Incident ID: nAPP2514142619
Delineation Report and Remediation Plan
Hayhurst NM Section 2 SWD (Gravitas)
Produced Water Release
Eddy County, New Mexico

Latitude: 32.019736
Longitude: -104.14068

LAI Project No. 25-0101-02

August 27, 2025

Prepared for:

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

Prepared by:

Larson & Associates, Inc.
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Mark Larson
Certified Professional Geologist #10490

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Daniel St. Germain, P.G.
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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 , 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 May 12, 2025, and was caused by a valve failure, causing about twelve (12) barrels of produced water to be released onto the pad, over an area of about 2,980 square feet. None of the released fluid was recovered. 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 and spill calculation were submitted to the NMOCD District II on May 21, 2025, and was assigned incident number nAPP2514142619. 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 4.2 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.
- There nearest active water well for stock watering is located about 640 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 0.34 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 Biological Sensitive Areas and Cultural Properties Protection

The Site is located about three (3) miles north of an ephemeral drainage designated as management zone C in the Texas Hornshell Mussel CCAA (Candidate Conservation Agreements with Assurances). Additionally, potential habitats for three (3) sensitive plant species were identified near the Site, including Sheer's beehive catus, Wrights water willow, and Gypsum milkvetch. Potential habitats for Sheers beehive cactus bound the Site in each cardinal direction, with the nearest border located about 880 feet to the south. Potential habitat for Wrights water willow is located about one (1) mile to the east. Potential habitats for Gypsum milkvetch are located about 1.2 and 0.98 miles west and south of the Site, respectfully.

Remediation activities are to remain on land previously disturbed for oil and gas extraction and are not expected to impact areas that have not been previously disturbed. Should remediation be required to move offsite into undisturbed areas an ARMS (Archaeological Records Management Section) will be conducted, as well as a biological survey of the immediate area surrounding the Site, NMSLO ECO will be notified for approval.

1.4 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 May 14, 2025, LAI personnel used a stainless-steel hand auger to collect 11 samples from eight locations (S-1 through S-8), at surface level (0) and 0.5 feet bgs, depending on subsurface conditions. Five (5) locations (S-1 through S-5) were located inside of the spill area, and (3) locations (S-6 through S-8) were collected outside of the release to the north, west, and east; the east boundary of the release was located at the edge of a lined containment.

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. Benzene and BTEX were reported below the NMOCD remediation standards of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg, respectively, in all samples.

TPH was reported above the delineation limit of 100 mg/Kg in the lowermost samples from S-3 (476 mg/Kg) and S-4 (458 mg/Kg). Chloride was reported above the delineation limit of 600 mg/kg in the lowermost samples collected from S-1 (21,300 mg/Kg), S-2 (14,200 mg/Kg), S-3 (28,200 mg/Kg), S-4 (32,800 mg/Kg), and S-5 (22,800 mg/Kg).

On August 12, 2025, LAI personnel collected seven (7) samples from three locations (S-2, S-5, and S-9) at a half (0.5), one (1), and three (3) feet bgs, from a trench with a stainless-steel hand trowel. The samples were delivered under chain-of-custody and preservation to Eurofins in Carlsbad, New Mexico. Eurofins reported that the lowermost samples from each location were below delineation limits for benzene, BTEX, TPH, and chloride.

On August 19, 2025, LAI personnel collected seven (7) samples from three locations (S-1, S-3, and S-4) using a Geoprobe 7822DT direct push drill rig at a half (0.5), one (1), and three (3) feet bgs. The samples were delivered under chain-of-custody and preservation to Eurofins in Midland, Texas. Eurofins reported that the lowermost samples from each location were below delineation limits for benzene, BTEX, TPH, and chloride.

Laboratory results demonstrate that the release was fully delineated, apart from the east boundary due to proximity to the lined containment. A delineation/confirmation sample will be collected from this area during remediation activities. Table 1 presents the delineation soil sample analytical data table. Figure 4 presents the soil sample location map. Appendix D presents NMOCD delineation extension approval. Appendix E presents the laboratory reports. Appendix F presents the photographic documentation.

3.0 REMEDIATION PLAN

Chevron proposes the following remedial actions:

- Excavate about 294 cubic yards of impacted material from an area of about 3,387 square feet, including 1,902 square foot area bounding samples S-1, S-3, S-4, and S-9 to one (1) foot bgs, and a 1,485 square foot area bounding samples S-2 and S-5, to three (3) foot bgs.
- Field screen confirmation samples for chloride and TPH during remediation activities to determine if more/less soil is required to be excavated.
- Collect 21 composite confirmation samples from the bottom and sidewalls of the excavation, or about every 200 square feet, and one (1) composite sample from non-waste containing backfill material.
- Laboratory analysis of samples for BTEX, TPH, and chloride by NMOCD approved methods.
- Backfill excavation with non-waste containing soil to surface level, assuming all confirmation and backfill samples are below NMOCD closure criteria.
- Prepare closure report for submittal to the NMOCD.

Figure 3 presents the proposed excavation map.

Tables

Table 1
Delineation Sample Analytical Summary
Chevron - Gravitas SWD Spill 4
Eddy County, New Mexico
32.06637, -104.16509

Sample ID	Depth Feet	Collection Date	Benzene (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limits:			**10.0**	**50.0**				**100**	**600**
S-1	0	05/14/25	0.03850	0.18900	<49.9	94.6	<49.9	94.6	**21,300**
S-1	0.5	08/19/25	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	**737**
S-1	1	08/19/25	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	184
S-1	3	08/19/25	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	101
S-2	0	05/14/25	<0.00201	0.00502	<50.1	<50.1	<50.1	<50.1	**14,200**
S-2	0.5	08/12/25	<0.00200	<0.00399	<50.0	50.5	<50.0	50.5	**4,710**
S-2	1	08/12/25	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**3,980**
S-2	3	08/12/25	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	540
S-3	0	05/14/25	0.02370	0.07640	<49.7	517	<49.7	**517**	**24,000**
S-3	0.5	05/14/25	0.03920	0.14100	<50.0	476	<50.0	**476**	**28,200**
S-3	1	08/19/25	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	526
S-3	3	08/19/25	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	86.5
S-4	0	05/14/25	0.03840	0.26200	<50.1	305	<50.1	**305**	**29,000**
S-4	0.5	05/14/25	0.00235	0.02590	<50.3	458	<50.3	**458**	**32,800**
S-4	1	08/19/25	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	306
S-4	3	08/19/25	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	177
S-5	0	05/14/25	0.06890	0.46000	<49.7	<49.7	<49.7	<49.7	**36,200**
S-5	0.5	05/14/25	0.02450	0.30000	<49.8	<49.8	<49.8	<49.8	**22,800**
S-5	3	08/12/25	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	370
S-6	0	05/14/25	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	71.1
S-7	0	05/14/25	<0.00202	<0.00403	<50.2	<50.2	<50.2	<50.2	83.5
S-8	0	05/14/25	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	58.1
S-9	0.5	08/12/25	<0.00198	<0.00396	<49.8	61.2	<49.8	61.2	**1,510**
S-9	1	08/12/25	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	259
S-9	3	08/12/25	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	100

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-C-10)

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 delineation limits

Figures

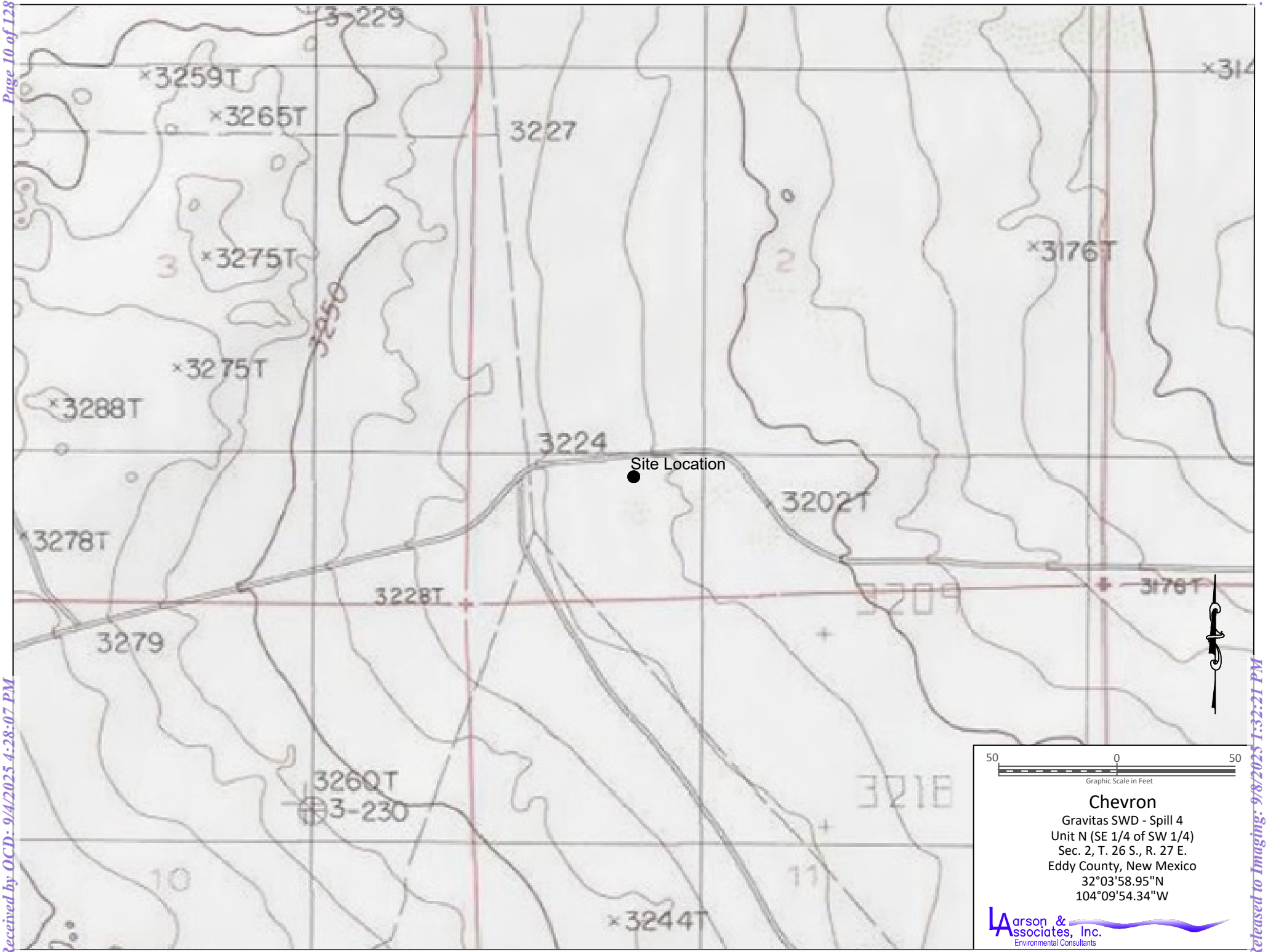

Figure 1 - Topographic Map

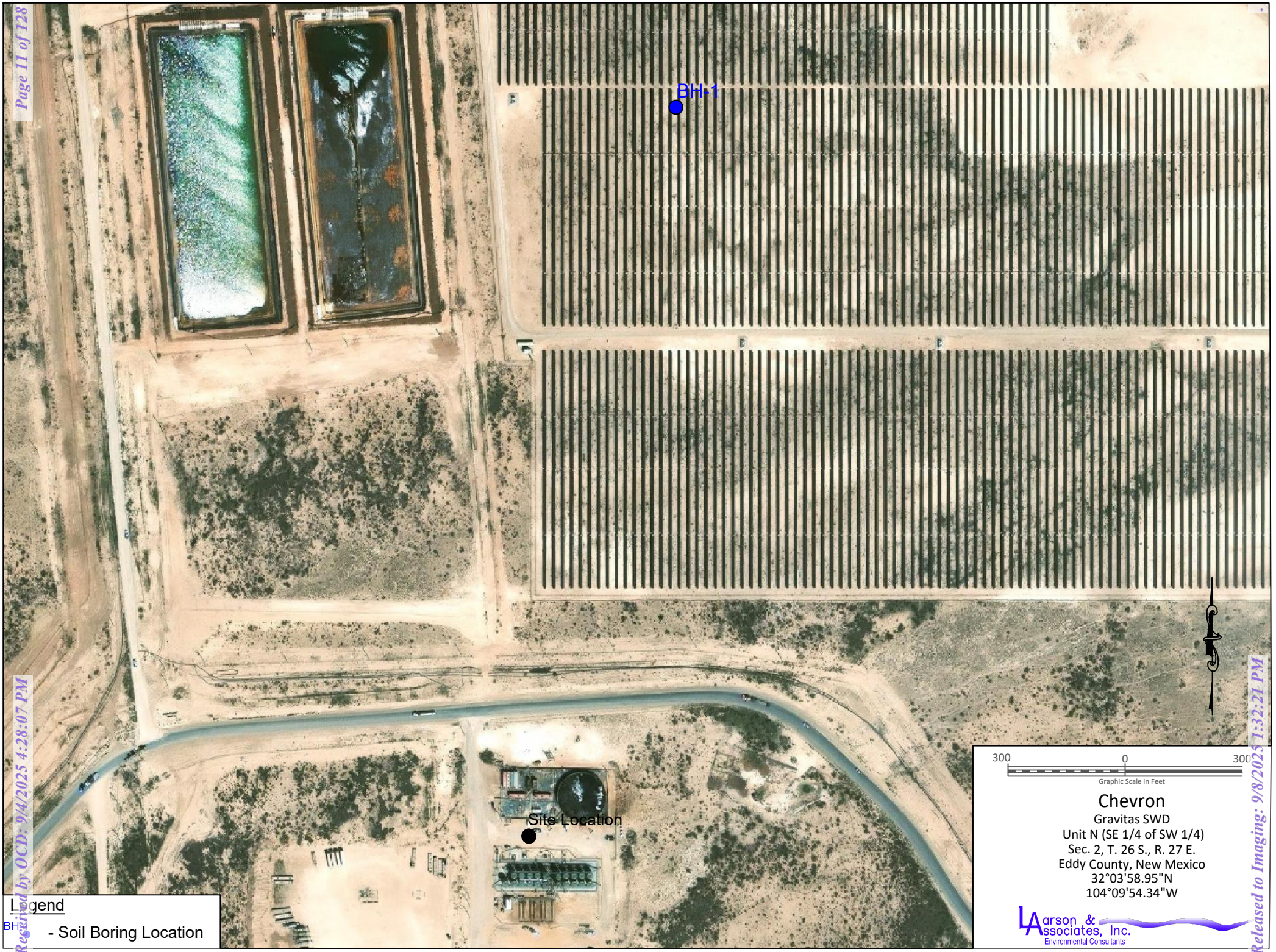

Figure 2 - Aerial Map Showing Soil Boring Location

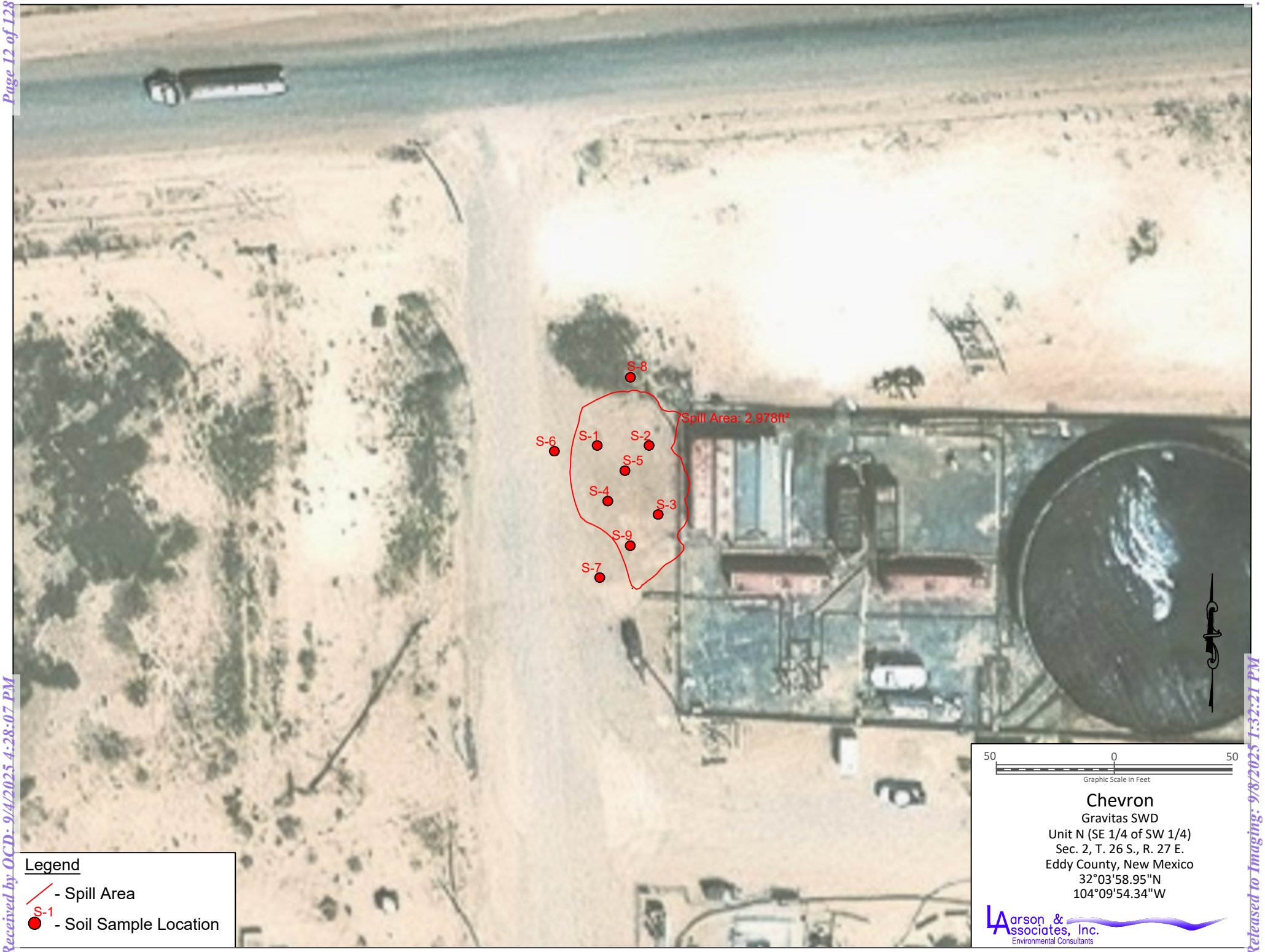

Figure 3 - Aerial Map

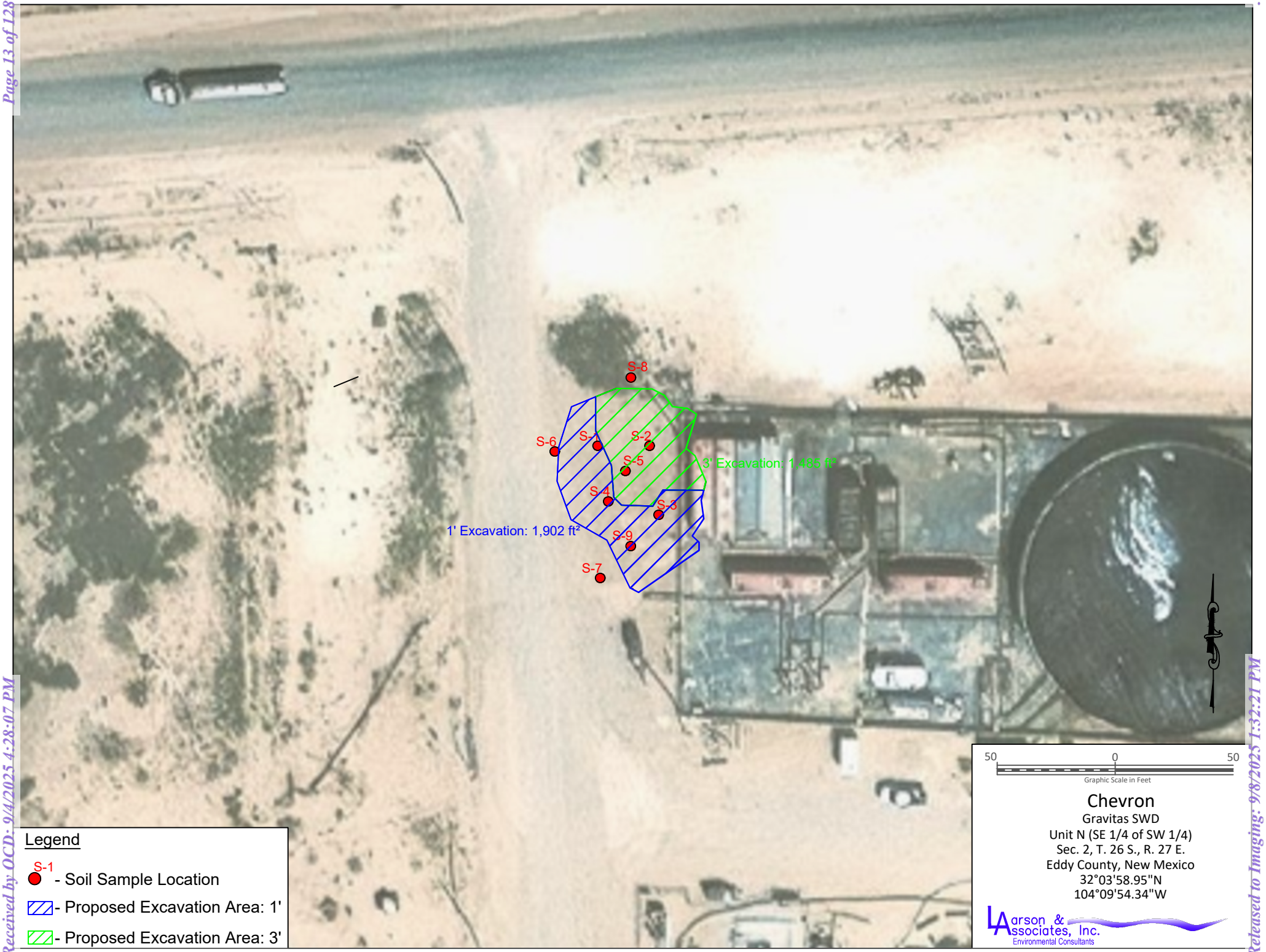

Figure 4 - Aerial Map Showing Proposed Excavation Areas

Appendix A

Initial C-141 and Spill Calculation

Spilled Material: Produced Water Only
Oil Released: 0 bbl
Oil Recovered: 0 bbl
Water Released: 11.648 bbl
Water Recovered: 0 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	Caliche	36 ft x 32 ft x .625 in	11.648 bbl	100%	0.000 bbl	.375 in	0.962 bbl	11.648 bbl
2					%				
3					%				
4					%				
5					%				
6					%				
7					%				
Rec Vol						0			0
Total Vol						0			11.648

Weather Conditions: Clear
Temperature: 77°F
Relative Humidity: 17%
Wind Direction: 239°
Wind Speed: 8 mph

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 465838
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2514142619**
Incident Name	**NAPP2514142619 HAYHURST NM SECTION 2 SWD (GRAVITAS) @ 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 (Gravitas)
Date Release Discovered	05/12/2025
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 | Valve | Produced Water | Released: 12 BBL | Recovered: 0 BBL | Lost: 12 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 (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 465838
	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: 05/21/2025

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 465838
	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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1220 S. St Francis Dr.
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CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 465838
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	None	5/21/2025

Appendix B

Karst Risk Potential Map


Whites City Rd
Whites City Rd
Whites City Rd
Whites City Rd
Whites City Rd
Whites City Rd
Windmill Oasis
Gravitas SWD
Willhoit Ranch Rd
Eddy County SWD
Storage Facility for...
Temporarily closed
775
775
LEGEND
Site Location
Karst Risk Potential
High
Medium
Low
0
100
200 ft

Appendix C

Boring Log

BORING RECORD

Start: 11:30
Finish: 12:30

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG
	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 7.5YR 6/8, Reddish Yellow, Subangular, 0.5-2.5cm Diameter Clast Inclusions	ML	
Depth to Water: 25.25	20			
	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		
	45			
	50		SM	

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

SAMPLE: NUMBER | PID READING | RECOVERY | DEPTH (1, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50)

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

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

JOB NUMBER : Chevron/ 20-0107-03
HOLE DIAMETER : 2"
LOCATION : 32°04'17.3600", -104°09'49.6600"
LAI GEOLOGIST : R. Nelson
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 04-29-2020

BORING NUMBER : BH-1

Appendix D

NMOCD Communications

Outlook

Fw: (Extension Approval) - Hayhurst NM Section 2 SWD Facility (Gravitas SWD) - nAPP2514142619

From Lincoln, Kennedy <Kennedy.Lincoln@chevron.com>
Date Thu 8/7/2025 8:24 AM
To Daniel St. Germain <dstgermain@laenvironmental.com>

Kennedy Lincoln
MCBU Environmental Specialist
Mid-Continent Business Unit (MCBU)
Chevron North America Exploration and Production Company
6301 Deauville Midland, TX
Mobile (432) 813-5384
Kennedy.Lincoln@chevron.com

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Thursday, August 7, 2025 8:20 AM
To: Lincoln, Kennedy <Kennedy.Lincoln@chevron.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: [**EXTERNAL**] (Extension Approval) - Hayhurst NM Section 2 SWD Facility (Gravitas SWD) - nAPP2514142619

RE: Incident **#NAPP2514142619 HAYHURST NM SECTION 2 SWD (GRAVITAS)**

Kennedy,

A 90-day extension is approved. Please have a remediation closure report uploaded to the OCD Permitting Portal no later than **November 5th, 2025**. Include this e-mail correspondence in the report.

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: Lincoln, Kennedy <Kennedy.Lincoln@chevron.com>
Sent: Wednesday, August 6, 2025 11:58 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Extension Request - Hayhurst NM Section 2 SWD Facility (Gravitas SWD) - nAPP2514142619

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To whom it may concern:

Chevron would like to request a 45-day extension (until September 25, 2025) to complete the additional delineation activities and associated remediation plan creation for Hayhurst NM Section 2 SWD Facility (Gravitas SWD) - nAPP2514142619. The original due date for this remediation plan/closure report is August 11, 2025.

Horizontal delineation of the spill footprint has been completed, however due to the hard subsurface conditions (indurated caliche), specialized equipment is required to collect additional vertical delineation soil samples to fully delineate the release. Chevron is requesting 45-day extension complete additional delineation activities at the site and prepare a delineation report and remediation plan for submittal to the NMOCD. Please let me know if you have questions.

Kennedy Lincoln
NM Region Environmental Specialist
Shale & Tight Business Unit
Chevron North America Exploration and Production Company
6301 Deauville Midland, TX
Mobile (432) 813-5384
Kennedy.Lincoln@chevron.com

Appendix E

Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/13/2025 12:43:40 PM

JOB DESCRIPTION

GRAVITAS SPILL 4
25-0101-02

JOB NUMBER

890-8619-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

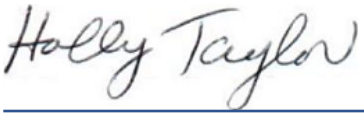
Eurofins Carlsbad

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



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8/13/2025 12:43:40 PM

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

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Laboratory Job ID: 890-8619-1
SDG: 25-0101-02

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-8619-1
Project/Site: GRAVITAS SPILL 4 SDG: 25-0101-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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. Job ID: 890-8619-1
Project: GRAVITAS SPILL 4

Job ID: 890-8619-1 Eurofins Carlsbad

Job Narrative
890-8619-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/12/2025 1:29 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S - 2 0.5 (890-8619-1), S - 2 1' (890-8619-2), S - 2 3' (890-8619-3), S - 5 3' (890-8619-4), S - 9 0.5' (890-8619-5), S - 9 1' (890-8619-6) and S - 9 3' (890-8619-7).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-116277 and 880-116564 and analytical batch 880-116443 was outside the upper control limits.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-116564 and analytical batch 880-116443 recovered outside control limits for the following analytes: o-Xylene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-116564 and analytical batch 880-116443 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.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-116565 and analytical batch 880-116591 was outside the upper control limits.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-116531 and analytical batch 880-116570 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.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

Client Sample ID: S - 2 0.5

Date Collected: 08/12/25 10:55
Date Received: 08/12/25 13:29

Lab Sample ID: 890-8619-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		08/12/25 20:32	08/13/25 05:01	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		08/12/25 20:32	08/13/25 05:01	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		08/12/25 20:32	08/13/25 05:01	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		08/12/25 20:32	08/13/25 05:01	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/12/25 20:32	08/13/25 05:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/12/25 20:32	08/13/25 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/12/25 20:32*	*08/13/25 05:01*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/12/25 20:32*	*08/13/25 05:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/13/25 05:01	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**50.5**		50.0		mg/Kg			08/13/25 11:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 11:10	1
Diesel Range Organics (Over C10-C28)	**50.5**		50.0		mg/Kg		08/13/25 07:27	08/13/25 11:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*08/13/25 07:27*	*08/13/25 11:10*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*08/13/25 07:27*	*08/13/25 11:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4710**		202		mg/Kg			08/13/25 10:50	20

Client Sample ID: S - 2 1'

Date Collected: 08/12/25 11:00
Date Received: 08/12/25 13:29

Lab Sample ID: 890-8619-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/12/25 20:32	08/13/25 05:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/12/25 20:32	08/13/25 05:22	1
Ethylbenzene	**0.00202**		0.00201		mg/Kg		08/12/25 20:32	08/13/25 05:22	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/12/25 20:32	08/13/25 05:22	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		08/12/25 20:32	08/13/25 05:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/12/25 20:32	08/13/25 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*08/12/25 20:32*	*08/13/25 05:22*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/12/25 20:32*	*08/13/25 05:22*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

Client Sample ID: S - 2 1'

Date Collected: 08/12/25 11:00
Date Received: 08/12/25 13:29

Lab Sample ID: 890-8619-2
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			08/13/25 05:22	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			08/13/25 11:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 11:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 11:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*08/13/25 07:27*	*08/13/25 11:56*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*08/13/25 07:27*	*08/13/25 11:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3980**	**F1**	49.8		mg/Kg			08/13/25 10:56	5

Client Sample ID: S - 2 3'

Date Collected: 08/12/25 11:02
Date Received: 08/12/25 13:29

Lab Sample ID: 890-8619-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/12/25 20:32	08/13/25 05:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/12/25 20:32	08/13/25 05:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/12/25 20:32	08/13/25 05:42	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		08/12/25 20:32	08/13/25 05:42	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		08/12/25 20:32	08/13/25 05:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/12/25 20:32	08/13/25 05:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*08/12/25 20:32*	*08/13/25 05:42*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/12/25 20:32*	*08/13/25 05:42*	*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			08/13/25 05:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/13/25 12:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U	49.9		mg/Kg		08/13/25 07:27	08/13/25 12:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/13/25 07:27	08/13/25 12:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/13/25 07:27	08/13/25 12:11	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 890-8619-1
Project/Site: GRAVITAS SPILL 4 SDG: 25-0101-02

Client Sample ID: S - 2 3' — Lab Sample ID: 890-8619-3

Date Collected: 08/12/25 11:02 **Matrix: Solid**
Date Received: 08/12/25 13:29

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	*101*		*70 - 130*	*08/13/25 07:27*	*08/13/25 12:11*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*08/13/25 07:27*	*08/13/25 12:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**540**		49.7		mg/Kg			08/13/25 11:13	5

Client Sample ID: S - 5 3' — Lab Sample ID: 890-8619-4

Date Collected: 08/12/25 11:11 **Matrix: Solid**
Date Received: 08/12/25 13:29

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		08/12/25 20:32	08/13/25 06:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/12/25 20:32	08/13/25 06:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/12/25 20:32	08/13/25 06:03	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/12/25 20:32	08/13/25 06:03	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		08/12/25 20:32	08/13/25 06:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/12/25 20:32	08/13/25 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*08/12/25 20:32*	*08/13/25 06:03*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/12/25 20:32*	*08/13/25 06:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/13/25 06:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/13/25 12:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 12:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 12:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	*102*		*70 - 130*	*08/13/25 07:27*	*08/13/25 12:28*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*08/13/25 07:27*	*08/13/25 12:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**370**		10.0		mg/Kg			08/13/25 11:18	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

Client Sample ID: S - 9 0.5'

Lab Sample ID: 890-8619-5
Matrix: Solid
Date Collected: 08/12/25 11:20
Date Received: 08/12/25 13:29

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		08/12/25 20:32	08/13/25 06:23	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/12/25 20:32	08/13/25 06:23	1
Ethylbenzene	**0.00281**		0.00198		mg/Kg		08/12/25 20:32	08/13/25 06:23	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		08/12/25 20:32	08/13/25 06:23	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		08/12/25 20:32	08/13/25 06:23	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/12/25 20:32	08/13/25 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*184*	*S1+*	*70 - 130*	*08/12/25 20:32*	*08/13/25 06:23*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/12/25 20:32*	*08/13/25 06:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/13/25 06:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**61.2**		49.8		mg/Kg			08/13/25 12:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U	49.8		mg/Kg		08/13/25 07:27	08/13/25 12:43	1
Diesel Range Organics (Over C10-C28)	**61.2**		49.8		mg/Kg		08/13/25 07:27	08/13/25 12:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/13/25 07:27	08/13/25 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*08/13/25 07:27*	*08/13/25 12:43*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*08/13/25 07:27*	*08/13/25 12:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1510**		50.1		mg/Kg			08/13/25 11:35	5

Client Sample ID: S - 9 1'

Lab Sample ID: 890-8619-6
Matrix: Solid
Date Collected: 08/12/25 11:22
Date Received: 08/12/25 13:29

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		08/12/25 20:32	08/13/25 06:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/12/25 20:32	08/13/25 06:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/12/25 20:32	08/13/25 06:44	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/12/25 20:32	08/13/25 06:44	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		08/12/25 20:32	08/13/25 06:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/12/25 20:32	08/13/25 06:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*08/12/25 20:32*	*08/13/25 06:44*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/12/25 20:32*	*08/13/25 06:44*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

Client Sample ID: S - 9 1'

Lab Sample ID: 890-8619-6
Matrix: Solid
Date Collected: 08/12/25 11:22
Date Received: 08/12/25 13:29

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			08/13/25 06:44	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			08/13/25 13:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 13:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 13:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*08/13/25 07:27*	*08/13/25 13:10*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*08/13/25 07:27*	*08/13/25 13:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**259**		10.1		mg/Kg			08/13/25 11:41	1

Client Sample ID: S - 9 3'

Lab Sample ID: 890-8619-7
Matrix: Solid
Date Collected: 08/12/25 11:23
Date Received: 08/12/25 13:29

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		08/12/25 20:32	08/13/25 07:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/12/25 20:32	08/13/25 07:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/12/25 20:32	08/13/25 07:04	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		08/12/25 20:32	08/13/25 07:04	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		08/12/25 20:32	08/13/25 07:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/12/25 20:32	08/13/25 07:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*08/12/25 20:32*	*08/13/25 07:04*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*08/12/25 20:32*	*08/13/25 07:04*	*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			08/13/25 07:04	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			08/13/25 11:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		08/13/25 07:29	08/13/25 11:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/13/25 07:29	08/13/25 11:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/13/25 07:29	08/13/25 11:10	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

Client Sample ID: S - 9 3'
Date Collected: 08/12/25 11:23
Date Received: 08/12/25 13:29

Lab Sample ID: 890-8619-7
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130	08/13/25 07:29	08/13/25 11:10	1
o-Terphenyl (Surr)	125		70 - 130	08/13/25 07:29	08/13/25 11:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		9.96		mg/Kg			08/13/25 11:47	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

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)
890-8619-1	S - 2 0.5	118	111
890-8619-1 MS	S - 2 0.5	117	104
890-8619-1 MSD	S - 2 0.5	123	101
890-8619-2	S - 2 1'	139 S1+	105
890-8619-3	S - 2 3'	151 S1+	112
890-8619-4	S - 5 3'	137 S1+	106
890-8619-5	S - 9 0.5'	184 S1+	113
890-8619-6	S - 9 1'	144 S1+	104
890-8619-7	S - 9 3'	151 S1+	118
LCS 880-116564/1-A	Lab Control Sample	120	110
LCSD 880-116564/2-A	Lab Control Sample Dup	121	105
MB 880-116277/5-A	Method Blank	170 S1+	90
MB 880-116564/5-A	Method Blank	156 S1+	82

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)
890-8619-1	S - 2 0.5	103	109
890-8619-1 MS	S - 2 0.5	108	108
890-8619-1 MSD	S - 2 0.5	107	106
890-8619-2	S - 2 1'	100	116
890-8619-3	S - 2 3'	101	115
890-8619-4	S - 5 3'	102	115
890-8619-5	S - 9 0.5'	91	98
890-8619-6	S - 9 1'	97	111
890-8619-7	S - 9 3'	116	125
890-8619-7 MS	S - 9 3'	122	117
890-8619-7 MSD	S - 9 3'	121	117
LCS 880-116565/2-A	Lab Control Sample	72	76
LCS 880-116566/2-A	Lab Control Sample	82	80
LCSD 880-116565/3-A	Lab Control Sample Dup	70	74
LCSD 880-116566/3-A	Lab Control Sample Dup	82	79
MB 880-116565/1-A	Method Blank	129	147 S1+
MB 880-116566/1-A	Method Blank	72	80

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-116277/5-A
Matrix: Solid
Analysis Batch: 116443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 116277

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 15:53	08/12/25 16:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 15:53	08/12/25 16:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 15:53	08/12/25 16:55	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/08/25 15:53	08/12/25 16:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/25 15:53	08/12/25 16:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/25 15:53	08/12/25 16:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*	*08/08/25 15:53*	*08/12/25 16:55*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/08/25 15:53*	*08/12/25 16:55*	*1*

Lab Sample ID: MB 880-116564/5-A
Matrix: Solid
Analysis Batch: 116443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 116564

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/12/25 20:32	08/13/25 04:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/12/25 20:32	08/13/25 04:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/12/25 20:32	08/13/25 04:33	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/12/25 20:32	08/13/25 04:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/12/25 20:32	08/13/25 04:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/12/25 20:32	08/13/25 04:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*156*	*S1+*	*70 - 130*	*08/12/25 20:32*	*08/13/25 04:33*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*08/12/25 20:32*	*08/13/25 04:33*	*1*

Lab Sample ID: LCS 880-116564/1-A
Matrix: Solid
Analysis Batch: 116443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 116564

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1098		mg/Kg		110	70 - 130		
Toluene			0.100	0.09577		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09599		mg/Kg		96	70 - 130		
m,p-Xylenes			0.200	0.2207		mg/Kg		110	70 - 130		
o-Xylene			0.100	0.1299		mg/Kg		130	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 880-116564/2-A
Matrix: Solid
Analysis Batch: 116443

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 116564

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1087		mg/Kg		109	70 - 130	1	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

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

Lab Sample ID: LCSD 880-116564/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 116443 — **Prep Batch: 116564**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09709		mg/Kg		97	70 - 130	1	35
Ethylbenzene			0.100	0.09515		mg/Kg		95	70 - 130	1	35
m,p-Xylenes			0.200	0.2296		mg/Kg		115	70 - 130	4	35
o-Xylene			0.100	0.1414	*+	mg/Kg		141	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-8619-1 MS — **Client Sample ID: S - 2 0.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 116443 — **Prep Batch: 116564**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.100	0.08710		mg/Kg		87	70 - 130
Toluene	<0.00200	U F1	0.100	0.08192		mg/Kg		82	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.06942	F1	mg/Kg		68	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.1649		mg/Kg		82	70 - 130
o-Xylene	<0.00200	U *+	0.100	0.1032		mg/Kg		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-8619-1 MSD — **Client Sample ID: S - 2 0.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 116443 — **Prep Batch: 116564**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.06900	F1	mg/Kg		69	70 - 130	23	35
Toluene	<0.00200	U F1	0.100	0.06012	F1	mg/Kg		60	70 - 130	31	35
Ethylbenzene	<0.00200	U F1	0.100	0.05990	F1	mg/Kg		59	70 - 130	15	35
m,p-Xylenes	<0.00399	U	0.200	0.1520		mg/Kg		76	70 - 130	8	35
o-Xylene	<0.00200	U *+	0.100	0.08270		mg/Kg		83	70 - 130	22	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-116565/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 116591 — **Prep Batch: 116565**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 08:06	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

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

Lab Sample ID: MB 880-116565/1-A
Matrix: Solid
Analysis Batch: 116591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 116565

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 08:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/13/25 07:27	08/13/25 08:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*129*		*70 - 130*	*08/13/25 07:27*	*08/13/25 08:06*	*1*
o-Terphenyl (Surr)	*147*	*S1+*	*70 - 130*	*08/13/25 07:27*	*08/13/25 08:06*	*1*

Lab Sample ID: LCS 880-116565/2-A
Matrix: Solid
Analysis Batch: 116591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 116565

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)			1000	1122		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1034		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*72*		*70 - 130*
o-Terphenyl (Surr)	*76*		*70 - 130*

Lab Sample ID: LCSD 880-116565/3-A
Matrix: Solid
Analysis Batch: 116591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 116565

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)			1000	1097		mg/Kg		110	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	963.7		mg/Kg		96	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*70*		*70 - 130*
o-Terphenyl (Surr)	*74*		*70 - 130*

Lab Sample ID: 890-8619-1 MS
Matrix: Solid
Analysis Batch: 116591

Client Sample ID: S - 2 0.5
Prep Type: Total/NA
Prep Batch: 116565

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)	<50.0	U	999	911.5		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	50.5		999	886.5		mg/Kg		84	70 - 130		

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

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

Lab Sample ID: 890-8619-1 MSD
Matrix: Solid
Analysis Batch: 116591

Client Sample ID: S - 2 0.5
Prep Type: Total/NA
Prep Batch: 116565

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	<50.0	U	999	910.1		mg/Kg		91	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	50.5		999	873.9		mg/Kg		82	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*107*		*70 - 130*
o-Terphenyl (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-116566/1-A
Matrix: Solid
Analysis Batch: 116593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 116566

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		08/13/25 07:29	08/13/25 08:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/13/25 07:29	08/13/25 08:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/13/25 07:29	08/13/25 08:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*72*		*70 - 130*	*08/13/25 07:29*	*08/13/25 08:06*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*08/13/25 07:29*	*08/13/25 08:06*	*1*

Lab Sample ID: LCS 880-116566/2-A
Matrix: Solid
Analysis Batch: 116593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 116566

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)			1000	1101		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1088		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*82*		*70 - 130*
o-Terphenyl (Surr)	*80*		*70 - 130*

Lab Sample ID: LCSD 880-116566/3-A
Matrix: Solid
Analysis Batch: 116593

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 116566

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)			1000	1094		mg/Kg		109	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1045		mg/Kg		105	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*82*		*70 - 130*
o-Terphenyl (Surr)	*79*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

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

Lab Sample ID: 890-8619-7 MS
Matrix: Solid
Analysis Batch: 116593

Client Sample ID: S - 9 3'
Prep Type: Total/NA
Prep Batch: 116566

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)	<50.0	U	1000	918.7		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	984.2		mg/Kg		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*122*		*70 - 130*
o-Terphenyl (Surr)	*117*		*70 - 130*

Lab Sample ID: 890-8619-7 MSD
Matrix: Solid
Analysis Batch: 116593

Client Sample ID: S - 9 3'
Prep Type: Total/NA
Prep Batch: 116566

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	<50.0	U	1000	902.2		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1013		mg/Kg		101	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*121*		*70 - 130*
o-Terphenyl (Surr)	*117*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116531/1-A
Matrix: Solid
Analysis Batch: 116570

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			08/13/25 09:19	1

Lab Sample ID: LCS 880-116531/2-A
Matrix: Solid
Analysis Batch: 116570

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	229.7		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-116531/3-A
Matrix: Solid
Analysis Batch: 116570

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	227.7		mg/Kg		91	90 - 110	1	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8619-2 MS
Matrix: Solid
Analysis Batch: 116570

Client Sample ID: S - 2 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3980	F1	1250	5718	F1	mg/Kg		140	90 - 110

Lab Sample ID: 890-8619-2 MSD
Matrix: Solid
Analysis Batch: 116570

Client Sample ID: S - 2 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3980	F1	1250	5735	F1	mg/Kg		141	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

GC VOA

Prep Batch: 116277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-116277/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 116443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8619-1	S - 2 0.5	Total/NA	Solid	8021B	116564
890-8619-2	S - 2 1'	Total/NA	Solid	8021B	116564
890-8619-3	S - 2 3'	Total/NA	Solid	8021B	116564
890-8619-4	S - 5 3'	Total/NA	Solid	8021B	116564
890-8619-5	S - 9 0.5'	Total/NA	Solid	8021B	116564
890-8619-6	S - 9 1'	Total/NA	Solid	8021B	116564
890-8619-7	S - 9 3'	Total/NA	Solid	8021B	116564
MB 880-116277/5-A	Method Blank	Total/NA	Solid	8021B	116277
MB 880-116564/5-A	Method Blank	Total/NA	Solid	8021B	116564
LCS 880-116564/1-A	Lab Control Sample	Total/NA	Solid	8021B	116564
LCSD 880-116564/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116564
890-8619-1 MS	S - 2 0.5	Total/NA	Solid	8021B	116564
890-8619-1 MSD	S - 2 0.5	Total/NA	Solid	8021B	116564

Prep Batch: 116564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8619-1	S - 2 0.5	Total/NA	Solid	5035	
890-8619-2	S - 2 1'	Total/NA	Solid	5035	
890-8619-3	S - 2 3'	Total/NA	Solid	5035	
890-8619-4	S - 5 3'	Total/NA	Solid	5035	
890-8619-5	S - 9 0.5'	Total/NA	Solid	5035	
890-8619-6	S - 9 1'	Total/NA	Solid	5035	
890-8619-7	S - 9 3'	Total/NA	Solid	5035	
MB 880-116564/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116564/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116564/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8619-1 MS	S - 2 0.5	Total/NA	Solid	5035	
890-8619-1 MSD	S - 2 0.5	Total/NA	Solid	5035	

Analysis Batch: 116621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8619-1	S - 2 0.5	Total/NA	Solid	Total BTEX	
890-8619-2	S - 2 1'	Total/NA	Solid	Total BTEX	
890-8619-3	S - 2 3'	Total/NA	Solid	Total BTEX	
890-8619-4	S - 5 3'	Total/NA	Solid	Total BTEX	
890-8619-5	S - 9 0.5'	Total/NA	Solid	Total BTEX	
890-8619-6	S - 9 1'	Total/NA	Solid	Total BTEX	
890-8619-7	S - 9 3'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8619-1	S - 2 0.5	Total/NA	Solid	8015NM Prep	
890-8619-2	S - 2 1'	Total/NA	Solid	8015NM Prep	
890-8619-3	S - 2 3'	Total/NA	Solid	8015NM Prep	
890-8619-4	S - 5 3'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

GC Semi VOA (Continued)

Prep Batch: 116565 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8619-5	S - 9 0.5'	Total/NA	Solid	8015NM Prep	
890-8619-6	S - 9 1'	Total/NA	Solid	8015NM Prep	
MB 880-116565/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116565/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116565/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8619-1 MS	S - 2 0.5	Total/NA	Solid	8015NM Prep	
890-8619-1 MSD	S - 2 0.5	Total/NA	Solid	8015NM Prep	

Prep Batch: 116566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8619-7	S - 9 3'	Total/NA	Solid	8015NM Prep	
MB 880-116566/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116566/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116566/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8619-7 MS	S - 9 3'	Total/NA	Solid	8015NM Prep	
890-8619-7 MSD	S - 9 3'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8619-1	S - 2 0.5	Total/NA	Solid	8015B NM	116565
890-8619-2	S - 2 1'	Total/NA	Solid	8015B NM	116565
890-8619-3	S - 2 3'	Total/NA	Solid	8015B NM	116565
890-8619-4	S - 5 3'	Total/NA	Solid	8015B NM	116565
890-8619-5	S - 9 0.5'	Total/NA	Solid	8015B NM	116565
890-8619-6	S - 9 1'	Total/NA	Solid	8015B NM	116565
MB 880-116565/1-A	Method Blank	Total/NA	Solid	8015B NM	116565
LCS 880-116565/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116565
LCSD 880-116565/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116565
890-8619-1 MS	S - 2 0.5	Total/NA	Solid	8015B NM	116565
890-8619-1 MSD	S - 2 0.5	Total/NA	Solid	8015B NM	116565

Analysis Batch: 116593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8619-7	S - 9 3'	Total/NA	Solid	8015B NM	116566
MB 880-116566/1-A	Method Blank	Total/NA	Solid	8015B NM	116566
LCS 880-116566/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116566
LCSD 880-116566/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116566
890-8619-7 MS	S - 9 3'	Total/NA	Solid	8015B NM	116566
890-8619-7 MSD	S - 9 3'	Total/NA	Solid	8015B NM	116566

Analysis Batch: 116631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8619-1	S - 2 0.5	Total/NA	Solid	8015 NM	
890-8619-2	S - 2 1'	Total/NA	Solid	8015 NM	
890-8619-3	S - 2 3'	Total/NA	Solid	8015 NM	
890-8619-4	S - 5 3'	Total/NA	Solid	8015 NM	
890-8619-5	S - 9 0.5'	Total/NA	Solid	8015 NM	
890-8619-6	S - 9 1'	Total/NA	Solid	8015 NM	
890-8619-7	S - 9 3'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

HPLC/IC

Leach Batch: 116531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8619-1	S - 2 0.5	Soluble	Solid	DI Leach	
890-8619-2	S - 2 1'	Soluble	Solid	DI Leach	
890-8619-3	S - 2 3'	Soluble	Solid	DI Leach	
890-8619-4	S - 5 3'	Soluble	Solid	DI Leach	
890-8619-5	S - 9 0.5'	Soluble	Solid	DI Leach	
890-8619-6	S - 9 1'	Soluble	Solid	DI Leach	
890-8619-7	S - 9 3'	Soluble	Solid	DI Leach	
MB 880-116531/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116531/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116531/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8619-2 MS	S - 2 1'	Soluble	Solid	DI Leach	
890-8619-2 MSD	S - 2 1'	Soluble	Solid	DI Leach	

Analysis Batch: 116570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8619-1	S - 2 0.5	Soluble	Solid	300.0	116531
890-8619-2	S - 2 1'	Soluble	Solid	300.0	116531
890-8619-3	S - 2 3'	Soluble	Solid	300.0	116531
890-8619-4	S - 5 3'	Soluble	Solid	300.0	116531
890-8619-5	S - 9 0.5'	Soluble	Solid	300.0	116531
890-8619-6	S - 9 1'	Soluble	Solid	300.0	116531
890-8619-7	S - 9 3'	Soluble	Solid	300.0	116531
MB 880-116531/1-A	Method Blank	Soluble	Solid	300.0	116531
LCS 880-116531/2-A	Lab Control Sample	Soluble	Solid	300.0	116531
LCSD 880-116531/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116531
890-8619-2 MS	S - 2 1'	Soluble	Solid	300.0	116531
890-8619-2 MSD	S - 2 1'	Soluble	Solid	300.0	116531

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

Client Sample ID: S - 2 0.5

Lab Sample ID: 890-8619-1
Matrix: Solid
Date Collected: 08/12/25 10:55
Date Received: 08/12/25 13:29

Prep 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	116564	08/12/25 20:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/13/25 05:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116621	08/13/25 05:01	SA	EET MID
Total/NA	Analysis	8015 NM		1			116631	08/13/25 11:10	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	116565	08/13/25 07:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116591	08/13/25 11:10	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116531	08/12/25 16:06	SMC	EET MID
Soluble	Analysis	300.0		20			116570	08/13/25 10:50	CS	EET MID

Client Sample ID: S - 2 1'

Lab Sample ID: 890-8619-2
Matrix: Solid
Date Collected: 08/12/25 11:00
Date Received: 08/12/25 13:29

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	116564	08/12/25 20:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/13/25 05:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116621	08/13/25 05:22	SA	EET MID
Total/NA	Analysis	8015 NM		1			116631	08/13/25 11:56	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	116565	08/13/25 07:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116591	08/13/25 11:56	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116531	08/12/25 16:06	SMC	EET MID
Soluble	Analysis	300.0		5			116570	08/13/25 10:56	CS	EET MID

Client Sample ID: S - 2 3'

Lab Sample ID: 890-8619-3
Matrix: Solid
Date Collected: 08/12/25 11:02
Date Received: 08/12/25 13:29

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	116564	08/12/25 20:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/13/25 05:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116621	08/13/25 05:42	SA	EET MID
Total/NA	Analysis	8015 NM		1			116631	08/13/25 12:11	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116565	08/13/25 07:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116591	08/13/25 12:11	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	116531	08/12/25 16:06	SMC	EET MID
Soluble	Analysis	300.0		5			116570	08/13/25 11:13	CS	EET MID

Client Sample ID: S - 5 3'

Lab Sample ID: 890-8619-4
Matrix: Solid
Date Collected: 08/12/25 11:11
Date Received: 08/12/25 13:29

Prep 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	116564	08/12/25 20:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/13/25 06:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116621	08/13/25 06:03	SA	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

Client Sample ID: S - 5 3'

Lab Sample ID: 890-8619-4
Matrix: Solid
Date Collected: 08/12/25 11:11
Date Received: 08/12/25 13:29

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			116631	08/13/25 12:28	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116565	08/13/25 07:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116591	08/13/25 12:28	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	116531	08/12/25 16:06	SMC	EET MID
Soluble	Analysis	300.0		1			116570	08/13/25 11:18	CS	EET MID

Client Sample ID: S - 9 0.5'

Lab Sample ID: 890-8619-5
Matrix: Solid
Date Collected: 08/12/25 11:20
Date Received: 08/12/25 13:29

Prep 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	116564	08/12/25 20:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/13/25 06:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116621	08/13/25 06:23	SA	EET MID
Total/NA	Analysis	8015 NM		1			116631	08/13/25 12:43	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116565	08/13/25 07:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116591	08/13/25 12:43	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	116531	08/12/25 16:06	SMC	EET MID
Soluble	Analysis	300.0		5			116570	08/13/25 11:35	CS	EET MID

Client Sample ID: S - 9 1'

Lab Sample ID: 890-8619-6
Matrix: Solid
Date Collected: 08/12/25 11:22
Date Received: 08/12/25 13:29

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	116564	08/12/25 20:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/13/25 06:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116621	08/13/25 06:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			116631	08/13/25 13:10	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116565	08/13/25 07:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116591	08/13/25 13:10	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116531	08/12/25 16:06	SMC	EET MID
Soluble	Analysis	300.0		1			116570	08/13/25 11:41	CS	EET MID

Client Sample ID: S - 9 3'

Lab Sample ID: 890-8619-7
Matrix: Solid
Date Collected: 08/12/25 11:23
Date Received: 08/12/25 13:29

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	116564	08/12/25 20:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/13/25 07:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116621	08/13/25 07:04	SA	EET MID
Total/NA	Analysis	8015 NM		1			116631	08/13/25 11:10	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	116566	08/13/25 07:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116593	08/13/25 11:10	TKC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: GRAVITAS SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

Client Sample ID: S - 9 3'
Date Collected: 08/12/25 11:23
Date Received: 08/12/25 13:29

Lab Sample ID: 890-8619-7
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			5.02 g	50 mL	116531	08/12/25 16:06	SMC	EET MID
Soluble	Analysis	300.0		1			116570	08/13/25 11:47	CS	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 SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

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	06-30-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc. Job ID: 890-8619-1
Project/Site: GRAVITAS SPILL 4 SDG: 25-0101-02

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 SPILL 4

Job ID: 890-8619-1
SDG: 25-0101-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
890-8619-1	S - 2 0.5	Solid	08/12/25 10:55	08/12/25 13:29	New Mexico
890-8619-2	S - 2 1'	Solid	08/12/25 11:00	08/12/25 13:29	New Mexico
890-8619-3	S - 2 3'	Solid	08/12/25 11:02	08/12/25 13:29	New Mexico
890-8619-4	S - 5 3'	Solid	08/12/25 11:11	08/12/25 13:29	New Mexico
890-8619-5	S - 9 0.5'	Solid	08/12/25 11:20	08/12/25 13:29	New Mexico
890-8619-6	S - 9 1'	Solid	08/12/25 11:22	08/12/25 13:29	New Mexico
890-8619-7	S - 9 3'	Solid	08/12/25 11:23	08/12/25 13:29	New Mexico

No. 3629

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 8/12/2025 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: GRAVITAS SPILL 4

LAI PROJECT #: 25-0101-02 COLLECTOR: DSG

Data Reported to: Daniel St Germain

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT NM

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	TRPH 418.1	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	8081 PESTICIDES	8082 PCBS	TCLP - METALS (RCRA)	TOTAL METALS (RCRA)	LEAD - TOTAL	RCI	TDS	pH	CHLORIDE	FIELD NOTES
S-2 0.5'		8/12/25	1055	S							X		X	X	X									X	
S-2 1'			1107																						
S-2 3'			1107																						
S-5 3'			1111																						
S-9 0.5'			1120																						
S-9 1'			1122																						
S-9 3'			1123																						

890-8619 Chain of Custody

TOTAL 7

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Daniel St Germain	8/12/25	Brent 8/12 1329
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: ENVIROTECH

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

TURN00 7-0.2 38 3.6

LABORATORY USE ONLY:
RECEIVING TEMP: ____ THERM#: ____
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # ____
☐ HAND DELIVERED

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Taylor, Holly	Carrier Tracking No(s): N/A	COC No: 890-5666.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Holly.Taylor@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8619-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 8/13/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: GRAVITAS SPILL 4	Project #: 88000254			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep(MOD) Full TPH	300_ORGFM_28D/DI_LEACHChloride	8021B/5035FP_Calc(MOD) BTEX - LL	8015MOD_Calc	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
S - 2 0.5 (890-8619-1)	8/12/25	10:55 Mountain	G	Solid			X	X	X	X	X	1	
S - 2 1' (890-8619-2)	8/12/25	11:00 Mountain	G	Solid			X	X	X	X	X	1	
S - 2 3' (890-8619-3)	8/12/25	11:02 Mountain	G	Solid			X	X	X	X	X	1	
S - 5 3' (890-8619-4)	8/12/25	11:11 Mountain	G	Solid			X	X	X	X	X	1	
S - 9 0.5' (890-8619-5)	8/12/25	11:20 Mountain	G	Solid			X	X	X	X	X	1	
S - 9 1' (890-8619-6)	8/12/25	11:22 Mountain	G	Solid			X	X	X	X	X	1	
S - 9 3' (890-8619-7)	8/12/25	11:23 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		8/12 1630			8	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/13/25 800	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.6/3.5 -1 IR8

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-8619-1
SDG Number: 25-0101-02

Login Number: 8619
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-8619-1
SDG Number: 25-0101-02

Login Number: 8619
List Number: 2
Creator: Rios, Minerva

List Source: Eurofins Midland
List Creation: 08/12/25 08:41 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	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	

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/23/2025 10:08:22 AM

JOB DESCRIPTION

Gravitas Spill 4
25-0101-02

JOB NUMBER

880-58278-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

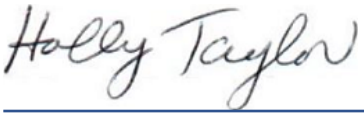
Eurofins Midland

Job Notes

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
5/23/2025 10:08:22 AM

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

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 4

Laboratory Job ID: 880-58278-1
SDG: 25-0101-02

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-58278-1
Project/Site: Gravitas Spill 4 SDG: 25-0101-02

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-58278-1
Project: Gravitas Spill 4

Job ID: 880-58278-1 Eurofins Midland

Job Narrative
880-58278-1

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 5/16/2025 5:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 0' (880-58278-1), S-2 0' (880-58278-2), S-3 0' (880-58278-3), S-3 0.5' (880-58278-4), S-4 0' (880-58278-5), S-4 0.5' (880-58278-6), S-5 0' (880-58278-7), S-5 0.5' (880-58278-8), S-6 0' (880-58278-9), S-7 0' (880-58278-10) and S-8 0' (880-58278-11).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110424 and analytical batch 880-110406 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.

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

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

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-58278-1
Project/Site: Gravitas Spill 4 SDG: 25-0101-02

Client Sample ID: S-1 0'
Lab Sample ID: 880-58278-1
Date Collected: 05/14/25 09:02 **Matrix: Solid**
Date Received: 05/16/25 17:07

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0385**		0.00200		mg/Kg		05/19/25 10:11	05/19/25 11:55	1
Toluene	**0.0803**	**F1**	0.00200		mg/Kg		05/19/25 10:11	05/19/25 11:55	1
Ethylbenzene	**0.00715**		0.00200		mg/Kg		05/19/25 10:11	05/19/25 11:55	1
m,p-Xylenes	**0.0500**	**F1**	0.00399		mg/Kg		05/19/25 10:11	05/19/25 11:55	1
o-Xylene	**0.0129**	**F1**	0.00200		mg/Kg		05/19/25 10:11	05/19/25 11:55	1
Xylenes, Total	**0.0629**	**F1**	0.00399		mg/Kg		05/19/25 10:11	05/19/25 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/19/25 10:11*	*05/19/25 11:55*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/19/25 10:11*	*05/19/25 11:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.189**		0.00399		mg/Kg			05/19/25 11:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**94.6**		49.9		mg/Kg			05/22/25 18:46	1

Method: 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		05/16/25 14:11	05/22/25 18:46	1
Diesel Range Organics (Over C10-C28)	**94.6**		49.9		mg/Kg		05/16/25 14:11	05/22/25 18:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/25 14:11	05/22/25 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*05/16/25 14:11*	*05/22/25 18:46*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*05/16/25 14:11*	*05/22/25 18:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21300**		495		mg/Kg			05/19/25 21:48	50

Client Sample ID: S-2 0'
Lab Sample ID: 880-58278-2
Date Collected: 05/14/25 09:13 **Matrix: Solid**
Date Received: 05/16/25 17:07

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		05/19/25 10:11	05/19/25 12:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/19/25 10:11	05/19/25 12:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/19/25 10:11	05/19/25 12:15	1
m,p-Xylenes	**0.00502**		0.00402		mg/Kg		05/19/25 10:11	05/19/25 12:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/19/25 10:11	05/19/25 12:15	1
Xylenes, Total	**0.00502**		0.00402		mg/Kg		05/19/25 10:11	05/19/25 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/19/25 10:11*	*05/19/25 12:15*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/19/25 10:11*	*05/19/25 12:15*	*1*

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-58278-1
Project/Site: Gravitas Spill 4 SDG: 25-0101-02

Client Sample ID: S-2 0'
Lab Sample ID: 880-58278-2
Date Collected: 05/14/25 09:13 **Matrix: Solid**
Date Received: 05/16/25 17:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00502**		0.00402		mg/Kg			05/19/25 12:15	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			05/22/25 19:18	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	<50.1	U	50.1		mg/Kg		05/16/25 14:11	05/22/25 19:18	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/16/25 14:11	05/22/25 19:18	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/16/25 14:11	05/22/25 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*05/16/25 14:11*	*05/22/25 19:18*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*05/16/25 14:11*	*05/22/25 19:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14200**		202		mg/Kg			05/19/25 22:08	20

Client Sample ID: S-3 0'
Lab Sample ID: 880-58278-3
Date Collected: 05/14/25 09:20 **Matrix: Solid**
Date Received: 05/16/25 17:07

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0237**		0.00199		mg/Kg		05/19/25 10:11	05/19/25 12:36	1
Toluene	**0.0297**		0.00199		mg/Kg		05/19/25 10:11	05/19/25 12:36	1
Ethylbenzene	**0.00253**		0.00199		mg/Kg		05/19/25 10:11	05/19/25 12:36	1
m,p-Xylenes	**0.0160**		0.00398		mg/Kg		05/19/25 10:11	05/19/25 12:36	1
o-Xylene	**0.00442**		0.00199		mg/Kg		05/19/25 10:11	05/19/25 12:36	1
Xylenes, Total	**0.0204**		0.00398		mg/Kg		05/19/25 10:11	05/19/25 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/19/25 10:11*	*05/19/25 12:36*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/19/25 10:11*	*05/19/25 12:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0764**		0.00398		mg/Kg			05/19/25 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**517**		49.7		mg/Kg			05/22/25 19:35	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	<49.7	U	49.7		mg/Kg		05/16/25 14:11	05/22/25 19:35	1
Diesel Range Organics (Over C10-C28)	**517**		49.7		mg/Kg		05/16/25 14:11	05/22/25 19:35	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-58278-1
Project/Site: Gravitas Spill 4 SDG: 25-0101-02

Client Sample ID: S-3 0' — Lab Sample ID: 880-58278-3

Date Collected: 05/14/25 09:20 **Matrix: Solid**
Date Received: 05/16/25 17:07

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		05/16/25 14:11	05/22/25 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*05/16/25 14:11*	*05/22/25 19:35*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*05/16/25 14:11*	*05/22/25 19:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24000**		496		mg/Kg			05/19/25 22:15	50

Client Sample ID: S-3 0.5' — Lab Sample ID: 880-58278-4

Date Collected: 05/14/25 09:32 **Matrix: Solid**
Date Received: 05/16/25 17:07

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0392**		0.00202		mg/Kg		05/19/25 10:11	05/19/25 12:56	1
Toluene	**0.0565**		0.00202		mg/Kg		05/19/25 10:11	05/19/25 12:56	1
Ethylbenzene	**0.00458**		0.00202		mg/Kg		05/19/25 10:11	05/19/25 12:56	1
m,p-Xylenes	**0.0284**		0.00404		mg/Kg		05/19/25 10:11	05/19/25 12:56	1
o-Xylene	**0.0124**		0.00202		mg/Kg		05/19/25 10:11	05/19/25 12:56	1
Xylenes, Total	**0.0408**		0.00404		mg/Kg		05/19/25 10:11	05/19/25 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*05/19/25 10:11*	*05/19/25 12:56*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*05/19/25 10:11*	*05/19/25 12:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.141**		0.00404		mg/Kg			05/19/25 12:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**476**		50.0		mg/Kg			05/22/25 19:51	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	<50.0	U	50.0		mg/Kg		05/16/25 14:11	05/22/25 19:51	1
Diesel Range Organics (Over C10-C28)	**476**		50.0		mg/Kg		05/16/25 14:11	05/22/25 19:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/25 14:11	05/22/25 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*05/16/25 14:11*	*05/22/25 19:51*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*05/16/25 14:11*	*05/22/25 19:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28200**		500		mg/Kg			05/19/25 22:22	50

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 4

Job ID: 880-58278-1
SDG: 25-0101-02

Client Sample ID: S-4 0'

Date Collected: 05/14/25 09:45
Date Received: 05/16/25 17:07

Lab Sample ID: 880-58278-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0384**		0.00201		mg/Kg		05/19/25 10:11	05/19/25 13:17	1
Toluene	**0.0937**		0.00201		mg/Kg		05/19/25 10:11	05/19/25 13:17	1
Ethylbenzene	**0.0124**		0.00201		mg/Kg		05/19/25 10:11	05/19/25 13:17	1
m,p-Xylenes	**0.0903**		0.00402		mg/Kg		05/19/25 10:11	05/19/25 13:17	1
o-Xylene	**0.0269**		0.00201		mg/Kg		05/19/25 10:11	05/19/25 13:17	1
Xylenes, Total	**0.117**		0.00402		mg/Kg		05/19/25 10:11	05/19/25 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*05/19/25 10:11*	*05/19/25 13:17*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*05/19/25 10:11*	*05/19/25 13:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.262**		0.00402		mg/Kg			05/19/25 13:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**305**		50.1		mg/Kg			05/22/25 20:23	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	<50.1	U	50.1		mg/Kg		05/16/25 14:11	05/22/25 20:23	1
Diesel Range Organics (Over C10-C28)	**305**		50.1		mg/Kg		05/16/25 14:11	05/22/25 20:23	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/16/25 14:11	05/22/25 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*05/16/25 14:11*	*05/22/25 20:23*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*05/16/25 14:11*	*05/22/25 20:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29000**		502		mg/Kg			05/19/25 22:29	50

Client Sample ID: S-4 0.5'

Date Collected: 05/14/25 09:57
Date Received: 05/16/25 17:07

Lab Sample ID: 880-58278-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00235**		0.00199		mg/Kg		05/19/25 10:11	05/19/25 13:37	1
Toluene	**0.0102**		0.00199		mg/Kg		05/19/25 10:11	05/19/25 13:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/19/25 10:11	05/19/25 13:37	1
m,p-Xylenes	**0.00853**		0.00398		mg/Kg		05/19/25 10:11	05/19/25 13:37	1
o-Xylene	**0.00482**		0.00199		mg/Kg		05/19/25 10:11	05/19/25 13:37	1
Xylenes, Total	**0.0134**		0.00398		mg/Kg		05/19/25 10:11	05/19/25 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*05/19/25 10:11*	*05/19/25 13:37*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/19/25 10:11*	*05/19/25 13:37*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-58278-1
Project/Site: Gravitas Spill 4 SDG: 25-0101-02

Client Sample ID: S-4 0.5'
Lab Sample ID: 880-58278-6
Date Collected: 05/14/25 09:57 **Matrix: Solid**
Date Received: 05/16/25 17:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0259**		0.00398		mg/Kg			05/19/25 13:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**458**		50.3		mg/Kg			05/22/25 20:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		05/16/25 14:11	05/22/25 20:38	1
Diesel Range Organics (Over C10-C28)	**458**		50.3		mg/Kg		05/16/25 14:11	05/22/25 20:38	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		05/16/25 14:11	05/22/25 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*05/16/25 14:11*	*05/22/25 20:38*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*05/16/25 14:11*	*05/22/25 20:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32800**		499		mg/Kg			05/19/25 22:36	50

Client Sample ID: S-5 0'
Lab Sample ID: 880-58278-7
Date Collected: 05/14/25 10:06 **Matrix: Solid**
Date Received: 05/16/25 17:07

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0689**		0.00198		mg/Kg		05/19/25 10:11	05/19/25 13:58	1
Toluene	**0.202**		0.00198		mg/Kg		05/19/25 10:11	05/19/25 13:58	1
Ethylbenzene	**0.0217**		0.00198		mg/Kg		05/19/25 10:11	05/19/25 13:58	1
m,p-Xylenes	**0.131**		0.00397		mg/Kg		05/19/25 10:11	05/19/25 13:58	1
o-Xylene	**0.0360**		0.00198		mg/Kg		05/19/25 10:11	05/19/25 13:58	1
Xylenes, Total	**0.167**		0.00397		mg/Kg		05/19/25 10:11	05/19/25 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/19/25 10:11*	*05/19/25 13:58*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*05/19/25 10:11*	*05/19/25 13:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.460**		0.00397		mg/Kg			05/19/25 13:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/22/25 20:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/16/25 14:11	05/22/25 20:54	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/16/25 14:11	05/22/25 20:54	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-58278-1
Project/Site: Gravitas Spill 4 SDG: 25-0101-02

Client Sample ID: S-5 0' — Lab Sample ID: 880-58278-7

Date Collected: 05/14/25 10:06 **Matrix: Solid**
Date Received: 05/16/25 17:07

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		05/16/25 14:11	05/22/25 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*05/16/25 14:11*	*05/22/25 20:54*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*05/16/25 14:11*	*05/22/25 20:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36200**		504		mg/Kg			05/19/25 22:43	50

Client Sample ID: S-5 0.5' — Lab Sample ID: 880-58278-8

Date Collected: 05/14/25 10:17 **Matrix: Solid**
Date Received: 05/16/25 17:07

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0245**		0.00200		mg/Kg		05/19/25 10:11	05/19/25 14:19	1
Toluene	**0.143**		0.00200		mg/Kg		05/19/25 10:11	05/19/25 14:19	1
Ethylbenzene	**0.0135**		0.00200		mg/Kg		05/19/25 10:11	05/19/25 14:19	1
m,p-Xylenes	**0.0900**		0.00400		mg/Kg		05/19/25 10:11	05/19/25 14:19	1
o-Xylene	**0.0292**		0.00200		mg/Kg		05/19/25 10:11	05/19/25 14:19	1
Xylenes, Total	**0.119**		0.00400		mg/Kg		05/19/25 10:11	05/19/25 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*05/19/25 10:11*	*05/19/25 14:19*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/19/25 10:11*	*05/19/25 14:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.300**		0.00400		mg/Kg			05/19/25 14:19	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 21:10	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		05/16/25 14:11	05/22/25 21:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/16/25 14:11	05/22/25 21:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/16/25 14:11	05/22/25 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*05/16/25 14:11*	*05/22/25 21:10*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*05/16/25 14:11*	*05/22/25 21:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22800**		502		mg/Kg			05/19/25 22:49	50

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-58278-1
Project/Site: Gravitas Spill 4 SDG: 25-0101-02

Client Sample ID: S-6 0'
Lab Sample ID: 880-58278-9
Date Collected: 05/14/25 08:22 **Matrix: Solid**
Date Received: 05/16/25 17:07

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		05/19/25 10:11	05/19/25 14:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:11	05/19/25 14:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:11	05/19/25 14:39	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		05/19/25 10:11	05/19/25 14:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:11	05/19/25 14:39	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/19/25 10:11	05/19/25 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/19/25 10:11*	*05/19/25 14:39*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*05/19/25 10:11*	*05/19/25 14:39*	*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			05/19/25 14:39	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			05/22/25 21:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/25 14:11	05/22/25 21:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/25 14:11	05/22/25 21:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/25 14:11	05/22/25 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*05/16/25 14:11*	*05/22/25 21:26*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*05/16/25 14:11*	*05/22/25 21:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71.1**		10.0		mg/Kg			05/19/25 15:48	1

Client Sample ID: S-7 0'
Lab Sample ID: 880-58278-10
Date Collected: 05/14/25 08:34 **Matrix: Solid**
Date Received: 05/16/25 17:07

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		05/19/25 10:11	05/19/25 15:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:11	05/19/25 15:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:11	05/19/25 15:00	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		05/19/25 10:11	05/19/25 15:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:11	05/19/25 15:00	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/19/25 10:11	05/19/25 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/19/25 10:11*	*05/19/25 15:00*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/19/25 10:11*	*05/19/25 15:00*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-58278-1
Project/Site: Gravitas Spill 4 SDG: 25-0101-02

Client Sample ID: S-7 0'
Lab Sample ID: 880-58278-10
Date Collected: 05/14/25 08:34 **Matrix: Solid**
Date Received: 05/16/25 17:07

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			05/19/25 15:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			05/22/25 21:42	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	<50.2	U	50.2		mg/Kg		05/16/25 14:11	05/22/25 21:42	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/16/25 14:11	05/22/25 21:42	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/16/25 14:11	05/22/25 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*05/16/25 14:11*	*05/22/25 21:42*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*05/16/25 14:11*	*05/22/25 21:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.5**		10.1		mg/Kg			05/19/25 16:08	1

Client Sample ID: S-8 0'
Lab Sample ID: 880-58278-11
Date Collected: 05/14/25 08:43 **Matrix: Solid**
Date Received: 05/16/25 17:07

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		05/19/25 10:11	05/19/25 17:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:11	05/19/25 17:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:11	05/19/25 17:08	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/19/25 10:11	05/19/25 17:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:11	05/19/25 17:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/19/25 10:11	05/19/25 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/19/25 10:11*	*05/19/25 17:08*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/19/25 10:11*	*05/19/25 17:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/19/25 17:08	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			05/22/25 21:59	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		05/16/25 14:11	05/22/25 21:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/25 14:11	05/22/25 21:59	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-58278-1
Project/Site: Gravitas Spill 4 SDG: 25-0101-02

Client Sample ID: S-8 0' **Lab Sample ID: 880-58278-11**
Date Collected: 05/14/25 08:43 **Matrix: Solid**
Date Received: 05/16/25 17:07

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		05/16/25 14:11	05/22/25 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*05/16/25 14:11*	*05/22/25 21:59*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*05/16/25 14:11*	*05/22/25 21:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.1**		10.0		mg/Kg			05/19/25 16:15	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 4

Job ID: 880-58278-1
SDG: 25-0101-02

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-58278-1	S-1 0'	89	95
880-58278-1 MS	S-1 0'	113	115
880-58278-1 MSD	S-1 0'	110	115
880-58278-2	S-2 0'	92	97
880-58278-3	S-3 0'	90	100
880-58278-4	S-3 0.5'	85	89
880-58278-5	S-4 0'	114	110
880-58278-6	S-4 0.5'	87	91
880-58278-7	S-5 0'	97	109
880-58278-8	S-5 0.5'	102	99
880-58278-9	S-6 0'	92	77
880-58278-10	S-7 0'	91	94
880-58278-11	S-8 0'	90	97
LCS 880-110424/1-A	Lab Control Sample	107	104
LCSD 880-110424/2-A	Lab Control Sample Dup	109	104
MB 880-110424/5-A	Method Blank	89	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-58278-1	S-1 0'	109	100
880-58278-2	S-2 0'	106	99
880-58278-3	S-3 0'	110	109
880-58278-4	S-3 0.5'	108	109
880-58278-5	S-4 0'	103	97
880-58278-6	S-4 0.5'	106	101
880-58278-7	S-5 0'	105	100
880-58278-8	S-5 0.5'	107	99
880-58278-9	S-6 0'	107	99
880-58278-10	S-7 0'	110	100
880-58278-11	S-8 0'	111	101
LCS 880-110350/2-A	Lab Control Sample	99	102
LCSD 880-110350/3-A	Lab Control Sample Dup	115	117
MB 880-110350/1-A	Method Blank	90	81

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 4

Job ID: 880-58278-1
SDG: 25-0101-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110424/5-A
Matrix: Solid
Analysis Batch: 110406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110424

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:11	05/19/25 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:11	05/19/25 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:11	05/19/25 11:33	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/19/25 10:11	05/19/25 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:11	05/19/25 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/19/25 10:11	05/19/25 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/19/25 10:11*	*05/19/25 11:33*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/19/25 10:11*	*05/19/25 11:33*	*1*

Lab Sample ID: LCS 880-110424/1-A
Matrix: Solid
Analysis Batch: 110406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110424

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08962		mg/Kg		90	70 - 130		
Toluene			0.100	0.08539		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.1023		mg/Kg		102	70 - 130		
m,p-Xylenes			0.200	0.1961		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.09498		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-110424/2-A
Matrix: Solid
Analysis Batch: 110406

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110424

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08987		mg/Kg		90	70 - 130	0	35
Toluene			0.100	0.08002		mg/Kg		80	70 - 130	6	35
Ethylbenzene			0.100	0.09017		mg/Kg		90	70 - 130	13	35
m,p-Xylenes			0.200	0.1706		mg/Kg		85	70 - 130	14	35
o-Xylene			0.100	0.08399		mg/Kg		84	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-58278-1 MS
Matrix: Solid
Analysis Batch: 110406

Client Sample ID: S-1 0'
Prep Type: Total/NA
Prep Batch: 110424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.0385		0.100	0.1095		mg/Kg		71	70 - 130		
Toluene	0.0803	F1	0.100	0.1214	F1	mg/Kg		41	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 4

Job ID: 880-58278-1
SDG: 25-0101-02

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

Lab Sample ID: 880-58278-1 MS
Matrix: Solid
Analysis Batch: 110406

Client Sample ID: S-1 0'
Prep Type: Total/NA
Prep Batch: 110424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.00715		0.100	0.09027		mg/Kg		83	70 - 130
m,p-Xylenes	0.0500	F1	0.200	0.1918		mg/Kg		71	70 - 130
o-Xylene	0.0129	F1	0.100	0.08589		mg/Kg		73	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 880-58278-1 MSD
Matrix: Solid
Analysis Batch: 110406

Client Sample ID: S-1 0'
Prep Type: Total/NA
Prep Batch: 110424

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0385		0.100	0.1238		mg/Kg		85	70 - 130	12	35
Toluene	0.0803	F1	0.100	0.1505		mg/Kg		70	70 - 130	21	35
Ethylbenzene	0.00715		0.100	0.08071		mg/Kg		74	70 - 130	11	35
m,p-Xylenes	0.0500	F1	0.200	0.1705	F1	mg/Kg		60	70 - 130	12	35
o-Xylene	0.0129	F1	0.100	0.07727	F1	mg/Kg		64	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

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

Lab Sample ID: MB 880-110350/1-A
Matrix: Solid
Analysis Batch: 110717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110350

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		05/16/25 14:10	05/22/25 14:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/25 14:10	05/22/25 14:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/25 14:10	05/22/25 14:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*05/16/25 14:10*	*05/22/25 14:57*	*1*
o-Terphenyl (Surr)	*81*		*70 - 130*	*05/16/25 14:10*	*05/22/25 14:57*	*1*

Lab Sample ID: LCS 880-110350/2-A
Matrix: Solid
Analysis Batch: 110717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110350

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1104		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1131		mg/Kg		113	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 4

Job ID: 880-58278-1
SDG: 25-0101-02

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

Lab Sample ID: LCS 880-110350/2-A
Matrix: Solid
Analysis Batch: 110717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110350

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-110350/3-A
Matrix: Solid
Analysis Batch: 110717

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110350

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1123		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1132		mg/Kg		113	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	115		70 - 130
o-Terphenyl (Surr)	117		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110427/1-A
Matrix: Solid
Analysis Batch: 110444

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			05/19/25 19:25	1

Lab Sample ID: LCS 880-110427/2-A
Matrix: Solid
Analysis Batch: 110444

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	266.2		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-110427/3-A
Matrix: Solid
Analysis Batch: 110444

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	269.4		mg/Kg		108	90 - 110	1	20

Lab Sample ID: MB 880-110434/1-A
Matrix: Solid
Analysis Batch: 110445

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			05/19/25 15:27	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 4

Job ID: 880-58278-1
SDG: 25-0101-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-110434/2-A
Matrix: Solid
Analysis Batch: 110445

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.9		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-110434/3-A
Matrix: Solid
Analysis Batch: 110445

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	264.3		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 880-58278-9 MS
Matrix: Solid
Analysis Batch: 110445

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	71.1		251	334.5		mg/Kg		105	90 - 110		

Lab Sample ID: 880-58278-9 MSD
Matrix: Solid
Analysis Batch: 110445

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	71.1		251	334.4		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 4

Job ID: 880-58278-1
SDG: 25-0101-02

GC VOA

Analysis Batch: 110406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58278-1	S-1 0'	Total/NA	Solid	8021B	110424
880-58278-2	S-2 0'	Total/NA	Solid	8021B	110424
880-58278-3	S-3 0'	Total/NA	Solid	8021B	110424
880-58278-4	S-3 0.5'	Total/NA	Solid	8021B	110424
880-58278-5	S-4 0'	Total/NA	Solid	8021B	110424
880-58278-6	S-4 0.5'	Total/NA	Solid	8021B	110424
880-58278-7	S-5 0'	Total/NA	Solid	8021B	110424
880-58278-8	S-5 0.5'	Total/NA	Solid	8021B	110424
880-58278-9	S-6 0'	Total/NA	Solid	8021B	110424
880-58278-10	S-7 0'	Total/NA	Solid	8021B	110424
880-58278-11	S-8 0'	Total/NA	Solid	8021B	110424
MB 880-110424/5-A	Method Blank	Total/NA	Solid	8021B	110424
LCS 880-110424/1-A	Lab Control Sample	Total/NA	Solid	8021B	110424
LCSD 880-110424/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110424
880-58278-1 MS	S-1 0'	Total/NA	Solid	8021B	110424
880-58278-1 MSD	S-1 0'	Total/NA	Solid	8021B	110424

Prep Batch: 110424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58278-1	S-1 0'	Total/NA	Solid	5035	
880-58278-2	S-2 0'	Total/NA	Solid	5035	
880-58278-3	S-3 0'	Total/NA	Solid	5035	
880-58278-4	S-3 0.5'	Total/NA	Solid	5035	
880-58278-5	S-4 0'	Total/NA	Solid	5035	
880-58278-6	S-4 0.5'	Total/NA	Solid	5035	
880-58278-7	S-5 0'	Total/NA	Solid	5035	
880-58278-8	S-5 0.5'	Total/NA	Solid	5035	
880-58278-9	S-6 0'	Total/NA	Solid	5035	
880-58278-10	S-7 0'	Total/NA	Solid	5035	
880-58278-11	S-8 0'	Total/NA	Solid	5035	
MB 880-110424/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110424/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110424/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58278-1 MS	S-1 0'	Total/NA	Solid	5035	
880-58278-1 MSD	S-1 0'	Total/NA	Solid	5035	

Analysis Batch: 110481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58278-1	S-1 0'	Total/NA	Solid	Total BTEX	
880-58278-2	S-2 0'	Total/NA	Solid	Total BTEX	
880-58278-3	S-3 0'	Total/NA	Solid	Total BTEX	
880-58278-4	S-3 0.5'	Total/NA	Solid	Total BTEX	
880-58278-5	S-4 0'	Total/NA	Solid	Total BTEX	
880-58278-6	S-4 0.5'	Total/NA	Solid	Total BTEX	
880-58278-7	S-5 0'	Total/NA	Solid	Total BTEX	
880-58278-8	S-5 0.5'	Total/NA	Solid	Total BTEX	
880-58278-9	S-6 0'	Total/NA	Solid	Total BTEX	
880-58278-10	S-7 0'	Total/NA	Solid	Total BTEX	
880-58278-11	S-8 0'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 4

Job ID: 880-58278-1
SDG: 25-0101-02

GC Semi VOA

Prep Batch: 110350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58278-1	S-1 0'	Total/NA	Solid	8015NM Prep	
880-58278-2	S-2 0'	Total/NA	Solid	8015NM Prep	
880-58278-3	S-3 0'	Total/NA	Solid	8015NM Prep	
880-58278-4	S-3 0.5'	Total/NA	Solid	8015NM Prep	
880-58278-5	S-4 0'	Total/NA	Solid	8015NM Prep	
880-58278-6	S-4 0.5'	Total/NA	Solid	8015NM Prep	
880-58278-7	S-5 0'	Total/NA	Solid	8015NM Prep	
880-58278-8	S-5 0.5'	Total/NA	Solid	8015NM Prep	
880-58278-9	S-6 0'	Total/NA	Solid	8015NM Prep	
880-58278-10	S-7 0'	Total/NA	Solid	8015NM Prep	
880-58278-11	S-8 0'	Total/NA	Solid	8015NM Prep	
MB 880-110350/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110350/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110350/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58278-1	S-1 0'	Total/NA	Solid	8015B NM	110350
880-58278-2	S-2 0'	Total/NA	Solid	8015B NM	110350
880-58278-3	S-3 0'	Total/NA	Solid	8015B NM	110350
880-58278-4	S-3 0.5'	Total/NA	Solid	8015B NM	110350
880-58278-5	S-4 0'	Total/NA	Solid	8015B NM	110350
880-58278-6	S-4 0.5'	Total/NA	Solid	8015B NM	110350
880-58278-7	S-5 0'	Total/NA	Solid	8015B NM	110350
880-58278-8	S-5 0.5'	Total/NA	Solid	8015B NM	110350
880-58278-9	S-6 0'	Total/NA	Solid	8015B NM	110350
880-58278-10	S-7 0'	Total/NA	Solid	8015B NM	110350
880-58278-11	S-8 0'	Total/NA	Solid	8015B NM	110350
MB 880-110350/1-A	Method Blank	Total/NA	Solid	8015B NM	110350
LCS 880-110350/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110350
LCSD 880-110350/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110350

Analysis Batch: 110812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58278-1	S-1 0'	Total/NA	Solid	8015 NM	
880-58278-2	S-2 0'	Total/NA	Solid	8015 NM	
880-58278-3	S-3 0'	Total/NA	Solid	8015 NM	
880-58278-4	S-3 0.5'	Total/NA	Solid	8015 NM	
880-58278-5	S-4 0'	Total/NA	Solid	8015 NM	
880-58278-6	S-4 0.5'	Total/NA	Solid	8015 NM	
880-58278-7	S-5 0'	Total/NA	Solid	8015 NM	
880-58278-8	S-5 0.5'	Total/NA	Solid	8015 NM	
880-58278-9	S-6 0'	Total/NA	Solid	8015 NM	
880-58278-10	S-7 0'	Total/NA	Solid	8015 NM	
880-58278-11	S-8 0'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58278-1	S-1 0'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 4

Job ID: 880-58278-1
SDG: 25-0101-02

HPLC/IC (Continued)

Leach Batch: 110427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58278-2	S-2 0'	Soluble	Solid	DI Leach	
880-58278-3	S-3 0'	Soluble	Solid	DI Leach	
880-58278-4	S-3 0.5'	Soluble	Solid	DI Leach	
880-58278-5	S-4 0'	Soluble	Solid	DI Leach	
880-58278-6	S-4 0.5'	Soluble	Solid	DI Leach	
880-58278-7	S-5 0'	Soluble	Solid	DI Leach	
880-58278-8	S-5 0.5'	Soluble	Solid	DI Leach	
MB 880-110427/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110427/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110427/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 110434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58278-9	S-6 0'	Soluble	Solid	DI Leach	
880-58278-10	S-7 0'	Soluble	Solid	DI Leach	
880-58278-11	S-8 0'	Soluble	Solid	DI Leach	
MB 880-110434/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110434/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110434/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58278-9 MS	S-6 0'	Soluble	Solid	DI Leach	
880-58278-9 MSD	S-6 0'	Soluble	Solid	DI Leach	

Analysis Batch: 110444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58278-1	S-1 0'	Soluble	Solid	300.0	110427
880-58278-2	S-2 0'	Soluble	Solid	300.0	110427
880-58278-3	S-3 0'	Soluble	Solid	300.0	110427
880-58278-4	S-3 0.5'	Soluble	Solid	300.0	110427
880-58278-5	S-4 0'	Soluble	Solid	300.0	110427
880-58278-6	S-4 0.5'	Soluble	Solid	300.0	110427
880-58278-7	S-5 0'	Soluble	Solid	300.0	110427
880-58278-8	S-5 0.5'	Soluble	Solid	300.0	110427
MB 880-110427/1-A	Method Blank	Soluble	Solid	300.0	110427
LCS 880-110427/2-A	Lab Control Sample	Soluble	Solid	300.0	110427
LCSD 880-110427/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110427

Analysis Batch: 110445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58278-9	S-6 0'	Soluble	Solid	300.0	110434
880-58278-10	S-7 0'	Soluble	Solid	300.0	110434
880-58278-11	S-8 0'	Soluble	Solid	300.0	110434
MB 880-110434/1-A	Method Blank	Soluble	Solid	300.0	110434
LCS 880-110434/2-A	Lab Control Sample	Soluble	Solid	300.0	110434
LCSD 880-110434/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110434
880-58278-9 MS	S-6 0'	Soluble	Solid	300.0	110434
880-58278-9 MSD	S-6 0'	Soluble	Solid	300.0	110434

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 4

Job ID: 880-58278-1
SDG: 25-0101-02

Client Sample ID: S-1 0'

Lab Sample ID: 880-58278-1
Matrix: Solid
Date Collected: 05/14/25 09:02
Date Received: 05/16/25 17:07

Prep 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	110424	05/19/25 10:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110406	05/19/25 11:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110481	05/19/25 11:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			110812	05/22/25 18:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 18:46	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		50			110444	05/19/25 21:48	CH	EET MID

Client Sample ID: S-2 0'

Lab Sample ID: 880-58278-2
Matrix: Solid
Date Collected: 05/14/25 09:13
Date Received: 05/16/25 17:07

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	110424	05/19/25 10:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110406	05/19/25 12:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110481	05/19/25 12:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			110812	05/22/25 19:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 19:18	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	110444	05/19/25 22:08	CH	EET MID

Client Sample ID: S-3 0'

Lab Sample ID: 880-58278-3
Matrix: Solid
Date Collected: 05/14/25 09:20
Date Received: 05/16/25 17:07

Prep 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	110424	05/19/25 10:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110406	05/19/25 12:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110481	05/19/25 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			110812	05/22/25 19:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 19:35	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	110444	05/19/25 22:15	CH	EET MID

Client Sample ID: S-3 0.5'

Lab Sample ID: 880-58278-4
Matrix: Solid
Date Collected: 05/14/25 09:32
Date Received: 05/16/25 17:07

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	110424	05/19/25 10:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110406	05/19/25 12:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110481	05/19/25 12:56	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-58278-1
Project/Site: Gravitas Spill 4 SDG: 25-0101-02

Client Sample ID: S-3 0.5' Lab Sample ID: 880-58278-4

Date Collected: 05/14/25 09:32 **Matrix: Solid**
Date Received: 05/16/25 17:07

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			110812	05/22/25 19:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 19:51	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	110444	05/19/25 22:22	CH	EET MID

Client Sample ID: S-4 0' Lab Sample ID: 880-58278-5

Date Collected: 05/14/25 09:45 **Matrix: Solid**
Date Received: 05/16/25 17:07

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	110424	05/19/25 10:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110406	05/19/25 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110481	05/19/25 13:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			110812	05/22/25 20:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 20:23	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	110444	05/19/25 22:29	CH	EET MID

Client Sample ID: S-4 0.5' Lab Sample ID: 880-58278-6

Date Collected: 05/14/25 09:57 **Matrix: Solid**
Date Received: 05/16/25 17:07

Prep 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	110424	05/19/25 10:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110406	05/19/25 13:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110481	05/19/25 13:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			110812	05/22/25 20:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 20:38	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	110444	05/19/25 22:36	CH	EET MID

Client Sample ID: S-5 0' Lab Sample ID: 880-58278-7

Date Collected: 05/14/25 10:06 **Matrix: Solid**
Date Received: 05/16/25 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110424	05/19/25 10:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110406	05/19/25 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110481	05/19/25 13:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			110812	05/22/25 20:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 20:54	TKC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 4

Job ID: 880-58278-1
SDG: 25-0101-02

Client Sample ID: S-5 0'

Lab Sample ID: 880-58278-7
Matrix: Solid
Date Collected: 05/14/25 10:06
Date Received: 05/16/25 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	110444	05/19/25 22:43	CH	EET MID

Client Sample ID: S-5 0.5'

Lab Sample ID: 880-58278-8
Matrix: Solid
Date Collected: 05/14/25 10:17
Date Received: 05/16/25 17:07

Prep 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	110424	05/19/25 10:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110406	05/19/25 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110481	05/19/25 14:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			110812	05/22/25 21:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 21:10	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	110444	05/19/25 22:49	CH	EET MID

Client Sample ID: S-6 0'

Lab Sample ID: 880-58278-9
Matrix: Solid
Date Collected: 05/14/25 08:22
Date Received: 05/16/25 17:07

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	110424	05/19/25 10:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110406	05/19/25 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110481	05/19/25 14:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			110812	05/22/25 21:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 21:26	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110434	05/19/25 11:07	SA	EET MID
Soluble	Analysis	300.0		1			110445	05/19/25 15:48	CH	EET MID

Client Sample ID: S-7 0'

Lab Sample ID: 880-58278-10
Matrix: Solid
Date Collected: 05/14/25 08:34
Date Received: 05/16/25 17:07

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	110424	05/19/25 10:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110406	05/19/25 15:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110481	05/19/25 15:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			110812	05/22/25 21:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 21:42	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110434	05/19/25 11:07	SA	EET MID
Soluble	Analysis	300.0		1			110445	05/19/25 16:08	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 4

Job ID: 880-58278-1
SDG: 25-0101-02

Client Sample ID: S-8 0'

Date Collected: 05/14/25 08:43
Date Received: 05/16/25 17:07

Lab Sample ID: 880-58278-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110424	05/19/25 10:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110406	05/19/25 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110481	05/19/25 17:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			110812	05/22/25 21:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 21:59	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110434	05/19/25 11:07	SA	EET MID
Soluble	Analysis	300.0		1			110445	05/19/25 16:15	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-58278-1
Project/Site: Gravitas Spill 4 SDG: 25-0101-02

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. Job ID: 880-58278-1
Project/Site: Gravitas Spill 4 SDG: 25-0101-02

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 Spill 4

Job ID: 880-58278-1
SDG: 25-0101-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-58278-1	S-1 0'	Solid	05/14/25 09:02	05/16/25 17:07
880-58278-2	S-2 0'	Solid	05/14/25 09:13	05/16/25 17:07
880-58278-3	S-3 0'	Solid	05/14/25 09:20	05/16/25 17:07
880-58278-4	S-3 0.5'	Solid	05/14/25 09:32	05/16/25 17:07
880-58278-5	S-4 0'	Solid	05/14/25 09:45	05/16/25 17:07
880-58278-6	S-4 0.5'	Solid	05/14/25 09:57	05/16/25 17:07
880-58278-7	S-5 0'	Solid	05/14/25 10:06	05/16/25 17:07
880-58278-8	S-5 0.5'	Solid	05/14/25 10:17	05/16/25 17:07
880-58278-9	S-6 0'	Solid	05/14/25 08:22	05/16/25 17:07
880-58278-10	S-7 0'	Solid	05/14/25 08:34	05/16/25 17:07
880-58278-11	S-8 0'	Solid	05/14/25 08:43	05/16/25 17:07

58278 No. 3267

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 5/16/25 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: GRAVITAS SPILL 4

LAI PROJECT #: 25-0101-02 COLLECTOR: IR

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT / NM

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐ | FIELD NOTES

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	ANALYSES
S-1 0'		5/14/25	9:02	S	1				X		X X X X X
S-2 0'			9:13								
S-3 0'			9:20								
S-3 0.5'			9:32								
S-4 0'			9:45								
S-4 0.5'			9:57								
S-5 0'			10:06								
S-5 0.5'			10:17								
S-6 0'			8:22								
S-7 0'			8:34								
S-8 0'			8:43								

TOTAL 11

880-58278 Chain of Custody

RELINQUISHED BY:(Signature) DATE/TIME 5.16.25 1707 RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: EUROFINS

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

LABORATORY USE ONLY:
RECEIVING TEMP: 1.3/1.2 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-58278-1
SDG Number: 25-0101-02

Login Number: 58278
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/25/2025 12:33:08 PM

JOB DESCRIPTION

Gravitas Spill #4
25-0101-02

JOB NUMBER

880-61727-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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

Generated
8/25/2025 12:33:08 PM

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

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill #4

Laboratory Job ID: 880-61727-1
SDG: 25-0101-02

Table of Contents

Eurofins Midland
8/25/2025

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-61727-1
Project/Site: Gravitas Spill #4 SDG: 25-0101-02

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-61727-1
Project: Gravitas Spill #4

Job ID: 880-61727-1 Eurofins Midland

Job Narrative
880-61727-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/20/2025 11:03 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

Client Sample ID: S-1 0.5'

Date Collected: 08/19/25 10:10
Date Received: 08/20/25 11:03

Lab Sample ID: 880-61727-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/20/25 14:49	08/23/25 01:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/20/25 14:49	08/23/25 01:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/20/25 14:49	08/23/25 01:22	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/20/25 14:49	08/23/25 01:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/20/25 14:49	08/23/25 01:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/20/25 14:49	08/23/25 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/20/25 14:49*	*08/23/25 01:22*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/20/25 14:49*	*08/23/25 01:22*	*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			08/23/25 01:22	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			08/21/25 18:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U	49.8		mg/Kg		08/20/25 08:20	08/21/25 18:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/20/25 08:20	08/21/25 18:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/20/25 08:20	08/21/25 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*08/20/25 08:20*	*08/21/25 18:49*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*08/20/25 08:20*	*08/21/25 18:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**737**		10.0		mg/Kg			08/21/25 21:01	1

Client Sample ID: S-1 1'

Date Collected: 08/19/25 10:11
Date Received: 08/20/25 11:03

Lab Sample ID: 880-61727-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/20/25 14:49	08/23/25 01:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/20/25 14:49	08/23/25 01:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/20/25 14:49	08/23/25 01:43	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		08/20/25 14:49	08/23/25 01:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/20/25 14:49	08/23/25 01:43	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/20/25 14:49	08/23/25 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/20/25 14:49*	*08/23/25 01:43*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*08/20/25 14:49*	*08/23/25 01:43*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-61727-1
Project/Site: Gravitas Spill #4 SDG: 25-0101-02

Client Sample ID: S-1 1'
Lab Sample ID: 880-61727-2
Date Collected: 08/19/25 10:11 **Matrix: Solid**
Date Received: 08/20/25 11:03

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			08/23/25 01:43	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			08/21/25 19:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.7	U	49.7		mg/Kg		08/20/25 08:20	08/21/25 19:06	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/20/25 08:20	08/21/25 19:06	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/20/25 08:20	08/21/25 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*08/20/25 08:20*	*08/21/25 19:06*	*1*
o-Terphenyl (Surr)	*78*		*70 - 130*	*08/20/25 08:20*	*08/21/25 19:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**184**		10.1		mg/Kg			08/21/25 21:06	1

Client Sample ID: S-1 3'
Lab Sample ID: 880-61727-3
Date Collected: 08/19/25 10:12 **Matrix: Solid**
Date Received: 08/20/25 11:03

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		08/20/25 14:49	08/23/25 02:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/20/25 14:49	08/23/25 02:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/20/25 14:49	08/23/25 02:03	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/20/25 14:49	08/23/25 02:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/20/25 14:49	08/23/25 02:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/20/25 14:49	08/23/25 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/20/25 14:49*	*08/23/25 02:03*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*08/20/25 14:49*	*08/23/25 02:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/23/25 02:03	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			08/21/25 19:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		08/20/25 08:20	08/21/25 19:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/20/25 08:20	08/21/25 19:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/20/25 08:20	08/21/25 19:22	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-61727-1
Project/Site: Gravitas Spill #4 SDG: 25-0101-02

Client Sample ID: S-1 3'
Lab Sample ID: 880-61727-3
Date Collected: 08/19/25 10:12 **Matrix: Solid**
Date Received: 08/20/25 11:03

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	*97*		*70 - 130*	*08/20/25 08:20*	*08/21/25 19:22*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*08/20/25 08:20*	*08/21/25 19:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		9.96	mg/Kg			08/21/25 21:12	1

Client Sample ID: S-3 1'
Lab Sample ID: 880-61727-4
Date Collected: 08/19/25 10:50 **Matrix: Solid**
Date Received: 08/20/25 11:03

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		08/20/25 14:49	08/23/25 02:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/25 14:49	08/23/25 02:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/25 14:49	08/23/25 02:24	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		08/20/25 14:49	08/23/25 02:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/25 14:49	08/23/25 02:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/20/25 14:49	08/23/25 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/20/25 14:49*	*08/23/25 02:24*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/20/25 14:49*	*08/23/25 02:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/23/25 02:24	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			08/21/25 19:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U	49.8	mg/Kg		08/20/25 08:20	08/21/25 19:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/20/25 08:20	08/21/25 19:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/20/25 08:20	08/21/25 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	*98*		*70 - 130*	*08/20/25 08:20*	*08/21/25 19:55*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*08/20/25 08:20*	*08/21/25 19:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**526**		10.0	mg/Kg			08/21/25 21:18	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

Client Sample ID: S-3 3'

Date Collected: 08/19/25 10:51
Date Received: 08/20/25 11:03

Lab Sample ID: 880-61727-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/20/25 14:49	08/23/25 02:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/20/25 14:49	08/23/25 02:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/20/25 14:49	08/23/25 02:44	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/20/25 14:49	08/23/25 02:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/20/25 14:49	08/23/25 02:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/20/25 14:49	08/23/25 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/20/25 14:49*	*08/23/25 02:44*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*08/20/25 14:49*	*08/23/25 02:44*	*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			08/23/25 02:44	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			08/21/25 20:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U	49.8		mg/Kg		08/20/25 08:20	08/21/25 20:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/20/25 08:20	08/21/25 20:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/20/25 08:20	08/21/25 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*08/20/25 08:20*	*08/21/25 20:11*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*08/20/25 08:20*	*08/21/25 20:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.5**		9.98		mg/Kg			08/21/25 21:23	1

Client Sample ID: S-4 1'

Date Collected: 08/19/25 11:19
Date Received: 08/20/25 11:03

Lab Sample ID: 880-61727-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/20/25 14:49	08/23/25 03:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/20/25 14:49	08/23/25 03:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/20/25 14:49	08/23/25 03:05	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		08/20/25 14:49	08/23/25 03:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/20/25 14:49	08/23/25 03:05	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/20/25 14:49	08/23/25 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/20/25 14:49*	*08/23/25 03:05*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*08/20/25 14:49*	*08/23/25 03:05*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-61727-1
Project/Site: Gravitas Spill #4 SDG: 25-0101-02

Client Sample ID: S-4 1'
Lab Sample ID: 880-61727-6
Date Collected: 08/19/25 11:19 **Matrix: Solid**
Date Received: 08/20/25 11:03

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			08/23/25 03:05	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			08/21/25 20:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		08/20/25 08:20	08/21/25 20:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/20/25 08:20	08/21/25 20:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/20/25 08:20	08/21/25 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*08/20/25 08:20*	*08/21/25 20:56*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*08/20/25 08:20*	*08/21/25 20:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**306**		10.0		mg/Kg			08/21/25 21:29	1

Client Sample ID: S-4 3'
Lab Sample ID: 880-61727-7
Date Collected: 08/19/25 11:20 **Matrix: Solid**
Date Received: 08/20/25 11:03

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		08/20/25 14:49	08/23/25 03:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/20/25 14:49	08/23/25 03:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/20/25 14:49	08/23/25 03:25	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/20/25 14:49	08/23/25 03:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/20/25 14:49	08/23/25 03:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/20/25 14:49	08/23/25 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/20/25 14:49*	*08/23/25 03:25*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/20/25 14:49*	*08/23/25 03:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/23/25 03:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/21/25 21:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U	49.9		mg/Kg		08/20/25 08:20	08/21/25 21:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/20/25 08:20	08/21/25 21:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/20/25 08:20	08/21/25 21:11	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

Client Sample ID: S-4 3'
Date Collected: 08/19/25 11:20
Date Received: 08/20/25 11:03

Lab Sample ID: 880-61727-7
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	08/20/25 08:20	08/21/25 21:11	1
o-Terphenyl (Surr)	87		70 - 130	08/20/25 08:20	08/21/25 21:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	177		10.1		mg/Kg			08/21/25 21:35	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-61727-1	S-1 0.5'	97	113
880-61727-2	S-1 1'	102	120
880-61727-3	S-1 3'	101	117
880-61727-4	S-3 1'	99	112
880-61727-5	S-3 3'	102	118
880-61727-6	S-4 1'	101	116
880-61727-7	S-4 3'	97	111
LCS 880-117169/1-A	Lab Control Sample	110	106
LCSD 880-117169/2-A	Lab Control Sample Dup	106	103
MB 880-117169/5-A	Method Blank	87	109

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-61727-1	S-1 0.5'	86	79
880-61727-2	S-1 1'	84	78
880-61727-3	S-1 3'	97	86
880-61727-4	S-3 1'	98	86
880-61727-5	S-3 3'	99	86
880-61727-6	S-4 1'	100	85
880-61727-7	S-4 3'	101	87
LCS 880-117093/2-A	Lab Control Sample	96	91
LCSD 880-117093/3-A	Lab Control Sample Dup	117	94
MB 880-117093/1-A	Method Blank	81	76

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-117169/5-A
Matrix: Solid
Analysis Batch: 117406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117169

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/20/25 14:49	08/22/25 19:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/20/25 14:49	08/22/25 19:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/20/25 14:49	08/22/25 19:41	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/20/25 14:49	08/22/25 19:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/20/25 14:49	08/22/25 19:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/20/25 14:49	08/22/25 19:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*08/20/25 14:49*	*08/22/25 19:41*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/20/25 14:49*	*08/22/25 19:41*	*1*

Lab Sample ID: LCS 880-117169/1-A
Matrix: Solid
Analysis Batch: 117406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117169

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1061		mg/Kg		106	70 - 130		
Toluene			0.100	0.1065		mg/Kg		107	70 - 130		
Ethylbenzene			0.100	0.1008		mg/Kg		101	70 - 130		
m,p-Xylenes			0.200	0.2050		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.1045		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-117169/2-A
Matrix: Solid
Analysis Batch: 117406

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117169

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1033		mg/Kg		103	70 - 130	3	35
Toluene			0.100	0.1069		mg/Kg		107	70 - 130	0	35
Ethylbenzene			0.100	0.1003		mg/Kg		100	70 - 130	0	35
m,p-Xylenes			0.200	0.2051		mg/Kg		103	70 - 130	0	35
o-Xylene			0.100	0.1039		mg/Kg		104	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

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

Lab Sample ID: MB 880-117093/1-A
Matrix: Solid
Analysis Batch: 117312

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117093

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		08/20/25 08:09	08/21/25 12:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/20/25 08:09	08/21/25 12:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/20/25 08:09	08/21/25 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*08/20/25 08:09*	*08/21/25 12:14*	*1*
o-Terphenyl (Surr)	*76*		*70 - 130*	*08/20/25 08:09*	*08/21/25 12:14*	*1*

Lab Sample ID: LCS 880-117093/2-A
Matrix: Solid
Analysis Batch: 117312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117093

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)			1000	1132		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1017		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*96*		*70 - 130*
o-Terphenyl (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 880-117093/3-A
Matrix: Solid
Analysis Batch: 117312

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117093

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)			1000	1093		mg/Kg		109	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	986.8		mg/Kg		99	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*117*		*70 - 130*
o-Terphenyl (Surr)	*94*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-117207/1-A
Matrix: Solid
Analysis Batch: 117258

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			08/21/25 18:45	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-117207/2-A
Matrix: Solid
Analysis Batch: 117258

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.0		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-117207/3-A
Matrix: Solid
Analysis Batch: 117258

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	241.9		mg/Kg		97	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

GC VOA

Prep Batch: 117169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61727-1	S-1 0.5'	Total/NA	Solid	5035	
880-61727-2	S-1 1'	Total/NA	Solid	5035	
880-61727-3	S-1 3'	Total/NA	Solid	5035	
880-61727-4	S-3 1'	Total/NA	Solid	5035	
880-61727-5	S-3 3'	Total/NA	Solid	5035	
880-61727-6	S-4 1'	Total/NA	Solid	5035	
880-61727-7	S-4 3'	Total/NA	Solid	5035	
MB 880-117169/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-117169/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-117169/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 117406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61727-1	S-1 0.5'	Total/NA	Solid	8021B	117169
880-61727-2	S-1 1'	Total/NA	Solid	8021B	117169
880-61727-3	S-1 3'	Total/NA	Solid	8021B	117169
880-61727-4	S-3 1'	Total/NA	Solid	8021B	117169
880-61727-5	S-3 3'	Total/NA	Solid	8021B	117169
880-61727-6	S-4 1'	Total/NA	Solid	8021B	117169
880-61727-7	S-4 3'	Total/NA	Solid	8021B	117169
MB 880-117169/5-A	Method Blank	Total/NA	Solid	8021B	117169
LCS 880-117169/1-A	Lab Control Sample	Total/NA	Solid	8021B	117169
LCSD 880-117169/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	117169

Analysis Batch: 117483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61727-1	S-1 0.5'	Total/NA	Solid	Total BTEX	
880-61727-2	S-1 1'	Total/NA	Solid	Total BTEX	
880-61727-3	S-1 3'	Total/NA	Solid	Total BTEX	
880-61727-4	S-3 1'	Total/NA	Solid	Total BTEX	
880-61727-5	S-3 3'	Total/NA	Solid	Total BTEX	
880-61727-6	S-4 1'	Total/NA	Solid	Total BTEX	
880-61727-7	S-4 3'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 117093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61727-1	S-1 0.5'	Total/NA	Solid	8015NM Prep	
880-61727-2	S-1 1'	Total/NA	Solid	8015NM Prep	
880-61727-3	S-1 3'	Total/NA	Solid	8015NM Prep	
880-61727-4	S-3 1'	Total/NA	Solid	8015NM Prep	
880-61727-5	S-3 3'	Total/NA	Solid	8015NM Prep	
880-61727-6	S-4 1'	Total/NA	Solid	8015NM Prep	
880-61727-7	S-4 3'	Total/NA	Solid	8015NM Prep	
MB 880-117093/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-117093/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-117093/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

GC Semi VOA

Analysis Batch: 117312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61727-1	S-1 0.5'	Total/NA	Solid	8015B NM	117093
880-61727-2	S-1 1'	Total/NA	Solid	8015B NM	117093
880-61727-3	S-1 3'	Total/NA	Solid	8015B NM	117093
880-61727-4	S-3 1'	Total/NA	Solid	8015B NM	117093
880-61727-5	S-3 3'	Total/NA	Solid	8015B NM	117093
880-61727-6	S-4 1'	Total/NA	Solid	8015B NM	117093
880-61727-7	S-4 3'	Total/NA	Solid	8015B NM	117093
MB 880-117093/1-A	Method Blank	Total/NA	Solid	8015B NM	117093
LCS 880-117093/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	117093
LCSD 880-117093/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	117093

Analysis Batch: 117387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61727-1	S-1 0.5'	Total/NA	Solid	8015 NM	
880-61727-2	S-1 1'	Total/NA	Solid	8015 NM	
880-61727-3	S-1 3'	Total/NA	Solid	8015 NM	
880-61727-4	S-3 1'	Total/NA	Solid	8015 NM	
880-61727-5	S-3 3'	Total/NA	Solid	8015 NM	
880-61727-6	S-4 1'	Total/NA	Solid	8015 NM	
880-61727-7	S-4 3'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 117207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61727-1	S-1 0.5'	Soluble	Solid	DI Leach	
880-61727-2	S-1 1'	Soluble	Solid	DI Leach	
880-61727-3	S-1 3'	Soluble	Solid	DI Leach	
880-61727-4	S-3 1'	Soluble	Solid	DI Leach	
880-61727-5	S-3 3'	Soluble	Solid	DI Leach	
880-61727-6	S-4 1'	Soluble	Solid	DI Leach	
880-61727-7	S-4 3'	Soluble	Solid	DI Leach	
MB 880-117207/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-117207/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-117207/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 117258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61727-1	S-1 0.5'	Soluble	Solid	300.0	117207
880-61727-2	S-1 1'	Soluble	Solid	300.0	117207
880-61727-3	S-1 3'	Soluble	Solid	300.0	117207
880-61727-4	S-3 1'	Soluble	Solid	300.0	117207
880-61727-5	S-3 3'	Soluble	Solid	300.0	117207
880-61727-6	S-4 1'	Soluble	Solid	300.0	117207
880-61727-7	S-4 3'	Soluble	Solid	300.0	117207
MB 880-117207/1-A	Method Blank	Soluble	Solid	300.0	117207
LCS 880-117207/2-A	Lab Control Sample	Soluble	Solid	300.0	117207
LCSD 880-117207/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	117207

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

Client Sample ID: S-1 0.5'

Lab Sample ID: 880-61727-1
Matrix: Solid
Date Collected: 08/19/25 10:10
Date Received: 08/20/25 11:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	117169	08/20/25 14:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117406	08/23/25 01:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117483	08/23/25 01:22	SA	EET MID
Total/NA	Analysis	8015 NM		1			117387	08/21/25 18:49	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	117093	08/20/25 08:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117312	08/21/25 18:49	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	117207	08/21/25 09:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117258	08/21/25 21:01	CS	EET MID

Client Sample ID: S-1 1'

Lab Sample ID: 880-61727-2
Matrix: Solid
Date Collected: 08/19/25 10:11
Date Received: 08/20/25 11:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	117169	08/20/25 14:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117406	08/23/25 01:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117483	08/23/25 01:43	SA	EET MID
Total/NA	Analysis	8015 NM		1			117387	08/21/25 19:06	SA	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	117093	08/20/25 08:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117312	08/21/25 19:06	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	117207	08/21/25 09:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117258	08/21/25 21:06	CS	EET MID

Client Sample ID: S-1 3'

Lab Sample ID: 880-61727-3
Matrix: Solid
Date Collected: 08/19/25 10:12
Date Received: 08/20/25 11:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	117169	08/20/25 14:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117406	08/23/25 02:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117483	08/23/25 02:03	SA	EET MID
Total/NA	Analysis	8015 NM		1			117387	08/21/25 19:22	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	117093	08/20/25 08:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117312	08/21/25 19:22	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	117207	08/21/25 09:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117258	08/21/25 21:12	CS	EET MID

Client Sample ID: S-3 1'

Lab Sample ID: 880-61727-4
Matrix: Solid
Date Collected: 08/19/25 10:50
Date Received: 08/20/25 11:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	117169	08/20/25 14:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117406	08/23/25 02:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117483	08/23/25 02:24	SA	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

Client Sample ID: S-3 1'

Lab Sample ID: 880-61727-4
Matrix: Solid
Date Collected: 08/19/25 10:50
Date Received: 08/20/25 11:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			117387	08/21/25 19:55	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	117093	08/20/25 08:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117312	08/21/25 19:55	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	117207	08/21/25 09:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117258	08/21/25 21:18	CS	EET MID

Client Sample ID: S-3 3'

Lab Sample ID: 880-61727-5
Matrix: Solid
Date Collected: 08/19/25 10:51
Date Received: 08/20/25 11:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	117169	08/20/25 14:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117406	08/23/25 02:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117483	08/23/25 02:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			117387	08/21/25 20:11	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	117093	08/20/25 08:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117312	08/21/25 20:11	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	117207	08/21/25 09:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117258	08/21/25 21:23	CS	EET MID

Client Sample ID: S-4 1'

Lab Sample ID: 880-61727-6
Matrix: Solid
Date Collected: 08/19/25 11:19
Date Received: 08/20/25 11:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	117169	08/20/25 14:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117406	08/23/25 03:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117483	08/23/25 03:05	SA	EET MID
Total/NA	Analysis	8015 NM		1			117387	08/21/25 20:56	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	117093	08/20/25 08:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117312	08/21/25 20:56	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	117207	08/21/25 09:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117258	08/21/25 21:29	CS	EET MID

Client Sample ID: S-4 3'

Lab Sample ID: 880-61727-7
Matrix: Solid
Date Collected: 08/19/25 11:20
Date Received: 08/20/25 11:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	117169	08/20/25 14:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117406	08/23/25 03:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117483	08/23/25 03:25	SA	EET MID
Total/NA	Analysis	8015 NM		1			117387	08/21/25 21:11	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	117093	08/20/25 08:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117312	08/21/25 21:11	TKC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

Client Sample ID: S-4 3'

Date Collected: 08/19/25 11:20
Date Received: 08/20/25 11:03

Lab Sample ID: 880-61727-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	117207	08/21/25 09:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117258	08/21/25 21:35	CS	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 Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

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	06-30-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-61727-1
Project/Site: Gravitas Spill #4 SDG: 25-0101-02

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 Spill #4

Job ID: 880-61727-1
SDG: 25-0101-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
880-61727-1	S-1 0.5'	Solid	08/19/25 10:10	08/20/25 11:03	New Mexico
880-61727-2	S-1 1'	Solid	08/19/25 10:11	08/20/25 11:03	New Mexico
880-61727-3	S-1 3'	Solid	08/19/25 10:12	08/20/25 11:03	New Mexico
880-61727-4	S-3 1'	Solid	08/19/25 10:50	08/20/25 11:03	New Mexico
880-61727-5	S-3 3'	Solid	08/19/25 10:51	08/20/25 11:03	New Mexico
880-61727-6	S-4 1'	Solid	08/19/25 11:19	08/20/25 11:03	New Mexico
880-61727-7	S-4 3'	Solid	08/19/25 11:20	08/20/25 11:03	New Mexico

No. 3509

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to: ~~DANIEL~~ St. GERMAIN / MARK LARSON

DATE: 08/20/2025 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: 61727

PROJECT LOCATION OR NAME: GRAVITAS SPILL #4

LAI PROJECT #: 25-0101-02 COLLECTOR: JR + DS

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MDT / NM

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ | TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ | HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ | TCLP VOC ☐ | TCLP - PEST ☐ | HERB ☐ | Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ | OTHER LIST ☐ | LEAD - TOTAL ☐ | D.W. 200.8 ☐ | TCLP ☐ | RCI ☐ | TOX ☐ | FLASHPOINT ☐ | TDS ☐ | TSS ☐ | % MOISTURE ☐ | CYANIDE ☐ | pH ☐ | HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ | PECHLORATE ☐ | CHLORIDE ☒ | ANIONS ☐ | ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	FIELD NOTES
S-1 0.5'		8/19/25	10:10 AM	S	1				X		
S-1 1'			10:11 AM								
S-1 3'			10:12 AM								
S-3 1'			10:50 AM								
S-3 3'			10:51 AM								
S-4 1'			11:19								
S-4 3'			11:20 AM								

TOTAL 7

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	8/20/25 1103	[signature]
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: EUROFINS

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

LABORATORY USE ONLY:
RECEIVING TEMP: 4.4/4.3 THERM#: IR4
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

880-61727 Chain of Custody

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-61727-1
SDG Number: 25-0101-02

Login Number: 61727
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

Appendix F

Photographic Documentation

Area of spill, viewing north.

Area of spill, viewing north.

Spill near berm, viewing north.

Spill area, viewing northwest.

Spill area, viewing southwest.

Spill area, viewing west.

Spill area, viewing southwest.

Area of spill, viewing south.

Spill area, viewing southeast.

Produced water spill, viewing east.

Spill area, viewing northeast.

Spill area, viewing east.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 503102
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2514142619**
Incident Name	**NAPP2514142619 HAYHURST NM SECTION 2 SWD (GRAVITAS) @ FAPP2131342213**
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 (Gravitas)
Date Release Discovered	05/12/2025
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 | Valve | Produced Water | Released: 12 BBL | Recovered: 0 BBL | Lost: 12 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.*

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 503102
	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: Kennedy Lincoln Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 09/04/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 503102
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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)	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	
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	Yes
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.	
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)	36200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	517
GRO+DRO (EPA SW-846 Method 8015M)	517
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
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.	
On what estimated date will the remediation commence	01/05/2026
On what date will (or did) the final sampling or liner inspection occur	01/19/2026
On what date will (or was) the remediation complete(d)	01/19/2026
What is the estimated surface area (in square feet) that will be reclaimed	3387
What is the estimated volume (in cubic yards) that will be reclaimed	294
What is the estimated surface area (in square feet) that will be remediated	3387
What is the estimated volume (in cubic yards) that will be remediated	294
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.	
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.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 503102
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
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.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(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	*Not answered.*
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	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360 Red Bluff
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.*
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 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: 09/04/2025
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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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 503102
	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 (continued)

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 503102
	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

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 503102
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Due to the sensitive nature of the release location and the site being located within high karst, the site will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall/edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Please collect confirmation samples, representing no more than 200 ft2. The work will need to be completed in 90 days after the report has been reviewed.	9/8/2025