1-A	Method Blank	89	86
MB 880-98964/1-A	Method Blank	133 S1+	136 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98785/5-A

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98785

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 13:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 13:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 13:00	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/26/24 09:36	12/27/24 13:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:36	12/27/24 13:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/26/24 09:36	12/27/24 13:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130	12/26/24 09:36	12/27/24 13:00	1
1,4-Difluorobenzene (Surr)	83		70 - 130	12/26/24 09:36	12/27/24 13:00	1

Lab Sample ID: LCS 880-98785/1-A

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1084		mg/Kg		108	70 - 130
Toluene	0.100	0.1043		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.08868		mg/Kg		89	70 - 130
m,p-Xylenes	0.200	0.1931		mg/Kg		97	70 - 130
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-98785/2-A

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98785

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1086		mg/Kg		109	70 - 130	0	35
Toluene	0.100	0.1040		mg/Kg		104	70 - 130	0	35
Ethylbenzene	0.100	0.09411		mg/Kg		94	70 - 130	6	35
m,p-Xylenes	0.200	0.2074		mg/Kg		104	70 - 130	7	35
o-Xylene	0.100	0.1192		mg/Kg		119	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-52592-1 MS

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: S-1 1'

Prep Type: Total/NA

Prep Batch: 98785

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09504		mg/Kg		95	70 - 130
Toluene	<0.00199	U	0.0996	0.09521		mg/Kg		96	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

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

Lab Sample ID: 880-52592-1 MS

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: S-1 1'

Prep Type: Total/NA

Prep Batch: 98785

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.09496		mg/Kg		95	70 - 130
m,p-Xylenes	<0.00398	U	0.199	0.2140		mg/Kg		107	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1117		mg/Kg		112	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	123		70 - 130						
1,4-Difluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: 880-52592-1 MSD

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: S-1 1'

Prep Type: Total/NA

Prep Batch: 98785

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1055		mg/Kg		105	70 - 130	10	35
Toluene	<0.00199	U	0.101	0.1021		mg/Kg		101	70 - 130	7	35
Ethylbenzene	<0.00199	U	0.101	0.1038		mg/Kg		103	70 - 130	9	35
m,p-Xylenes	<0.00398	U	0.202	0.2486		mg/Kg		123	70 - 130	15	35
o-Xylene	<0.00199	U	0.101	0.1312		mg/Kg		130	70 - 130	16	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

Lab Sample ID: MB 880-98787/5-A

Matrix: Solid

Analysis Batch: 98923

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98787

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 12:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 12:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 12:34	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/26/24 09:37	12/27/24 12:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/26/24 09:37	12/27/24 12:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/26/24 09:37	12/27/24 12:34	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130			12/26/24 09:37	12/27/24 12:34	1
1,4-Difluorobenzene (Surr)	92		70 - 130			12/26/24 09:37	12/27/24 12:34	1

Lab Sample ID: LCS 880-98787/1-A

Matrix: Solid

Analysis Batch: 98923

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1046		mg/Kg		105	70 - 130
Toluene	0.100	0.1083		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1179		mg/Kg		118	70 - 130
m,p-Xylenes	0.200	0.2267		mg/Kg		113	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

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

Lab Sample ID: LCS 880-98787/1-A

Matrix: Solid

Analysis Batch: 98923

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1097		mg/Kg		110	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 880-98787/2-A

Matrix: Solid

Analysis Batch: 98923

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98787

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1068		mg/Kg		107	70 - 130	2	35
Toluene	0.100	0.1066		mg/Kg		107	70 - 130	2	35
Ethylbenzene	0.100	0.1057		mg/Kg		106	70 - 130	11	35
m,p-Xylenes	0.200	0.2118		mg/Kg		106	70 - 130	7	35
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-52592-21 MS

Matrix: Solid

Analysis Batch: 98923

Client Sample ID: S-5 7'

Prep Type: Total/NA

Prep Batch: 98787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09441		mg/Kg		95	70 - 130
Toluene	<0.00199	U	0.0996	0.09892		mg/Kg		99	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1017		mg/Kg		102	70 - 130
m,p-Xylenes	<0.00398	U	0.199	0.1998		mg/Kg		100	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09703		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-52592-21 MSD

Matrix: Solid

Analysis Batch: 98923

Client Sample ID: S-5 7'

Prep Type: Total/NA

Prep Batch: 98787

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1021		mg/Kg		101	70 - 130	8	35
Toluene	<0.00199	U	0.101	0.1034		mg/Kg		103	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.101	0.1052		mg/Kg		104	70 - 130	3	35
m,p-Xylenes	<0.00398	U	0.202	0.2038		mg/Kg		101	70 - 130	2	35
o-Xylene	<0.00199	U	0.101	0.09808		mg/Kg		97	70 - 130	1	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

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

Lab Sample ID: 880-52592-21 MSD

Matrix: Solid

Analysis Batch: 98923

Client Sample ID: S-5 7'

Prep Type: Total/NA

Prep Batch: 98787

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-98915/5-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98915

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/27/24 09:29	12/30/24 12:11	1	
Toluene	<0.00200	U	0.00200	mg/Kg		12/27/24 09:29	12/30/24 12:11	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/27/24 09:29	12/30/24 12:11	1	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		12/27/24 09:29	12/30/24 12:11	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/27/24 09:29	12/30/24 12:11	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/27/24 09:29	12/30/24 12:11	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	108		70 - 130	12/27/24 09:29	12/30/24 12:11	1			
1,4-Difluorobenzene (Surr)	102		70 - 130	12/27/24 09:29	12/30/24 12:11	1			

Lab Sample ID: LCS 880-98915/1-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98915

Analyte	Spike	LCS	LCS					%Rec	
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.08157		mg/Kg		82	70 - 130		
Toluene	0.100	0.08119		mg/Kg		81	70 - 130		
Ethylbenzene	0.100	0.07901		mg/Kg		79	70 - 130		
m,p-Xylenes	0.200	0.1593		mg/Kg		80	70 - 130		
o-Xylene	0.100	0.08602		mg/Kg		86	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-98915/2-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98915

Analyte	Spike	LCSD	LCSD					%Rec		RPD
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09210		mg/Kg		92	70 - 130	12	35	
Toluene	0.100	0.09059		mg/Kg		91	70 - 130	11	35	
Ethylbenzene	0.100	0.08775		mg/Kg		88	70 - 130	10	35	
m,p-Xylenes	0.200	0.1772		mg/Kg		89	70 - 130	11	35	
o-Xylene	0.100	0.09422		mg/Kg		94	70 - 130	9	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

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

Lab Sample ID: LCSD 880-98915/2-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98915

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

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

Lab Sample ID: MB 880-98962/1-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98962

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 13:55	12/31/24 19:49	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:55	12/31/24 19:49	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:55	12/31/24 19:49	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
1-Chlorooctane (Surr)	95		70 - 130			12/27/24 13:55	12/31/24 19:49	1	
o-Terphenyl (Surr)	110		70 - 130			12/27/24 13:55	12/31/24 19:49	1	

Lab Sample ID: LCS 880-98962/2-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98962

Analyte	Spike	LCS	LCS					%Rec	
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	877.4		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	953.8		mg/Kg		95	70 - 130		
Surrogate		%Recovery	Qualifier	Limits					
1-Chlorooctane (Surr)		136	S1+	70 - 130					
o-Terphenyl (Surr)		148	S1+	70 - 130					

Lab Sample ID: LCSD 880-98962/3-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98962

Analyte	Spike	LCSD	LCSD				%Rec		RPD
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	943.1		mg/Kg		94	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1077		mg/Kg		108	70 - 130	12	20
Surrogate		%Recovery	Qualifier	Limits					
1-Chlorooctane (Surr)		149	S1+	70 - 130					
o-Terphenyl (Surr)		165	S1+	70 - 130					

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

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

Lab Sample ID: MB 880-98963/1-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98963

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 09:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 09:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 14:01	01/02/25 09:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130			12/27/24 14:01	01/02/25 09:46	1
o-Terphenyl (Surr)	86		70 - 130			12/27/24 14:01	01/02/25 09:46	1

Lab Sample ID: LCS 880-98963/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1024		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	954.1		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	106		70 - 130				
o-Terphenyl (Surr)	108		70 - 130				

Lab Sample ID: LCSD 880-98963/3-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98963

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1051		mg/Kg		105	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	992.9		mg/Kg		99	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	110		70 - 130						
o-Terphenyl (Surr)	111		70 - 130						

Lab Sample ID: 880-52592-8 MS

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: S-2 1'

Prep Type: Total/NA

Prep Batch: 98963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	998	559.3	F1	mg/Kg		56	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	571.4	F1	mg/Kg		57	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

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

Lab Sample ID: 880-52592-8 MS

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: S-2 1'

Prep Type: Total/NA

Prep Batch: 98963

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	69	S1-	70 - 130
o-Terphenyl (Surr)	70		70 - 130

Lab Sample ID: 880-52592-8 MSD

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: S-2 1'

Prep Type: Total/NA

Prep Batch: 98963

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	998	562.8	F1	mg/Kg		56	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	568.4	F1	mg/Kg		57	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	69	S1-	70 - 130
o-Terphenyl (Surr)	71		70 - 130

Lab Sample ID: MB 880-98964/1-A

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98964

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 09:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 09:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 14:03	01/02/25 09:46	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	133	S1+	70 - 130	12/27/24 14:03	01/02/25 09:46	1		
o-Terphenyl (Surr)	136	S1+	70 - 130	12/27/24 14:03	01/02/25 09:46	1		

Lab Sample ID: LCS 880-98964/2-A

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1207		mg/Kg		121	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1187		mg/Kg		119	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	127		70 - 130
o-Terphenyl (Surr)	137	S1+	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

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

Lab Sample ID: LCSD 880-98964/3-A

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98964

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1241		mg/Kg		124	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1289		mg/Kg		129	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	137	S1+	70 - 130						
o-Terphenyl (Surr)	146	S1+	70 - 130						

Lab Sample ID: 880-52592-28 MS

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: S-12 7

Prep Type: Total/NA

Prep Batch: 98964

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	<49.8	U F1	998	674.0	F1	mg/Kg		68	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	998	790.9		mg/Kg		79	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	89		70 - 130								
o-Terphenyl (Surr)	97		70 - 130								

Lab Sample ID: 880-52592-28 MSD

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: S-12 7

Prep Type: Total/NA

Prep Batch: 98964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	998	677.0	F1	mg/Kg		68	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	754.4		mg/Kg		76	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	104		70 - 130								
o-Terphenyl (Surr)	98		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98881/1-A

Matrix: Solid

Analysis Batch: 98951

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			12/28/24 00:10	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-98881/2-A
Matrix: Solid
Analysis Batch: 98951

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.1		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-98881/3-A
Matrix: Solid
Analysis Batch: 98951

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	261.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-52592-31 MS
Matrix: Solid
Analysis Batch: 98951

Client Sample ID: S-14 0.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	208	F1	249	538.3	F1	mg/Kg		133	90 - 110

Lab Sample ID: 880-52592-31 MSD
Matrix: Solid
Analysis Batch: 98951

Client Sample ID: S-14 0.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	208	F1	249	539.1	F1	mg/Kg		133	90 - 110	0	20

Lab Sample ID: 880-52592-41 MS
Matrix: Solid
Analysis Batch: 98951

Client Sample ID: S-13 0.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	106	F1	249	418.2	F1	mg/Kg		126	90 - 110

Lab Sample ID: 880-52592-41 MSD
Matrix: Solid
Analysis Batch: 98951

Client Sample ID: S-13 0.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	106	F1	249	418.6	F1	mg/Kg		126	90 - 110	0	20

Lab Sample ID: MB 880-98878/1-A
Matrix: Solid
Analysis Batch: 98953

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			12/27/24 19:08	1

Lab Sample ID: LCS 880-98878/2-A
Matrix: Solid
Analysis Batch: 98953

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	235.8		mg/Kg		94	90 - 110

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-98878/3-A

Matrix: Solid

Analysis Batch: 98953

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	235.2		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-52592-17 MS

Matrix: Solid

Analysis Batch: 98953

Client Sample ID: S-3 10'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	70.2		250	335.3		mg/Kg		106	90 - 110		

Lab Sample ID: 880-52592-17 MSD

Matrix: Solid

Analysis Batch: 98953

Client Sample ID: S-3 10'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	70.2		250	335.5		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-52592-27 MS

Matrix: Solid

Analysis Batch: 98953

Client Sample ID: S-12 5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1160	F1	1240	2541	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 880-52592-27 MSD

Matrix: Solid

Analysis Batch: 98953

Client Sample ID: S-12 5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1160	F1	1240	2547	F1	mg/Kg		112	90 - 110	0	20

Lab Sample ID: MB 880-98877/1-A

Matrix: Solid

Analysis Batch: 99028

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			12/30/24 14:38	1

Lab Sample ID: LCS 880-98877/2-A

Matrix: Solid

Analysis Batch: 99028

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	252.6		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-98877/3-A

Matrix: Solid

Analysis Batch: 99028

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	250.1		mg/Kg		100	90 - 110	1	20

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-52592-10 MS

Matrix: Solid

Analysis Batch: 99028

Client Sample ID: S-2 5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	72.6		249	345.2		mg/Kg		109	90 - 110

Lab Sample ID: 880-52592-10 MSD

Matrix: Solid

Analysis Batch: 99028

Client Sample ID: S-2 5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	72.6		249	344.6		mg/Kg		109	90 - 110	0	20

Lab Sample ID: MB 880-98880/1-A

Matrix: Solid

Analysis Batch: 99052

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			12/30/24 19:13	1

Lab Sample ID: LCS 880-98880/2-A

Matrix: Solid

Analysis Batch: 99052

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.8		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-98880/3-A

Matrix: Solid

Analysis Batch: 99052

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.7		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 880-52592-29 MS

Matrix: Solid

Analysis Batch: 99052

Client Sample ID: S-12 10

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	194		248	449.8		mg/Kg		103	90 - 110

Lab Sample ID: 880-52592-29 MSD

Matrix: Solid

Analysis Batch: 99052

Client Sample ID: S-12 10

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	194		248	448.3		mg/Kg		103	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

GC VOA

Prep Batch: 98785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-1	S-1 1'	Total/NA	Solid	5035	
880-52592-2	S-1 3'	Total/NA	Solid	5035	
880-52592-3	S-1 5'	Total/NA	Solid	5035	
880-52592-4	S-1 7'	Total/NA	Solid	5035	
880-52592-5	S-1 10'	Total/NA	Solid	5035	
880-52592-6	S-11 0'	Total/NA	Solid	5035	
880-52592-7	S-11 0.5'	Total/NA	Solid	5035	
880-52592-8	S-2 1'	Total/NA	Solid	5035	
880-52592-9	S-2 3'	Total/NA	Solid	5035	
880-52592-10	S-2 5'	Total/NA	Solid	5035	
880-52592-11	S-2 7'	Total/NA	Solid	5035	
880-52592-12	S-2 10'	Total/NA	Solid	5035	
880-52592-13	S-3 1'	Total/NA	Solid	5035	
880-52592-14	S-3 3'	Total/NA	Solid	5035	
880-52592-15	S-3 5'	Total/NA	Solid	5035	
880-52592-16	S-3 7'	Total/NA	Solid	5035	
880-52592-17	S-3 10'	Total/NA	Solid	5035	
880-52592-18	S-5 1'	Total/NA	Solid	5035	
880-52592-19	S-5 3'	Total/NA	Solid	5035	
880-52592-20	S-5 5'	Total/NA	Solid	5035	
MB 880-98785/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98785/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98785/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52592-1 MS	S-1 1'	Total/NA	Solid	5035	
880-52592-1 MSD	S-1 1'	Total/NA	Solid	5035	

Prep Batch: 98787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-21	S-5 7'	Total/NA	Solid	5035	
880-52592-22	S-5 10'	Total/NA	Solid	5035	
880-52592-23	S-12 0'	Total/NA	Solid	5035	
880-52592-24	S-12 0.5'	Total/NA	Solid	5035	
880-52592-25	S-12 1	Total/NA	Solid	5035	
880-52592-26	S-12 3	Total/NA	Solid	5035	
880-52592-27	S-12 5	Total/NA	Solid	5035	
880-52592-28	S-12 7	Total/NA	Solid	5035	
880-52592-29	S-12 10	Total/NA	Solid	5035	
880-52592-30	S-14 0'	Total/NA	Solid	5035	
880-52592-31	S-14 0.5'	Total/NA	Solid	5035	
880-52592-32	S-10 0'	Total/NA	Solid	5035	
880-52592-33	S-10 0.5'	Total/NA	Solid	5035	
880-52592-34	S-7 1'	Total/NA	Solid	5035	
880-52592-35	S-7 3'	Total/NA	Solid	5035	
880-52592-36	S-8 1'	Total/NA	Solid	5035	
880-52592-37	S-8 3'	Total/NA	Solid	5035	
880-52592-38	S-9 1'	Total/NA	Solid	5035	
880-52592-39	S-9 3'	Total/NA	Solid	5035	
880-52592-40	S-13 0'	Total/NA	Solid	5035	
MB 880-98787/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98787/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98787/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

GC VOA (Continued)

Prep Batch: 98787 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-21 MS	S-5 7'	Total/NA	Solid	5035	
880-52592-21 MSD	S-5 7'	Total/NA	Solid	5035	

Prep Batch: 98915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-41	S-13 0.5'	Total/NA	Solid	5035	
880-52592-42	S-9 5'	Total/NA	Solid	5035	
MB 880-98915/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98915/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98915/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 98922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-1	S-1 1'	Total/NA	Solid	8021B	98785
880-52592-2	S-1 3'	Total/NA	Solid	8021B	98785
880-52592-3	S-1 5'	Total/NA	Solid	8021B	98785
880-52592-4	S-1 7'	Total/NA	Solid	8021B	98785
880-52592-5	S-1 10'	Total/NA	Solid	8021B	98785
880-52592-6	S-11 0'	Total/NA	Solid	8021B	98785
880-52592-7	S-11 0.5'	Total/NA	Solid	8021B	98785
880-52592-8	S-2 1'	Total/NA	Solid	8021B	98785
880-52592-9	S-2 3'	Total/NA	Solid	8021B	98785
880-52592-10	S-2 5'	Total/NA	Solid	8021B	98785
880-52592-11	S-2 7'	Total/NA	Solid	8021B	98785
880-52592-12	S-2 10'	Total/NA	Solid	8021B	98785
880-52592-13	S-3 1'	Total/NA	Solid	8021B	98785
880-52592-14	S-3 3'	Total/NA	Solid	8021B	98785
880-52592-15	S-3 5'	Total/NA	Solid	8021B	98785
880-52592-16	S-3 7'	Total/NA	Solid	8021B	98785
880-52592-17	S-3 10'	Total/NA	Solid	8021B	98785
880-52592-18	S-5 1'	Total/NA	Solid	8021B	98785
880-52592-19	S-5 3'	Total/NA	Solid	8021B	98785
880-52592-20	S-5 5'	Total/NA	Solid	8021B	98785
MB 880-98785/5-A	Method Blank	Total/NA	Solid	8021B	98785
LCS 880-98785/1-A	Lab Control Sample	Total/NA	Solid	8021B	98785
LCSD 880-98785/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98785
880-52592-1 MS	S-1 1'	Total/NA	Solid	8021B	98785
880-52592-1 MSD	S-1 1'	Total/NA	Solid	8021B	98785

Analysis Batch: 98923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-21	S-5 7'	Total/NA	Solid	8021B	98787
880-52592-22	S-5 10'	Total/NA	Solid	8021B	98787
880-52592-23	S-12 0'	Total/NA	Solid	8021B	98787
880-52592-24	S-12 0.5'	Total/NA	Solid	8021B	98787
880-52592-25	S-12 1	Total/NA	Solid	8021B	98787
880-52592-26	S-12 3	Total/NA	Solid	8021B	98787
880-52592-27	S-12 5	Total/NA	Solid	8021B	98787
880-52592-28	S-12 7	Total/NA	Solid	8021B	98787
880-52592-29	S-12 10	Total/NA	Solid	8021B	98787
880-52592-30	S-14 0'	Total/NA	Solid	8021B	98787

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

GC VOA (Continued)

Analysis Batch: 98923 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-31	S-14 0.5'	Total/NA	Solid	8021B	98787
880-52592-32	S-10 0'	Total/NA	Solid	8021B	98787
880-52592-33	S-10 0.5'	Total/NA	Solid	8021B	98787
880-52592-34	S-7 1'	Total/NA	Solid	8021B	98787
880-52592-35	S-7 3'	Total/NA	Solid	8021B	98787
880-52592-36	S-8 1'	Total/NA	Solid	8021B	98787
880-52592-37	S-8 3'	Total/NA	Solid	8021B	98787
880-52592-38	S-9 1'	Total/NA	Solid	8021B	98787
880-52592-39	S-9 3'	Total/NA	Solid	8021B	98787
880-52592-40	S-13 0'	Total/NA	Solid	8021B	98787
MB 880-98787/5-A	Method Blank	Total/NA	Solid	8021B	98787
LCS 880-98787/1-A	Lab Control Sample	Total/NA	Solid	8021B	98787
LCSD 880-98787/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98787
880-52592-21 MS	S-5 7'	Total/NA	Solid	8021B	98787
880-52592-21 MSD	S-5 7'	Total/NA	Solid	8021B	98787

Analysis Batch: 99020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-41	S-13 0.5'	Total/NA	Solid	8021B	98915
880-52592-42	S-9 5'	Total/NA	Solid	8021B	98915
MB 880-98915/5-A	Method Blank	Total/NA	Solid	8021B	98915
LCS 880-98915/1-A	Lab Control Sample	Total/NA	Solid	8021B	98915
LCSD 880-98915/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98915

Analysis Batch: 99116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-1	S-1 1'	Total/NA	Solid	Total BTEX	
880-52592-2	S-1 3'	Total/NA	Solid	Total BTEX	
880-52592-3	S-1 5'	Total/NA	Solid	Total BTEX	
880-52592-4	S-1 7'	Total/NA	Solid	Total BTEX	
880-52592-5	S-1 10'	Total/NA	Solid	Total BTEX	
880-52592-6	S-11 0'	Total/NA	Solid	Total BTEX	
880-52592-7	S-11 0.5'	Total/NA	Solid	Total BTEX	
880-52592-8	S-2 1'	Total/NA	Solid	Total BTEX	
880-52592-9	S-2 3'	Total/NA	Solid	Total BTEX	
880-52592-10	S-2 5'	Total/NA	Solid	Total BTEX	
880-52592-11	S-2 7'	Total/NA	Solid	Total BTEX	
880-52592-12	S-2 10'	Total/NA	Solid	Total BTEX	
880-52592-13	S-3 1'	Total/NA	Solid	Total BTEX	
880-52592-14	S-3 3'	Total/NA	Solid	Total BTEX	
880-52592-15	S-3 5'	Total/NA	Solid	Total BTEX	
880-52592-16	S-3 7'	Total/NA	Solid	Total BTEX	
880-52592-17	S-3 10'	Total/NA	Solid	Total BTEX	
880-52592-18	S-5 1'	Total/NA	Solid	Total BTEX	
880-52592-19	S-5 3'	Total/NA	Solid	Total BTEX	
880-52592-20	S-5 5'	Total/NA	Solid	Total BTEX	
880-52592-21	S-5 7'	Total/NA	Solid	Total BTEX	
880-52592-22	S-5 10'	Total/NA	Solid	Total BTEX	
880-52592-23	S-12 0'	Total/NA	Solid	Total BTEX	
880-52592-24	S-12 0.5'	Total/NA	Solid	Total BTEX	
880-52592-25	S-12 1	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

GC VOA (Continued)

Analysis Batch: 99116 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-26	S-12 3	Total/NA	Solid	Total BTEX	
880-52592-27	S-12 5	Total/NA	Solid	Total BTEX	
880-52592-28	S-12 7	Total/NA	Solid	Total BTEX	
880-52592-29	S-12 10	Total/NA	Solid	Total BTEX	
880-52592-30	S-14 0'	Total/NA	Solid	Total BTEX	
880-52592-31	S-14 0.5'	Total/NA	Solid	Total BTEX	
880-52592-32	S-10 0'	Total/NA	Solid	Total BTEX	
880-52592-33	S-10 0.5'	Total/NA	Solid	Total BTEX	
880-52592-34	S-7 1'	Total/NA	Solid	Total BTEX	
880-52592-35	S-7 3'	Total/NA	Solid	Total BTEX	
880-52592-36	S-8 1'	Total/NA	Solid	Total BTEX	
880-52592-37	S-8 3'	Total/NA	Solid	Total BTEX	
880-52592-38	S-9 1'	Total/NA	Solid	Total BTEX	
880-52592-39	S-9 3'	Total/NA	Solid	Total BTEX	
880-52592-40	S-13 0'	Total/NA	Solid	Total BTEX	
880-52592-41	S-13 0.5'	Total/NA	Solid	Total BTEX	
880-52592-42	S-9 5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-1	S-1 1'	Total/NA	Solid	8015NM Prep	
880-52592-2	S-1 3'	Total/NA	Solid	8015NM Prep	
880-52592-3	S-1 5'	Total/NA	Solid	8015NM Prep	
880-52592-4	S-1 7'	Total/NA	Solid	8015NM Prep	
880-52592-5	S-1 10'	Total/NA	Solid	8015NM Prep	
880-52592-6	S-11 0'	Total/NA	Solid	8015NM Prep	
880-52592-7	S-11 0.5'	Total/NA	Solid	8015NM Prep	
MB 880-98962/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98962/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98962/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 98963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-8	S-2 1'	Total/NA	Solid	8015NM Prep	
880-52592-9	S-2 3'	Total/NA	Solid	8015NM Prep	
880-52592-10	S-2 5'	Total/NA	Solid	8015NM Prep	
880-52592-11	S-2 7'	Total/NA	Solid	8015NM Prep	
880-52592-12	S-2 10'	Total/NA	Solid	8015NM Prep	
880-52592-13	S-3 1'	Total/NA	Solid	8015NM Prep	
880-52592-14	S-3 3'	Total/NA	Solid	8015NM Prep	
880-52592-15	S-3 5'	Total/NA	Solid	8015NM Prep	
880-52592-16	S-3 7'	Total/NA	Solid	8015NM Prep	
880-52592-17	S-3 10'	Total/NA	Solid	8015NM Prep	
880-52592-18	S-5 1'	Total/NA	Solid	8015NM Prep	
880-52592-19	S-5 3'	Total/NA	Solid	8015NM Prep	
880-52592-20	S-5 5'	Total/NA	Solid	8015NM Prep	
880-52592-21	S-5 7'	Total/NA	Solid	8015NM Prep	
880-52592-22	S-5 10'	Total/NA	Solid	8015NM Prep	
880-52592-23	S-12 0'	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

GC Semi VOA (Continued)

Prep Batch: 98963 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-24	S-12 0.5'	Total/NA	Solid	8015NM Prep	
880-52592-25	S-12 1	Total/NA	Solid	8015NM Prep	
880-52592-26	S-12 3	Total/NA	Solid	8015NM Prep	
880-52592-27	S-12 5	Total/NA	Solid	8015NM Prep	
MB 880-98963/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98963/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98963/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52592-8 MS	S-2 1'	Total/NA	Solid	8015NM Prep	
880-52592-8 MSD	S-2 1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 98964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-28	S-12 7	Total/NA	Solid	8015NM Prep	
880-52592-29	S-12 10	Total/NA	Solid	8015NM Prep	
880-52592-30	S-14 0'	Total/NA	Solid	8015NM Prep	
880-52592-31	S-14 0.5'	Total/NA	Solid	8015NM Prep	
880-52592-32	S-10 0'	Total/NA	Solid	8015NM Prep	
880-52592-33	S-10 0.5'	Total/NA	Solid	8015NM Prep	
880-52592-34	S-7 1'	Total/NA	Solid	8015NM Prep	
880-52592-35	S-7 3'	Total/NA	Solid	8015NM Prep	
880-52592-36	S-8 1'	Total/NA	Solid	8015NM Prep	
880-52592-37	S-8 3'	Total/NA	Solid	8015NM Prep	
880-52592-38	S-9 1'	Total/NA	Solid	8015NM Prep	
880-52592-39	S-9 3'	Total/NA	Solid	8015NM Prep	
880-52592-40	S-13 0'	Total/NA	Solid	8015NM Prep	
880-52592-41	S-13 0.5'	Total/NA	Solid	8015NM Prep	
880-52592-42	S-9 5'	Total/NA	Solid	8015NM Prep	
MB 880-98964/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98964/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98964/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52592-28 MS	S-12 7	Total/NA	Solid	8015NM Prep	
880-52592-28 MSD	S-12 7	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-1	S-1 1'	Total/NA	Solid	8015B NM	98962
880-52592-2	S-1 3'	Total/NA	Solid	8015B NM	98962
880-52592-3	S-1 5'	Total/NA	Solid	8015B NM	98962
880-52592-4	S-1 7'	Total/NA	Solid	8015B NM	98962
880-52592-5	S-1 10'	Total/NA	Solid	8015B NM	98962
880-52592-6	S-11 0'	Total/NA	Solid	8015B NM	98962
880-52592-7	S-11 0.5'	Total/NA	Solid	8015B NM	98962
MB 880-98962/1-A	Method Blank	Total/NA	Solid	8015B NM	98962
LCS 880-98962/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98962
LCSD 880-98962/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98962

Analysis Batch: 99298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-8	S-2 1'	Total/NA	Solid	8015B NM	98963
880-52592-9	S-2 3'	Total/NA	Solid	8015B NM	98963
880-52592-10	S-2 5'	Total/NA	Solid	8015B NM	98963

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

GC Semi VOA (Continued)

Analysis Batch: 99298 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-11	S-2 7"	Total/NA	Solid	8015B NM	98963
880-52592-12	S-2 10'	Total/NA	Solid	8015B NM	98963
880-52592-13	S-3 1'	Total/NA	Solid	8015B NM	98963
880-52592-14	S-3 3'	Total/NA	Solid	8015B NM	98963
880-52592-15	S-3 5'	Total/NA	Solid	8015B NM	98963
880-52592-16	S-3 7'	Total/NA	Solid	8015B NM	98963
880-52592-17	S-3 10'	Total/NA	Solid	8015B NM	98963
880-52592-18	S-5 1'	Total/NA	Solid	8015B NM	98963
880-52592-19	S-5 3'	Total/NA	Solid	8015B NM	98963
880-52592-20	S-5 5'	Total/NA	Solid	8015B NM	98963
880-52592-21	S-5 7'	Total/NA	Solid	8015B NM	98963
880-52592-22	S-5 10'	Total/NA	Solid	8015B NM	98963
880-52592-23	S-12 0'	Total/NA	Solid	8015B NM	98963
880-52592-24	S-12 0.5'	Total/NA	Solid	8015B NM	98963
880-52592-25	S-12 1	Total/NA	Solid	8015B NM	98963
880-52592-26	S-12 3	Total/NA	Solid	8015B NM	98963
880-52592-27	S-12 5	Total/NA	Solid	8015B NM	98963
MB 880-98963/1-A	Method Blank	Total/NA	Solid	8015B NM	98963
LCS 880-98963/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98963
LCSD 880-98963/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98963
880-52592-8 MS	S-2 1'	Total/NA	Solid	8015B NM	98963
880-52592-8 MSD	S-2 1'	Total/NA	Solid	8015B NM	98963

Analysis Batch: 99300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-28	S-12 7	Total/NA	Solid	8015B NM	98964
880-52592-29	S-12 10	Total/NA	Solid	8015B NM	98964
880-52592-30	S-14 0'	Total/NA	Solid	8015B NM	98964
880-52592-31	S-14 0.5'	Total/NA	Solid	8015B NM	98964
880-52592-32	S-10 0'	Total/NA	Solid	8015B NM	98964
880-52592-33	S-10 0.5'	Total/NA	Solid	8015B NM	98964
880-52592-34	S-7 1'	Total/NA	Solid	8015B NM	98964
880-52592-35	S-7 3'	Total/NA	Solid	8015B NM	98964
880-52592-36	S-8 1'	Total/NA	Solid	8015B NM	98964
880-52592-37	S-8 3'	Total/NA	Solid	8015B NM	98964
880-52592-38	S-9 1'	Total/NA	Solid	8015B NM	98964
880-52592-39	S-9 3'	Total/NA	Solid	8015B NM	98964
880-52592-40	S-13 0'	Total/NA	Solid	8015B NM	98964
880-52592-41	S-13 0.5'	Total/NA	Solid	8015B NM	98964
880-52592-42	S-9 5'	Total/NA	Solid	8015B NM	98964
MB 880-98964/1-A	Method Blank	Total/NA	Solid	8015B NM	98964
LCS 880-98964/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98964
LCSD 880-98964/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98964
880-52592-28 MS	S-12 7	Total/NA	Solid	8015B NM	98964
880-52592-28 MSD	S-12 7	Total/NA	Solid	8015B NM	98964

Analysis Batch: 99344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-1	S-1 1'	Total/NA	Solid	8015 NM	
880-52592-2	S-1 3'	Total/NA	Solid	8015 NM	
880-52592-3	S-1 5'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

GC Semi VOA (Continued)

Analysis Batch: 99344 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-4	S-1 7'	Total/NA	Solid	8015 NM	
880-52592-5	S-1 10'	Total/NA	Solid	8015 NM	
880-52592-6	S-11 0'	Total/NA	Solid	8015 NM	
880-52592-7	S-11 0.5'	Total/NA	Solid	8015 NM	
880-52592-8	S-2 1'	Total/NA	Solid	8015 NM	
880-52592-9	S-2 3'	Total/NA	Solid	8015 NM	
880-52592-10	S-2 5'	Total/NA	Solid	8015 NM	
880-52592-11	S-2 7'	Total/NA	Solid	8015 NM	
880-52592-12	S-2 10'	Total/NA	Solid	8015 NM	
880-52592-13	S-3 1'	Total/NA	Solid	8015 NM	
880-52592-14	S-3 3'	Total/NA	Solid	8015 NM	
880-52592-15	S-3 5'	Total/NA	Solid	8015 NM	
880-52592-16	S-3 7'	Total/NA	Solid	8015 NM	
880-52592-17	S-3 10'	Total/NA	Solid	8015 NM	
880-52592-18	S-5 1'	Total/NA	Solid	8015 NM	
880-52592-19	S-5 3'	Total/NA	Solid	8015 NM	
880-52592-20	S-5 5'	Total/NA	Solid	8015 NM	
880-52592-21	S-5 7'	Total/NA	Solid	8015 NM	
880-52592-22	S-5 10'	Total/NA	Solid	8015 NM	
880-52592-23	S-12 0'	Total/NA	Solid	8015 NM	
880-52592-24	S-12 0.5'	Total/NA	Solid	8015 NM	
880-52592-25	S-12 1	Total/NA	Solid	8015 NM	
880-52592-26	S-12 3	Total/NA	Solid	8015 NM	
880-52592-27	S-12 5	Total/NA	Solid	8015 NM	
880-52592-28	S-12 7	Total/NA	Solid	8015 NM	
880-52592-29	S-12 10	Total/NA	Solid	8015 NM	
880-52592-30	S-14 0'	Total/NA	Solid	8015 NM	
880-52592-31	S-14 0.5'	Total/NA	Solid	8015 NM	
880-52592-32	S-10 0'	Total/NA	Solid	8015 NM	
880-52592-33	S-10 0.5'	Total/NA	Solid	8015 NM	
880-52592-34	S-7 1'	Total/NA	Solid	8015 NM	
880-52592-35	S-7 3'	Total/NA	Solid	8015 NM	
880-52592-36	S-8 1'	Total/NA	Solid	8015 NM	
880-52592-37	S-8 3'	Total/NA	Solid	8015 NM	
880-52592-38	S-9 1'	Total/NA	Solid	8015 NM	
880-52592-39	S-9 3'	Total/NA	Solid	8015 NM	
880-52592-40	S-13 0'	Total/NA	Solid	8015 NM	
880-52592-41	S-13 0.5'	Total/NA	Solid	8015 NM	
880-52592-42	S-9 5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-1	S-1 1'	Soluble	Solid	DI Leach	
880-52592-2	S-1 3'	Soluble	Solid	DI Leach	
880-52592-3	S-1 5'	Soluble	Solid	DI Leach	
880-52592-4	S-1 7'	Soluble	Solid	DI Leach	
880-52592-5	S-1 10'	Soluble	Solid	DI Leach	
880-52592-6	S-11 0'	Soluble	Solid	DI Leach	
880-52592-7	S-11 0.5'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

HPLC/IC (Continued)

Leach Batch: 98877 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-8	S-2 1'	Soluble	Solid	DI Leach	
880-52592-9	S-2 3'	Soluble	Solid	DI Leach	
880-52592-10	S-2 5'	Soluble	Solid	DI Leach	
880-52592-11	S-2 7'	Soluble	Solid	DI Leach	
880-52592-12	S-2 10'	Soluble	Solid	DI Leach	
880-52592-13	S-3 1'	Soluble	Solid	DI Leach	
880-52592-14	S-3 3'	Soluble	Solid	DI Leach	
880-52592-15	S-3 5'	Soluble	Solid	DI Leach	
880-52592-16	S-3 7'	Soluble	Solid	DI Leach	
MB 880-98877/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98877/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98877/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52592-10 MS	S-2 5'	Soluble	Solid	DI Leach	
880-52592-10 MSD	S-2 5'	Soluble	Solid	DI Leach	

Leach Batch: 98878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-17	S-3 10'	Soluble	Solid	DI Leach	
880-52592-18	S-5 1'	Soluble	Solid	DI Leach	
880-52592-19	S-5 3'	Soluble	Solid	DI Leach	
880-52592-20	S-5 5'	Soluble	Solid	DI Leach	
880-52592-21	S-5 7'	Soluble	Solid	DI Leach	
880-52592-22	S-5 10'	Soluble	Solid	DI Leach	
880-52592-23	S-12 0'	Soluble	Solid	DI Leach	
880-52592-24	S-12 0.5'	Soluble	Solid	DI Leach	
880-52592-25	S-12 1	Soluble	Solid	DI Leach	
880-52592-26	S-12 3	Soluble	Solid	DI Leach	
880-52592-27	S-12 5	Soluble	Solid	DI Leach	
880-52592-28	S-12 7	Soluble	Solid	DI Leach	
MB 880-98878/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98878/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98878/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52592-17 MS	S-3 10'	Soluble	Solid	DI Leach	
880-52592-17 MSD	S-3 10'	Soluble	Solid	DI Leach	
880-52592-27 MS	S-12 5	Soluble	Solid	DI Leach	
880-52592-27 MSD	S-12 5	Soluble	Solid	DI Leach	

Leach Batch: 98880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-29	S-12 10	Soluble	Solid	DI Leach	
880-52592-30	S-14 0'	Soluble	Solid	DI Leach	
MB 880-98880/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98880/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98880/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52592-29 MS	S-12 10	Soluble	Solid	DI Leach	
880-52592-29 MSD	S-12 10	Soluble	Solid	DI Leach	

Leach Batch: 98881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-31	S-14 0.5'	Soluble	Solid	DI Leach	
880-52592-32	S-10 0'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

HPLC/IC (Continued)

Leach Batch: 98881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-33	S-10 0.5'	Soluble	Solid	DI Leach	
880-52592-34	S-7 1'	Soluble	Solid	DI Leach	
880-52592-35	S-7 3'	Soluble	Solid	DI Leach	
880-52592-36	S-8 1'	Soluble	Solid	DI Leach	
880-52592-37	S-8 3'	Soluble	Solid	DI Leach	
880-52592-38	S-9 1'	Soluble	Solid	DI Leach	
880-52592-39	S-9 3'	Soluble	Solid	DI Leach	
880-52592-40	S-13 0'	Soluble	Solid	DI Leach	
880-52592-41	S-13 0.5'	Soluble	Solid	DI Leach	
880-52592-42	S-9 5'	Soluble	Solid	DI Leach	
MB 880-98881/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52592-31 MS	S-14 0.5'	Soluble	Solid	DI Leach	
880-52592-31 MSD	S-14 0.5'	Soluble	Solid	DI Leach	
880-52592-41 MS	S-13 0.5'	Soluble	Solid	DI Leach	
880-52592-41 MSD	S-13 0.5'	Soluble	Solid	DI Leach	

Analysis Batch: 98951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-31	S-14 0.5'	Soluble	Solid	300.0	98881
880-52592-32	S-10 0'	Soluble	Solid	300.0	98881
880-52592-33	S-10 0.5'	Soluble	Solid	300.0	98881
880-52592-34	S-7 1'	Soluble	Solid	300.0	98881
880-52592-35	S-7 3'	Soluble	Solid	300.0	98881
880-52592-36	S-8 1'	Soluble	Solid	300.0	98881
880-52592-37	S-8 3'	Soluble	Solid	300.0	98881
880-52592-38	S-9 1'	Soluble	Solid	300.0	98881
880-52592-39	S-9 3'	Soluble	Solid	300.0	98881
880-52592-40	S-13 0'	Soluble	Solid	300.0	98881
880-52592-41	S-13 0.5'	Soluble	Solid	300.0	98881
880-52592-42	S-9 5'	Soluble	Solid	300.0	98881
MB 880-98881/1-A	Method Blank	Soluble	Solid	300.0	98881
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	300.0	98881
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98881
880-52592-31 MS	S-14 0.5'	Soluble	Solid	300.0	98881
880-52592-31 MSD	S-14 0.5'	Soluble	Solid	300.0	98881
880-52592-41 MS	S-13 0.5'	Soluble	Solid	300.0	98881
880-52592-41 MSD	S-13 0.5'	Soluble	Solid	300.0	98881

Analysis Batch: 98953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-17	S-3 10'	Soluble	Solid	300.0	98878
880-52592-18	S-5 1'	Soluble	Solid	300.0	98878
880-52592-19	S-5 3'	Soluble	Solid	300.0	98878
880-52592-20	S-5 5'	Soluble	Solid	300.0	98878
880-52592-21	S-5 7'	Soluble	Solid	300.0	98878
880-52592-22	S-5 10'	Soluble	Solid	300.0	98878
880-52592-23	S-12 0'	Soluble	Solid	300.0	98878
880-52592-24	S-12 0.5'	Soluble	Solid	300.0	98878
880-52592-25	S-12 1	Soluble	Solid	300.0	98878

Eurofins Midland

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

HPLC/IC (Continued)

Analysis Batch: 98953 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-26	S-12 3	Soluble	Solid	300.0	98878
880-52592-27	S-12 5	Soluble	Solid	300.0	98878
880-52592-28	S-12 7	Soluble	Solid	300.0	98878
MB 880-98878/1-A	Method Blank	Soluble	Solid	300.0	98878
LCS 880-98878/2-A	Lab Control Sample	Soluble	Solid	300.0	98878
LCSD 880-98878/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98878
880-52592-17 MS	S-3 10'	Soluble	Solid	300.0	98878
880-52592-17 MSD	S-3 10'	Soluble	Solid	300.0	98878
880-52592-27 MS	S-12 5	Soluble	Solid	300.0	98878
880-52592-27 MSD	S-12 5	Soluble	Solid	300.0	98878

Analysis Batch: 99028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-1	S-1 1'	Soluble	Solid	300.0	98877
880-52592-2	S-1 3'	Soluble	Solid	300.0	98877
880-52592-3	S-1 5'	Soluble	Solid	300.0	98877
880-52592-4	S-1 7'	Soluble	Solid	300.0	98877
880-52592-5	S-1 10'	Soluble	Solid	300.0	98877
880-52592-6	S-11 0'	Soluble	Solid	300.0	98877
880-52592-7	S-11 0.5'	Soluble	Solid	300.0	98877
880-52592-8	S-2 1'	Soluble	Solid	300.0	98877
880-52592-9	S-2 3'	Soluble	Solid	300.0	98877
880-52592-10	S-2 5'	Soluble	Solid	300.0	98877
880-52592-11	S-2 7'	Soluble	Solid	300.0	98877
880-52592-12	S-2 10'	Soluble	Solid	300.0	98877
880-52592-13	S-3 1'	Soluble	Solid	300.0	98877
880-52592-14	S-3 3'	Soluble	Solid	300.0	98877
880-52592-15	S-3 5'	Soluble	Solid	300.0	98877
880-52592-16	S-3 7'	Soluble	Solid	300.0	98877
MB 880-98877/1-A	Method Blank	Soluble	Solid	300.0	98877
LCS 880-98877/2-A	Lab Control Sample	Soluble	Solid	300.0	98877
LCSD 880-98877/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98877
880-52592-10 MS	S-2 5'	Soluble	Solid	300.0	98877
880-52592-10 MSD	S-2 5'	Soluble	Solid	300.0	98877

Analysis Batch: 99052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-29	S-12 10	Soluble	Solid	300.0	98880
880-52592-30	S-14 0'	Soluble	Solid	300.0	98880
MB 880-98880/1-A	Method Blank	Soluble	Solid	300.0	98880
LCS 880-98880/2-A	Lab Control Sample	Soluble	Solid	300.0	98880
LCSD 880-98880/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98880
880-52592-29 MS	S-12 10	Soluble	Solid	300.0	98880
880-52592-29 MSD	S-12 10	Soluble	Solid	300.0	98880

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-1 1'
Date Collected: 12/17/24 12:50
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-1
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	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 13:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 13:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/01/25 02:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	01/01/25 02:18	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 15:25	CH	EET MID

Client Sample ID: S-1 3'
Date Collected: 12/17/24 12:52
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-2
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			4.95 g	5 mL	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 13:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 13:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/01/25 02:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	01/01/25 02:38	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 15:33	CH	EET MID

Client Sample ID: S-1 5'
Date Collected: 12/17/24 12:54
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-3
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			4.99 g	5 mL	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 14:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/01/25 02:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	01/01/25 02:59	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 15:41	CH	EET MID

Client Sample ID: S-1 7'
Date Collected: 12/17/24 12:55
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 14:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 14:30	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-1 7'
Date Collected: 12/17/24 12:55
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-4
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			99344	01/01/25 03:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	01/01/25 03:20	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 15:49	CH	EET MID

Client Sample ID: S-1 10'
Date Collected: 12/17/24 12:56
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 14:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 14:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/01/25 03:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	01/01/25 03:40	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 16:12	CH	EET MID

Client Sample ID: S-11 0'
Date Collected: 12/17/24 12:35
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 15:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 15:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/01/25 04:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	01/01/25 04:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 16:20	CH	EET MID

Client Sample ID: S-11 0.5'
Date Collected: 12/17/24 12:36
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 15:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 15:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/01/25 04:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	01/01/25 04:21	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-11 0.5'
Date Collected: 12/17/24 12:36
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-7
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	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 16:28	CH	EET MID

Client Sample ID: S-2 1'
Date Collected: 12/18/24 11:07
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 15:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 12:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 12:48	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 16:36	CH	EET MID

Client Sample ID: S-2 3'
Date Collected: 12/18/24 11:08
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 16:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 13:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 13:35	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 16:44	CH	EET MID

Client Sample ID: S-2 5'
Date Collected: 12/18/24 11:09
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-10
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	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 16:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 16:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 13:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 13:52	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 16:51	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-2 7'
Date Collected: 12/18/24 11:10
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 18:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 18:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 14:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 14:09	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 17:15	CH	EET MID

Client Sample ID: S-2 10'
Date Collected: 12/18/24 11:11
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-12
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	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 18:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 18:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 14:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 14:25	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 17:23	CH	EET MID

Client Sample ID: S-3 1'
Date Collected: 12/18/24 12:23
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 19:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 19:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 14:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 14:41	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 17:46	CH	EET MID

Client Sample ID: S-3 3'
Date Collected: 12/18/24 12:24
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-14
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	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 19:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 19:24	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-3 3'

Lab Sample ID: 880-52592-14

Date Collected: 12/18/24 12:24

Matrix: Solid

Date Received: 12/23/24 11:57

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			99344	01/02/25 14:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 14:57	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 17:54	CH	EET MID

Client Sample ID: S-3 5'

Lab Sample ID: 880-52592-15

Date Collected: 12/18/24 12:25

Matrix: Solid

Date Received: 12/23/24 11:57

Prep 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	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 19:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 19:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 15:13	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 18:02	CH	EET MID

Client Sample ID: S-3 7'

Lab Sample ID: 880-52592-16

Date Collected: 12/18/24 12:26

Matrix: Solid

Date Received: 12/23/24 11:57

Prep 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	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 20:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 20:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 15:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 15:29	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98877	12/26/24 16:09	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99028	12/30/24 18:10	CH	EET MID

Client Sample ID: S-3 10'

Lab Sample ID: 880-52592-17

Date Collected: 12/18/24 12:27

Matrix: Solid

Date Received: 12/23/24 11:57

Prep 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	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 20:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 20:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 15:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 15:47	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-3 10'**Lab Sample ID: 880-52592-17****Date Collected: 12/18/24 12:27****Matrix: Solid****Date Received: 12/23/24 11:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	98878	12/26/24 16:10	CH	EET MID
Soluble	Analysis	300.0		1			98953	12/27/24 19:26	CH	EET MID

Client Sample ID: S-5 1'**Lab Sample ID: 880-52592-18****Date Collected: 12/18/24 13:33****Matrix: Solid****Date Received: 12/23/24 11:57**

Prep 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	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 20:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 20:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 16:18	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98878	12/26/24 16:10	CH	EET MID
Soluble	Analysis	300.0		1			98953	12/27/24 19:43	CH	EET MID

Client Sample ID: S-5 3'**Lab Sample ID: 880-52592-19****Date Collected: 12/18/24 13:34****Matrix: Solid****Date Received: 12/23/24 11:57**

Prep 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	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 21:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 21:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 16:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 16:35	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98878	12/26/24 16:10	CH	EET MID
Soluble	Analysis	300.0		1			98953	12/27/24 19:49	CH	EET MID

Client Sample ID: S-5 5'**Lab Sample ID: 880-52592-20****Date Collected: 12/18/24 13:35****Matrix: Solid****Date Received: 12/23/24 11:57**

Prep 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	98785	12/26/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/27/24 21:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 21:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 16:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 16:51	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98878	12/26/24 16:10	CH	EET MID
Soluble	Analysis	300.0		1			98953	12/27/24 19:55	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-5 7'
Date Collected: 12/18/24 13:36
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-21
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	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 12:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 12:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 17:07	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98878	12/26/24 16:10	CH	EET MID
Soluble	Analysis	300.0		1			98953	12/27/24 20:00	CH	EET MID

Client Sample ID: S-5 10'
Date Collected: 12/18/24 13:37
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 13:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 13:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 17:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 17:23	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98878	12/26/24 16:10	CH	EET MID
Soluble	Analysis	300.0		1			98953	12/27/24 20:18	CH	EET MID

Client Sample ID: S-12 0'
Date Collected: 12/19/24 08:09
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-23
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	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 13:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 13:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 17:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 17:39	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98878	12/26/24 16:10	CH	EET MID
Soluble	Analysis	300.0		50			98953	12/27/24 20:23	CH	EET MID

Client Sample ID: S-12 0.5'
Date Collected: 12/19/24 08:10
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-24
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	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 13:58	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-12 0.5'

Lab Sample ID: 880-52592-24

Date Collected: 12/19/24 08:10

Matrix: Solid

Date Received: 12/23/24 11:57

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			99344	01/02/25 17:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 17:56	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98878	12/26/24 16:10	CH	EET MID
Soluble	Analysis	300.0		20			98953	12/27/24 20:29	CH	EET MID

Client Sample ID: S-12 1

Lab Sample ID: 880-52592-25

Date Collected: 12/19/24 08:11

Matrix: Solid

Date Received: 12/23/24 11:57

Prep 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	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 14:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 14:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 18:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 18:12	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98878	12/26/24 16:10	CH	EET MID
Soluble	Analysis	300.0		20			98953	12/27/24 20:35	CH	EET MID

Client Sample ID: S-12 3

Lab Sample ID: 880-52592-26

Date Collected: 12/19/24 08:12

Matrix: Solid

Date Received: 12/23/24 11:57

Prep 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	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 14:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 18:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 18:29	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98878	12/26/24 16:10	CH	EET MID
Soluble	Analysis	300.0		20			98953	12/27/24 20:41	CH	EET MID

Client Sample ID: S-12 5

Lab Sample ID: 880-52592-27

Date Collected: 12/19/24 08:13

Matrix: Solid

Date Received: 12/23/24 11:57

Prep 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	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 14:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 14:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 18:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98963	12/27/24 14:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 18:45	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-12 5
Date Collected: 12/19/24 08:13
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-27
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			5.04 g	50 mL	98878	12/26/24 16:10	CH	EET MID
Soluble	Analysis	300.0		5			98953	12/27/24 20:46	CH	EET MID

Client Sample ID: S-12 7
Date Collected: 12/19/24 09:07
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-28
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			4.99 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 15:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 12:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 12:48	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98878	12/26/24 16:10	CH	EET MID
Soluble	Analysis	300.0		10			98953	12/27/24 21:04	CH	EET MID

Client Sample ID: S-12 10
Date Collected: 12/19/24 09:08
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 15:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 15:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 13:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 13:35	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98880	12/26/24 16:13	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99052	12/30/24 19:36	CH	EET MID

Client Sample ID: S-14 0'
Date Collected: 12/19/24 09:44
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 16:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 16:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 13:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 13:52	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98880	12/26/24 16:13	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99052	12/30/24 20:00	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-14 0.5'
Date Collected: 12/19/24 09:45
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 17:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 17:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 14:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 14:09	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		1			98951	12/28/24 00:27	CH	EET MID

Client Sample ID: S-10 0'
Date Collected: 12/19/24 10:21
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 17:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 17:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 14:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 14:25	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		1			98951	12/28/24 00:45	CH	EET MID

Client Sample ID: S-10 0.5'
Date Collected: 12/19/24 10:22
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 18:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 18:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 14:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 14:41	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		1			98951	12/28/24 00:51	CH	EET MID

Client Sample ID: S-7 1'
Date Collected: 12/19/24 12:15
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 18:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 18:27	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-7 1'
Date Collected: 12/19/24 12:15
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99344	01/02/25 14:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 14:57	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		10			98951	12/28/24 00:57	CH	EET MID

Client Sample ID: S-7 3'
Date Collected: 12/19/24 12:18
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 18:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 18:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 15:13	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		1			98951	12/28/24 01:03	CH	EET MID

Client Sample ID: S-8 1'
Date Collected: 12/19/24 13:17
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 19:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 19:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 15:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 15:29	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		10			98951	12/28/24 01:20	CH	EET MID

Client Sample ID: S-8 3'
Date Collected: 12/19/24 13:26
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 19:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 19:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 15:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 15:47	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-8 3'
Date Collected: 12/19/24 13:26
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		1			98951	12/28/24 01:26	CH	EET MID

Client Sample ID: S-9 1'
Date Collected: 12/20/24 08:50
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 19:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 19:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 16:18	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		20			98951	12/28/24 01:32	CH	EET MID

Client Sample ID: S-9 3'
Date Collected: 12/20/24 09:05
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 20:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 20:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 16:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 16:35	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		10			98951	12/28/24 01:38	CH	EET MID

Client Sample ID: S-13 0'
Date Collected: 12/20/24 10:04
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	98787	12/26/24 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98923	12/27/24 20:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/27/24 20:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 16:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 16:51	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		1			98951	12/28/24 01:44	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

Client Sample ID: S-13 0.5'
Date Collected: 12/20/24 10:07
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 17:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/30/24 17:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 17:07	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		1			98951	12/28/24 01:50	CH	EET MID

Client Sample ID: S-9 5'
Date Collected: 12/20/24 09:40
Date Received: 12/23/24 11:57

Lab Sample ID: 880-52592-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 17:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99116	12/30/24 17:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			99344	01/02/25 17:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 17:23	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		1			98951	12/28/24 02:07	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: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

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	06-30-25
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: Gravitas

Job ID: 880-52592-1
SDG: 24-0117-02

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: Gravitass

Job ID: 880-52592-1
SDG: 24-0117-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52592-1	S-1 1'	Solid	12/17/24 12:50	12/23/24 11:57
880-52592-2	S-1 3'	Solid	12/17/24 12:52	12/23/24 11:57
880-52592-3	S-1 5'	Solid	12/17/24 12:54	12/23/24 11:57
880-52592-4	S-1 7'	Solid	12/17/24 12:55	12/23/24 11:57
880-52592-5	S-1 10'	Solid	12/17/24 12:56	12/23/24 11:57
880-52592-6	S-11 0'	Solid	12/17/24 12:35	12/23/24 11:57
880-52592-7	S-11 0.5'	Solid	12/17/24 12:36	12/23/24 11:57
880-52592-8	S-2 1'	Solid	12/18/24 11:07	12/23/24 11:57
880-52592-9	S-2 3'	Solid	12/18/24 11:08	12/23/24 11:57
880-52592-10	S-2 5'	Solid	12/18/24 11:09	12/23/24 11:57
880-52592-11	S-2 7'	Solid	12/18/24 11:10	12/23/24 11:57
880-52592-12	S-2 10'	Solid	12/18/24 11:11	12/23/24 11:57
880-52592-13	S-3 1'	Solid	12/18/24 12:23	12/23/24 11:57
880-52592-14	S-3 3'	Solid	12/18/24 12:24	12/23/24 11:57
880-52592-15	S-3 5'	Solid	12/18/24 12:25	12/23/24 11:57
880-52592-16	S-3 7'	Solid	12/18/24 12:26	12/23/24 11:57
880-52592-17	S-3 10'	Solid	12/18/24 12:27	12/23/24 11:57
880-52592-18	S-5 1'	Solid	12/18/24 13:33	12/23/24 11:57
880-52592-19	S-5 3'	Solid	12/18/24 13:34	12/23/24 11:57
880-52592-20	S-5 5'	Solid	12/18/24 13:35	12/23/24 11:57
880-52592-21	S-5 7'	Solid	12/18/24 13:36	12/23/24 11:57
880-52592-22	S-5 10'	Solid	12/18/24 13:37	12/23/24 11:57
880-52592-23	S-12 0'	Solid	12/19/24 08:09	12/23/24 11:57
880-52592-24	S-12 0.5'	Solid	12/19/24 08:10	12/23/24 11:57
880-52592-25	S-12 1	Solid	12/19/24 08:11	12/23/24 11:57
880-52592-26	S-12 3	Solid	12/19/24 08:12	12/23/24 11:57
880-52592-27	S-12 5	Solid	12/19/24 08:13	12/23/24 11:57
880-52592-28	S-12 7	Solid	12/19/24 09:07	12/23/24 11:57
880-52592-29	S-12 10	Solid	12/19/24 09:08	12/23/24 11:57
880-52592-30	S-14 0'	Solid	12/19/24 09:44	12/23/24 11:57
880-52592-31	S-14 0.5'	Solid	12/19/24 09:45	12/23/24 11:57
880-52592-32	S-10 0'	Solid	12/19/24 10:21	12/23/24 11:57
880-52592-33	S-10 0.5'	Solid	12/19/24 10:22	12/23/24 11:57
880-52592-34	S-7 1'	Solid	12/19/24 12:15	12/23/24 11:57
880-52592-35	S-7 3'	Solid	12/19/24 12:18	12/23/24 11:57
880-52592-36	S-8 1'	Solid	12/19/24 13:17	12/23/24 11:57
880-52592-37	S-8 3'	Solid	12/19/24 13:26	12/23/24 11:57
880-52592-38	S-9 1'	Solid	12/20/24 08:50	12/23/24 11:57
880-52592-39	S-9 3'	Solid	12/20/24 09:05	12/23/24 11:57
880-52592-40	S-13 0'	Solid	12/20/24 10:04	12/23/24 11:57
880-52592-41	S-13 0.5'	Solid	12/20/24 10:07	12/23/24 11:57
880-52592-42	S-9 5'	Solid	12/20/24 09:40	12/23/24 11:57

[illegible]

Marson & 507 N. Marienfeld, Ste.

DATE: 12/23/2024 PAGE 2 OF 3
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: GRAVITAS
LAI PROJECT #: 24-0117-02 COLLECTOR: DSG + IR

LAI PROJECT #: 29-0117-02 COLLECTOR: USH & IK

Loc: 880
52592

[illegible]

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-52592-1

SDG Number: 24-0117-02

Login Number: 52592

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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

Appendix E

Photographic Documentation

Incident ID: nAPP2429640444
Delineation Report and Remediation Plan
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Produced Water Release
January 3, 2025



Area impacted by release on the pad, viewing to the west.



Area impacted by release on the pad, viewing to the west.

Incident ID: nAPP2429640444
Delineation Report and Remediation Plan
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Produced Water Release
January 3, 2025



Area impacted by release on the pad, viewing to the northwest.

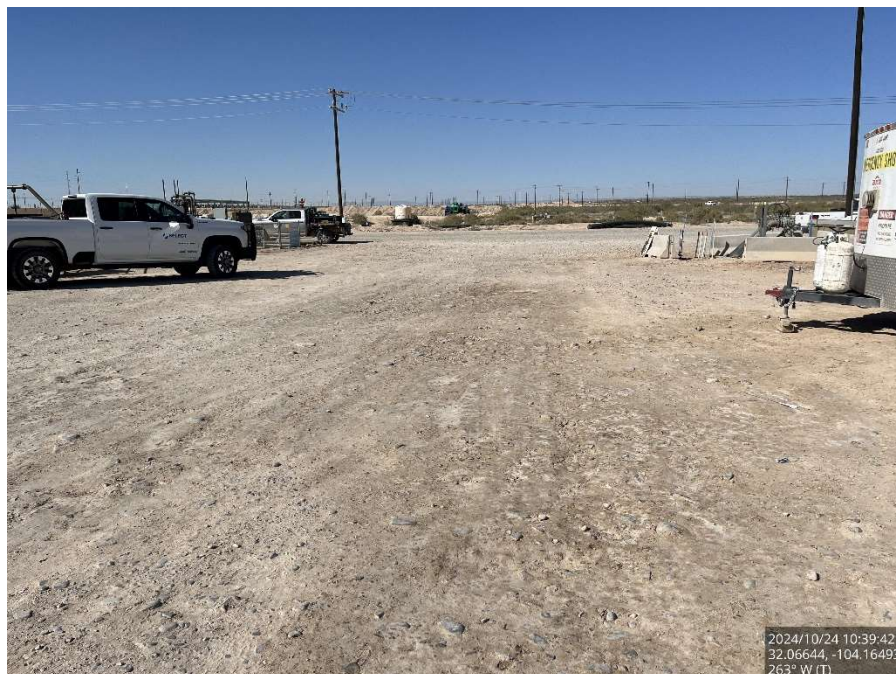


Area impacted by release on the pad, viewing to the northwest.

Incident ID: nAPP2429640444
Delineation Report and Remediation Plan
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Produced Water Release
January 3, 2025



Area impacted by release on the pad, viewing to the southwest.



Area impacted by release on the pad, viewing to the west.

Incident ID: nAPP2429640444
Delineation Report and Remediation Plan
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Produced Water Release
January 3, 2025



Area impacted by release on the pad, viewing to the west.



Area impacted by release on the pad, viewing to the southwest.

Incident ID: nAPP2429640444
Delineation Report and Remediation Plan
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Produced Water Release
January 3, 2025



Area impacted by release on the pad, viewing to the east.



Area impacted by release on the pad, viewing to the east.

Incident ID: nAPP2429640444
Delineation Report and Remediation Plan
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Produced Water Release
January 3, 2025



Area impacted by release on the pad, viewing to the northeast.

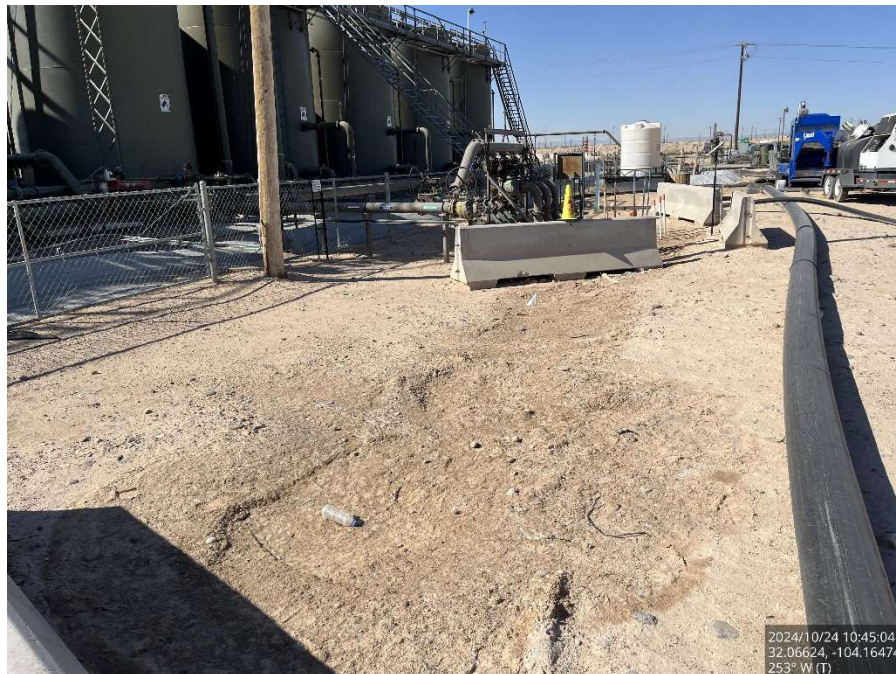


Area impacted by release on the pad, viewing to the east.

Incident ID: nAPP2429640444
Delineation Report and Remediation Plan
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Produced Water Release
January 3, 2025



Area impacted by release on the pad, viewing to the southwest.



Area impacted by release on the pad, viewing to the west.

Incident ID: nAPP2429640444
Delineation Report and Remediation Plan
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Produced Water Release
January 3, 2025



Area impacted by release on the pad, viewing to the southwest.



Area impacted by release on the pad, viewing to the west.

Incident ID: nAPP2429640444
Delineation Report and Remediation Plan
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Produced Water Release
January 3, 2025



Area impacted by release on the pad, viewing to the northwest.



Area impacted by release on the pad, viewing to the northwest.

Incident ID: nAPP2429640444
Delineation Report and Remediation Plan
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Produced Water Release
January 3, 2025



Area impacted by release on the pad, viewing to the north.

Sante Fe Main Office
Phone: (505) 476-3441

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

QUESTIONS

Action 420023

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 420023
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2429640444
Incident Name	NAPP2429640444 HAYHURST NM SECTION 2 SWD FACILITY (GRAVITAS SWD) @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2131342213] Hayhurst NM Section 2 SWD Facility

Location of Release Source*Please answer all the questions in this group.*

Site Name	Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Date Release Discovered	10/09/2024
Surface Owner	State

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: Equipment Failure Pump Produced Water Released: 8 BBL Recovered: 0 BBL Lost: 8 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.

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QUESTIONS, Page 2

Action 420023

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 420023
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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: 01/15/2025
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QUESTIONS, Page 3

Action 420023

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 420023
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 26 and 50 (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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between ½ and 1 (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	High
A 100-year floodplain	Between 1 and 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)	26800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3060
GRO+DRO (EPA SW-846 Method 8015M)	3060
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	03/01/2025
On what date will (or did) the final sampling or liner inspection occur	04/01/2025
On what date will (or was) the remediation complete(d)	04/15/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	6495
What is the estimated volume (in cubic yards) that will be remediated	389
<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>	

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QUESTIONS, Page 4

Action 420023

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 420023
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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: 01/15/2025
<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>	

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QUESTIONS, Page 5

Action 420023

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 420023
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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

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QUESTIONS, Page 6

Action 420023

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 420023
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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	No

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CONDITIONS

Action 420023

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 420023
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation plan is approved as written except with the following condition; 1. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, OXY must collect a minimum of one (1) 5pcs from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. 2. OXY has 90-days (April 28, 2025) to submit to OCD its appropriate or final remediation closure report.	1/24/2025