

**Incident ID: nAPP2500852292**  
**Delineation Report and Remediation Plan**  
**Chamaeleon BIN State Com Battery – Spill 3**  
**Crude Oil Release**  
**Eddy County, New Mexico**

Latitude: 32.019736  
Longitude: -104.14068

LAI Project No. 25-0101-01

January 31, 2025

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

Prepared by:  
Larson & Associates, Inc.  
507 North Marienfeld Street, Suite 201  
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\_\_\_\_\_  
Mark Larson  
Certified Professional Geologist #10490

*Daniel St. Germain*  
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Daniel St. Germain  
Staff Geologist

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Chamaeleon BIN State Com Battery – Spill 3  
Crude Oil Release  
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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 Chamaeleon BIN State Com Battery (Site) located in Unit B, Section 25, Township 26 South, Range 27 East in Eddy County, New Mexico. The geodetic position is North 32.019736°, and West -104.14068°. Figure 1 presents a topographic map.

### 1.1 Background

The release was discovered on December 29, 2024, and was caused by fluid overflow from the flare, resulting in a small fire. About 0.014 barrels (bbls) of crude oil was released onto the pad and covered an area of approximately 91 square feet; none of the released fluid was recovered. The incident occurred on land owned by the State of New Mexico land, managed by New Mexico State Land Office (NMSLO). The initial C-141 and spill calculation were submitted to the NMOCD District II on January 9, 2025, and was assigned incident number nAPP2500852292.

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 3,109 feet above mean sea level (msl).
- Surface topography slopes gently to the north.
- The nearest continuously flowing water course (Pecos River) is located about 7.05 miles to the northeast.
- The nearest lakebed, sinkhole, or playa lake is located about 3.0 miles to the northeast.
- The nearest wetland is located about 0.52 miles to the northwest.
- The nearest subsurface mine is located about 27.5 miles to the northeast.
- The nearest 100-year flood plain is located 0.4 miles to the north.
- The nearest active water well for stock watering is located about 2.0 miles to the west.
- USGS karst occurrence potential data designates the area as “high” risk.
- The soils are designated as Gypsum Land – Cottonwood Complex, with Gypsum Land consisting primarily of gypsum, and Cottonwood complex consisting of 8 inches of loam and underlain by bedrock.
- The Salado Formation (upper Permian) is the uppermost geologic unit and is an evaporite sequence composed predominantly of halite.
- Groundwater was reported at 50 feet below ground surface (bgs), based on a groundwater well drilled on September 12, 2002, about 2.0 miles northwest of the Site (C-02930).

Appendix B presents a karst potential map. Appendix C presents the well record and log for C-02930.



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### 1.3 Remediation Standards

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

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

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

## 2.0 DELINEATION

January 13, 2025, LAI personnel used a stainless-steel hand auger to collect 12 samples from six locations (S-1 through S-6), at 0 (surface level) and 0.5 feet bgs. Two location (S-5 and S-6) were located inside of the spill area, and four samples (S-1 through S-4) were collected outside of the spill area, in each cardinal direction. 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 about the delineation limit of 100 mg/Kg in the lower most sample from S-5 (501 mg/Kg). Chloride was reported above the delineation limit of 600 mg/kg in the lowermost sample collected from S-6 (1,240 mg/Kg).

The release was not fully delineated due to hard subsurface conditions (anhydrite/gypsum) and proximity to production equipment that prevented access with mechanical drilling equipment. The spill will be fully delineated during remediation. Table 1 presents the delineation soil sample analytical data. Figure 3 presents the soil sample location map. Appendix F presents the laboratory analytical reports.

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### 3.0 REMEDIATION PLAN

Chevron proposes the following remedial actions:

- Use hydro and/or mechanical excavation methods to remove approximately 25 cubic yards of soil from an area of about 200 square feet to a depth between one (1) and three (3) feet bgs or greater, depending on analytical results of confirmation soil samples.
- Collect delineation samples from locations S-5 and S-6 after excavation is complete and analyze for BTEX, TPH, and chloride.
- Collect two (2) composite confirmation samples from the bottom and sidewall of the excavation, or approximately every 200 square feet, and analyze for BTEX, TPH, and chloride.
- Collect one (1) composite backfill sample from backfill material, and analyze for BTEX, TPH, and chloride.
- 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 Soil Sample Analytical Data Summary**  
**Chamaeleon BIN State Com Battery - Spill 3**  
**Eddy County, New Mexico**  
**32.01973,-104.14068**

Sample ID	Depth Feet	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
<b>Delineation Limits:</b>				<b>10</b>	<b>50</b>				<b>100</b>	<b>600</b>
<b>S-1</b>	0	01/13/2025	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<b>229</b>
<b>S-1</b>	0.5	01/13/2025	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<b>233</b>
<b>S-2</b>	0	01/13/2025	In-situ	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<b>34.7</b>
<b>S-2</b>	0.5	01/13/2025	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<b>33.5</b>
<b>S-3</b>	0	01/13/2025	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<b>401</b>
<b>S-3</b>	0.5	01/13/2025	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<b>417</b>
<b>S-4</b>	0	01/13/2025	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<b>142</b>
<b>S-4</b>	0.5	01/13/2025	In-situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<b>177</b>
<b>S-5</b>	0	01/13/2025	In-situ	<0.00201	0.155	<49.9	<b>2,020</b>	<49.9	<b>2020</b>	<b>1,390</b>
<b>S-5</b>	0.5	01/13/2025	In-situ	<0.00202	0	<49.8	<b>501</b>	<49.8	<b>501</b>	<b>383</b>
<b>S-6</b>	0	01/13/2025	In-situ	<0.00199	0.0164	<49.8	<b>70.2</b>	<49.8	<b>70.2</b>	<b>2,840</b>
<b>S-6</b>	0.5	01/13/2025	In-situ	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<b>1,240</b>

**Notes:**

Analysis performed by Eurofins Laboratories (Eurofins), in Midland, Texas, by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and EPA Method 300 (chloride).

BTEX: benzene, toluene, ethylbenzene, xylene

TPH: total petroleum hydrocarbons

GRO: gasoline range organics (C6-C10)

DRO: diesel range organics (>C10-C28)

MRO: oil range organics (>C28-C36)

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

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

Depth reported in feet below ground surface (bgs)

**Bold and highlighted indicates parameter concentration is above NMOCD delineation criteria**

## **Figures**

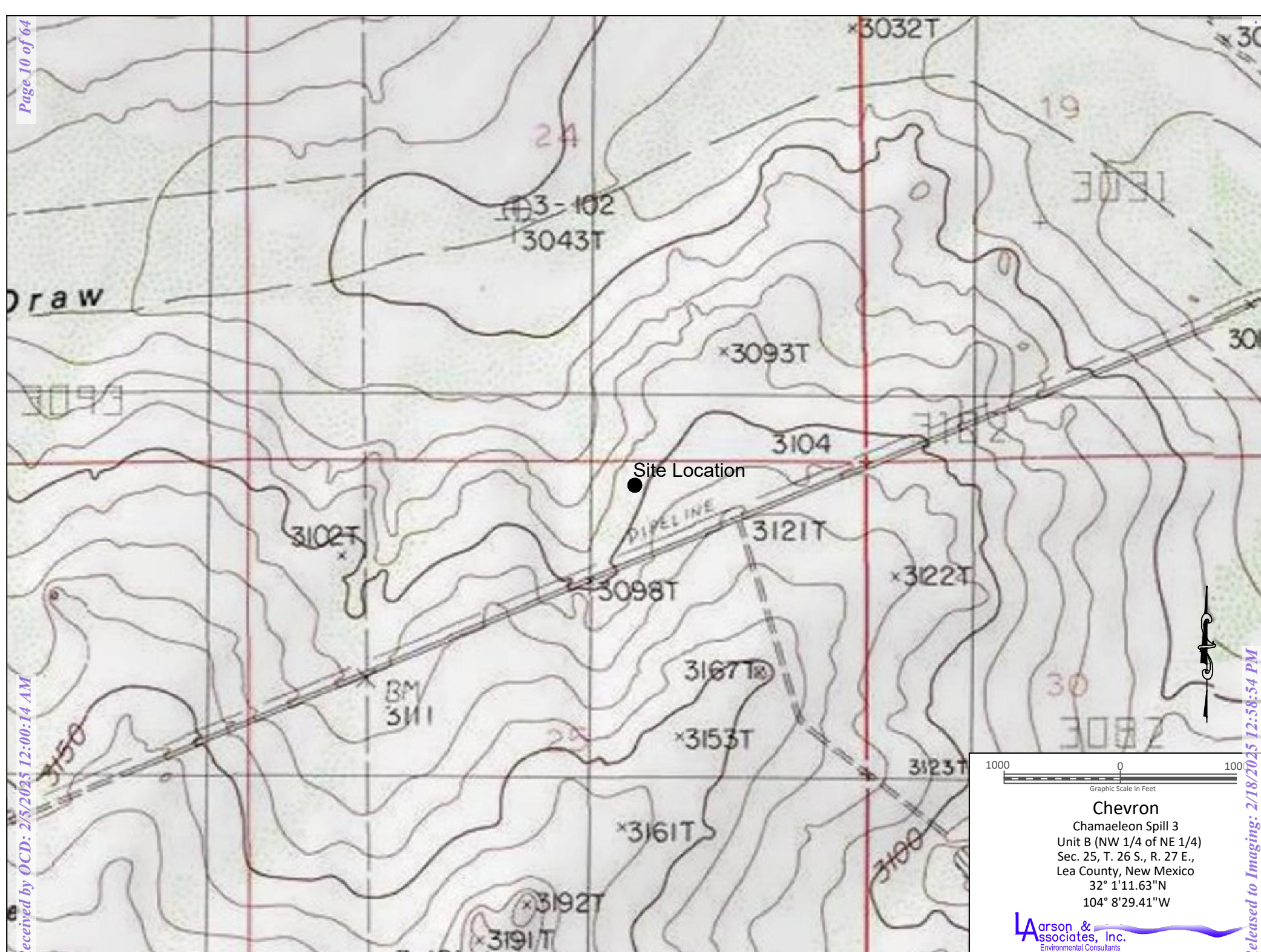


Figure 1 - Topographic Map





**Legend**

- Spill Area
- Soil Sample Location

Figure 2 - Aerial Map



Figure 3 - Aerial Map Showing Proposed Excavation Area



## **Appendix A**

### **Initial C-141 and Spill Calculation**

Spilled Material:

Oil Released: 0.014 bbl

Oil Recovered: bbl

Water Released: bbl

Water Recovered: bbl

Calculation Details									
Area	Shape	Secondary Containment	Standing Liquid Dimension	Standing Liquid Volume	Water Cut	Oil Volume	Penetration Depth	Water to Soil Volume	Water Volume
1	Circle	Caliche	4 ft x 0	0.014 bbl	0%	0.014 bbl	.500 in	0.014 bbl	
2				bbl	%	bbl		bbl	
3				bbl	%	bbl		bbl	
4				bbl	%	bbl		bbl	
5				bbl	%	bbl		bbl	
6				bbl	%	bbl		bbl	
7				bbl	%	bbl		bbl	
Rec Vol									
Total Vol						0.014			

Weather

Conditions: Cloudy

Temperature: 32°F

Relative Humidity: 82%

Wind Direction: 10°

Wind Speed: 1 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

Action 418731

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 418731
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500852292
Incident Name	NAPP2500852292 CHAMAELEON BIN STATE COM BATTERY @ 0
Incident Type	Fire
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2131330137] Chamaeleon BIN State Com Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Chamaeleon BIN State Com Battery
Date Release Discovered	12/29/2024
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
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	Cause: Equipment Failure   Other (Specify)   Crude Oil   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	Fluid overflowed and exited out of the flare.

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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 418731

**QUESTIONS (continued)**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 418731
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
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: 01/08/2025
--	--

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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, Page 3

Action 418731

**QUESTIONS (continued)**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 418731
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (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 ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	No
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Santa Fe, NM 87505

CONDITIONS

Action 418731

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 418731
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

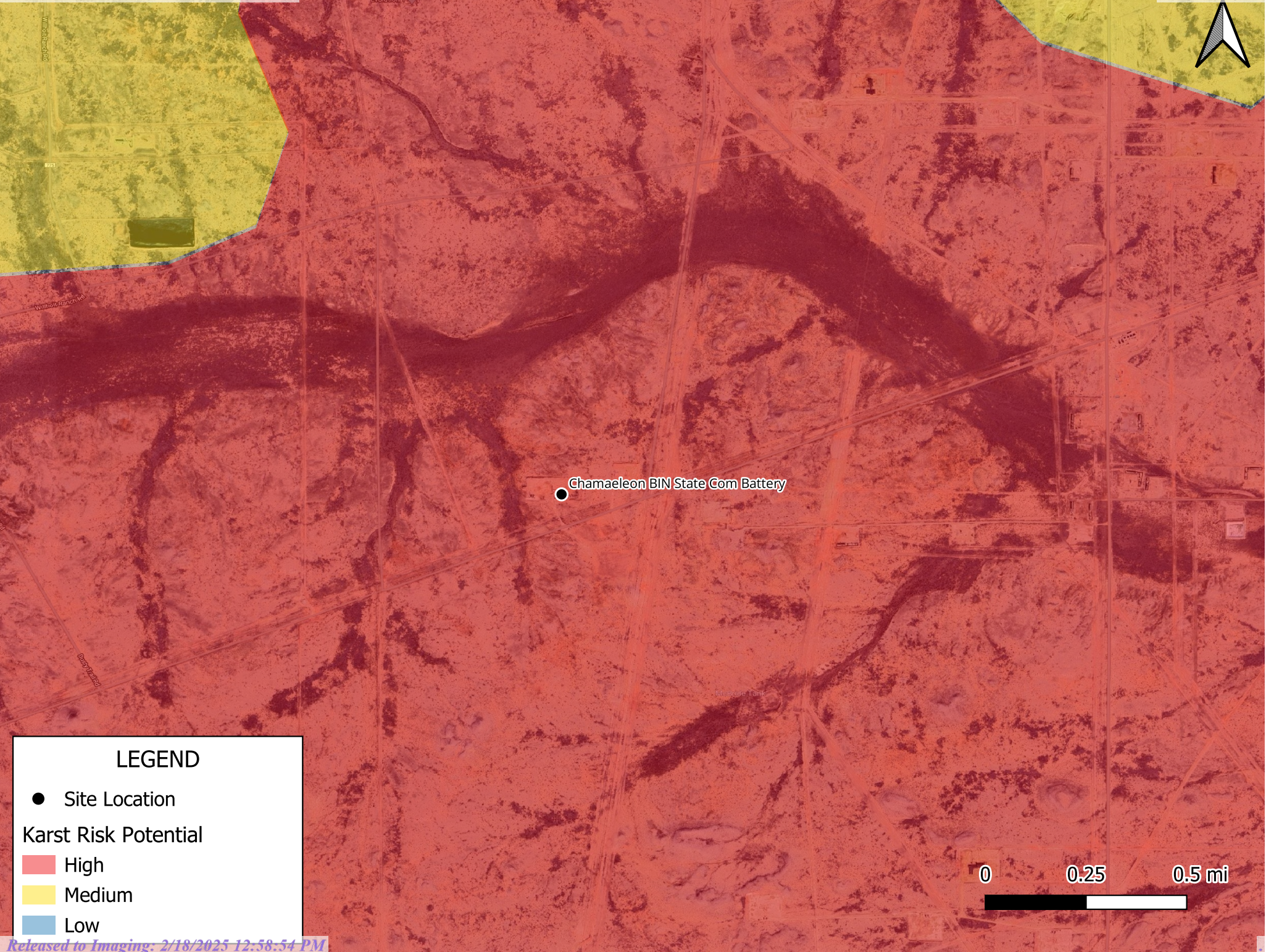
CONDITIONS

Created By	Condition	Condition Date
nvez	None	1/13/2025

## **Appendix B**

### **Karst Risk Potential**







## **Appendix C**

### **Well Record and Logs**

STATE ENGINEER OFFICE

WELL RECORD

Revised June 1972

472362

Section 1. GENERAL INFORMATION

(A) Owner of well Phil Stell Owner's Well No. C-2930

Street or Post Office Address 1305 January

City and State Carlsbad, NM 88220

Well was drilled under Permit No. \_\_\_\_\_ and is located in the:

a. NE  $\frac{1}{4}$  S.W  $\frac{1}{4}$  SE  $\frac{1}{4}$  of Section 22 Township 26 S Range 27 E N.M.P.M.

b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_

c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_\_

Subdivision, recorded in \_\_\_\_\_ County.

d. X= \_\_\_\_\_ feet, Y= \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_\_ Zone in the \_\_\_\_\_ Grant.

(B) Drilling Contractor B.H. Drilling License No. 1227

Address P.O. Box 72

Drilling Began 9-6-02 Completed 12-9-02 Type tools Cable Size of hole 8" in.

Elevation of land surface or \_\_\_\_\_ at well is \_\_\_\_\_ ft. Total depth of well 100' ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 50' ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
50'	62'	12'	Lime, Sand, Gravel	
80'	100'	20'	Lime	12 G.P.M.

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6"			100'	100'		N/A	50'	100'

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor \_\_\_\_\_

Address \_\_\_\_\_

Plugging Method \_\_\_\_\_

Date Well Plugged \_\_\_\_\_

Plugging approved by: \_\_\_\_\_

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received Dec. 19, 2002

Quad \_\_\_\_\_ FWL \_\_\_\_\_ FSL \_\_\_\_\_

File No. C-2930 Use Dom/Stk Location No. 26S.27.22.432

[illegible]

Kurt Behn  
Driller

Released to Imaging: 2/18/2025 12:58:54 PM

## **Appendix D**

### **Laboratory Report**



Environment Testing

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 1/17/2025 10:53:43 AM

## JOB DESCRIPTION

Chamaeleon  
25-0101-01

## JOB NUMBER

880-53142-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

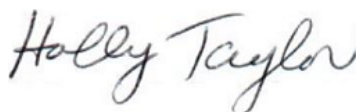
# Eurofins Midland

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

## Authorization



Generated  
1/17/2025 10:53:43 AM

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

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

Laboratory Job ID: 880-53142-1  
SDG: 25-0101-01

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Definitions/Glossary

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

Job ID: 880-53142-1  
SDG: 25-0101-01

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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



## Case Narrative

Client: Larson & Associates, Inc.  
Project: Chamaeleon

Job ID: 880-53142-1

**Job ID: 880-53142-1**

**Eurofins Midland**

### Job Narrative 880-53142-1

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 1/14/2025 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 0 (880-53142-1), S-1 0.5 (880-53142-2), S-2 0 (880-53142-3), S-2 0.5 (880-53142-4), S-3 0 (880-53142-5), S-3 0.5 (880-53142-6), S-4 0 (880-53142-7), S-4 0.5 (880-53142-8), S-5 0 (880-53142-9), S-5 0.5 (880-53142-10), S-6 0 (880-53142-11) and S-6 0.5 (880-53142-12).

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-5 0 (880-53142-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-100396 and analytical batch 880-100394 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 matrix spike duplicate (MSD) recoveries for preparation batch 880-100234 and analytical batch 880-100195 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD\_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: S-1 0.5 (880-53142-2), S-2 0 (880-53142-3), S-2 0.5 (880-53142-4), S-3 0 (880-53142-5), S-3 0.5 (880-53142-6), S-4 0.5 (880-53142-8) and S-6 0.5 (880-53142-12). Percent recoveries are based on the amount spiked.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (880-53142-A-2-B MS) and (880-53142-A-2-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: S-5 0 (880-53142-9). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-100233 and analytical batch 880-100200 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 880-100419 and analytical batch 880-100434 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.

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Case Narrative

Client: Larson & Associates, Inc.  
Project: Chamaeleon

Job ID: 880-53142-1

Job ID: 880-53142-1 (Continued)

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

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## Client Sample Results

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

Job ID: 880-53142-1  
SDG: 25-0101-01

Client Sample ID: S-1 0

Lab Sample ID: 880-53142-1

Date Collected: 01/13/25 11:37

Matrix: Solid

Date Received: 01/14/25 09:20

## 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		01/16/25 08:49	01/16/25 11:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/16/25 08:49	01/16/25 11:46	1
Ethylbenzene	<0.00200	U *	0.00200	mg/Kg		01/16/25 08:49	01/16/25 11:46	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		01/16/25 08:49	01/16/25 11:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/16/25 08:49	01/16/25 11:46	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/16/25 08:49	01/16/25 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/16/25 08:49	01/16/25 11:46	1
1,4-Difluorobenzene (Surr)	89		70 - 130	01/16/25 08:49	01/16/25 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/14/25 22:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/14/25 10:23	01/14/25 22:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/14/25 10:23	01/14/25 22:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/14/25 10:23	01/14/25 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	01/14/25 10:23	01/14/25 22:59	1
o-Terphenyl (Surr)	101		70 - 130	01/14/25 10:23	01/14/25 22:59	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	229	F1	10.1	mg/Kg			01/16/25 16:23	1

Client Sample ID: S-1 0.5

Lab Sample ID: 880-53142-2

Date Collected: 01/13/25 11:42

Matrix: Solid

Date Received: 01/14/25 09:20

## 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		01/16/25 08:49	01/16/25 12:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/16/25 08:49	01/16/25 12:07	1
Ethylbenzene	<0.00201	U *	0.00201	mg/Kg		01/16/25 08:49	01/16/25 12:07	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		01/16/25 08:49	01/16/25 12:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/16/25 08:49	01/16/25 12:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/16/25 08:49	01/16/25 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/16/25 08:49	01/16/25 12:07	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/16/25 08:49	01/16/25 12:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/15/25 00:31	1

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## Client Sample Results

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

Job ID: 880-53142-1  
SDG: 25-0101-01

Client Sample ID: S-1 0.5

Lab Sample ID: 880-53142-2

Date Collected: 01/13/25 11:42

Matrix: Solid

Date Received: 01/14/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0	mg/Kg		01/14/25 10:26	01/15/25 00:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/14/25 10:26	01/15/25 00:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/14/25 10:26	01/15/25 00:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	69	S1-	70 - 130			01/14/25 10:26	01/15/25 00:31	1
o-Terphenyl (Surr)	63	S1-	70 - 130			01/14/25 10:26	01/15/25 00:31	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		10.0	mg/Kg			01/16/25 16:41	1

Client Sample ID: S-2 0

Lab Sample ID: 880-53142-3

Date Collected: 01/13/25 11:45

Matrix: Solid

Date Received: 01/14/25 09:20

## 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		01/16/25 08:49	01/16/25 12:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/16/25 08:49	01/16/25 12:27	1
Ethylbenzene	<0.00200	U **	0.00200	mg/Kg		01/16/25 08:49	01/16/25 12:27	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		01/16/25 08:49	01/16/25 12:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/16/25 08:49	01/16/25 12:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/16/25 08:49	01/16/25 12:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			01/16/25 08:49	01/16/25 12:27	1
1,4-Difluorobenzene (Surr)	91		70 - 130			01/16/25 08:49	01/16/25 12:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/15/25 01:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		01/14/25 10:26	01/15/25 01:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/14/25 10:26	01/15/25 01:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/14/25 10:26	01/15/25 01:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	66	S1-	70 - 130			01/14/25 10:26	01/15/25 01:16	1
o-Terphenyl (Surr)	64	S1-	70 - 130			01/14/25 10:26	01/15/25 01:16	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.7		9.90	mg/Kg			01/16/25 16:47	1

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## Client Sample Results

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

Job ID: 880-53142-1  
SDG: 25-0101-01

Client Sample ID: S-2 0.5

Lab Sample ID: 880-53142-4

Date Collected: 01/13/25 11:47

Matrix: Solid

Date Received: 01/14/25 09:20

## 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		01/16/25 08:49	01/16/25 12:48	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/16/25 08:49	01/16/25 12:48	1
Ethylbenzene	<0.00201	U *	0.00201	mg/Kg		01/16/25 08:49	01/16/25 12:48	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		01/16/25 08:49	01/16/25 12:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/16/25 08:49	01/16/25 12:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/16/25 08:49	01/16/25 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/16/25 08:49	01/16/25 12:48	1
1,4-Difluorobenzene (Surr)	89		70 - 130	01/16/25 08:49	01/16/25 12:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/15/25 01:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/14/25 10:26	01/15/25 01:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/14/25 10:26	01/15/25 01:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/14/25 10:26	01/15/25 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	63	S1-	70 - 130	01/14/25 10:26	01/15/25 01:30	1
o-Terphenyl (Surr)	60	S1-	70 - 130	01/14/25 10:26	01/15/25 01:30	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.5		10.0	mg/Kg			01/16/25 16:53	1

Client Sample ID: S-3 0

Lab Sample ID: 880-53142-5

Date Collected: 01/13/25 11:50

Matrix: Solid

Date Received: 01/14/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/16/25 08:49	01/16/25 13:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/16/25 08:49	01/16/25 13:08	1
Ethylbenzene	<0.00199	U *	0.00199	mg/Kg		01/16/25 08:49	01/16/25 13:08	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		01/16/25 08:49	01/16/25 13:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/16/25 08:49	01/16/25 13:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/16/25 08:49	01/16/25 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/16/25 08:49	01/16/25 13:08	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/16/25 08:49	01/16/25 13:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/15/25 01:45	1

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## Client Sample Results

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

Job ID: 880-53142-1  
SDG: 25-0101-01

Client Sample ID: S-3 0

Lab Sample ID: 880-53142-5

Date Collected: 01/13/25 11:50

Matrix: Solid

Date Received: 01/14/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/14/25 10:26	01/15/25 01:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/14/25 10:26	01/15/25 01:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/14/25 10:26	01/15/25 01:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	65	S1-	70 - 130			01/14/25 10:26	01/15/25 01:45	1
o-Terphenyl (Surr)	63	S1-	70 - 130			01/14/25 10:26	01/15/25 01:45	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	401		9.98	mg/Kg			01/16/25 16:59	1

Client Sample ID: S-3 0.5

Lab Sample ID: 880-53142-6

Date Collected: 01/13/25 11:52

Matrix: Solid

Date Received: 01/14/25 09:20

## 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		01/16/25 08:49	01/16/25 13:29	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/16/25 08:49	01/16/25 13:29	1
Ethylbenzene	<0.00201	U **	0.00201	mg/Kg		01/16/25 08:49	01/16/25 13:29	1
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		01/16/25 08:49	01/16/25 13:29	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/16/25 08:49	01/16/25 13:29	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/16/25 08:49	01/16/25 13:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			01/16/25 08:49	01/16/25 13:29	1
1,4-Difluorobenzene (Surr)	86		70 - 130			01/16/25 08:49	01/16/25 13:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/15/25 02:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/14/25 10:26	01/15/25 02:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/14/25 10:26	01/15/25 02:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/14/25 10:26	01/15/25 02:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	58	S1-	70 - 130			01/14/25 10:26	01/15/25 02:00	1
o-Terphenyl (Surr)	57	S1-	70 - 130			01/14/25 10:26	01/15/25 02:00	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	417		9.94	mg/Kg			01/16/25 17:16	1

Eurofins Midland

## Client Sample Results

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

Job ID: 880-53142-1  
SDG: 25-0101-01

Client Sample ID: S-4 0

Lab Sample ID: 880-53142-7

Date Collected: 01/13/25 11:54

Matrix: Solid

Date Received: 01/14/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/16/25 08:49	01/16/25 13:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/16/25 08:49	01/16/25 13:49	1
Ethylbenzene	<0.00199	U *	0.00199	mg/Kg		01/16/25 08:49	01/16/25 13:49	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		01/16/25 08:49	01/16/25 13:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/16/25 08:49	01/16/25 13:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/16/25 08:49	01/16/25 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/16/25 08:49	01/16/25 13:49	1
1,4-Difluorobenzene (Surr)	92		70 - 130	01/16/25 08:49	01/16/25 13:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/15/25 02:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/14/25 10:26	01/15/25 02:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/14/25 10:26	01/15/25 02:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/14/25 10:26	01/15/25 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130	01/14/25 10:26	01/15/25 02:14	1
o-Terphenyl (Surr)	71		70 - 130	01/14/25 10:26	01/15/25 02:14	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		10.1	mg/Kg			01/16/25 17:22	1

Client Sample ID: S-4 0.5

Lab Sample ID: 880-53142-8

Date Collected: 01/13/25 11:56

Matrix: Solid

Date Received: 01/14/25 09:20

## 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		01/16/25 08:49	01/16/25 14:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/16/25 08:49	01/16/25 14:10	1
Ethylbenzene	<0.00200	U *	0.00200	mg/Kg		01/16/25 08:49	01/16/25 14:10	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/16/25 08:49	01/16/25 14:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/16/25 08:49	01/16/25 14:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/16/25 08:49	01/16/25 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/16/25 08:49	01/16/25 14:10	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/16/25 08:49	01/16/25 14:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/15/25 02:29	1

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## Client Sample Results

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

Job ID: 880-53142-1  
SDG: 25-0101-01

Client Sample ID: S-4 0.5

Lab Sample ID: 880-53142-8

Date Collected: 01/13/25 11:56

Matrix: Solid

Date Received: 01/14/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/14/25 10:26	01/15/25 02:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/14/25 10:26	01/15/25 02:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/14/25 10:26	01/15/25 02:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	66	S1-	70 - 130			01/14/25 10:26	01/15/25 02:29	1
o-Terphenyl (Surr)	63	S1-	70 - 130			01/14/25 10:26	01/15/25 02:29	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			01/16/25 17:28	1

Client Sample ID: S-5 0

Lab Sample ID: 880-53142-9

Date Collected: 01/13/25 11:59

Matrix: Solid

Date Received: 01/14/25 09:20

## 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		01/16/25 08:49	01/16/25 14:30	1
Toluene	0.0119		0.00201	mg/Kg		01/16/25 08:49	01/16/25 14:30	1
Ethylbenzene	0.0171	*+	0.00201	mg/Kg		01/16/25 08:49	01/16/25 14:30	1
m,p-Xylenes	0.0898		0.00402	mg/Kg		01/16/25 08:49	01/16/25 14:30	1
o-Xylene	0.0358		0.00201	mg/Kg		01/16/25 08:49	01/16/25 14:30	1
Xylenes, Total	0.126		0.00402	mg/Kg		01/16/25 08:49	01/16/25 14:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			01/16/25 08:49	01/16/25 14:30	1
1,4-Difluorobenzene (Surr)	99		70 - 130			01/16/25 08:49	01/16/25 14:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2020		49.9	mg/Kg			01/15/25 02:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/14/25 10:26	01/15/25 02:43	1
Diesel Range Organics (Over C10-C28)	2020		49.9	mg/Kg		01/14/25 10:26	01/15/25 02:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/14/25 10:26	01/15/25 02:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	69	S1-	70 - 130			01/14/25 10:26	01/15/25 02:43	1
o-Terphenyl (Surr)	119		70 - 130			01/14/25 10:26	01/15/25 02:43	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390		49.8	mg/Kg			01/16/25 17:34	5

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## Client Sample Results

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

Job ID: 880-53142-1  
SDG: 25-0101-01

Client Sample ID: S-5 0.5

Lab Sample ID: 880-53142-10

Date Collected: 01/13/25 12:02

Matrix: Solid

Date Received: 01/14/25 09:20

## 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		01/16/25 08:49	01/16/25 16:14	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/16/25 08:49	01/16/25 16:14	1
Ethylbenzene	0.00815	*+	0.00202	mg/Kg		01/16/25 08:49	01/16/25 16:14	1
m,p-Xylenes	0.0413		0.00404	mg/Kg		01/16/25 08:49	01/16/25 16:14	1
o-Xylene	0.0180		0.00202	mg/Kg		01/16/25 08:49	01/16/25 16:14	1
Xylenes, Total	0.0593		0.00404	mg/Kg		01/16/25 08:49	01/16/25 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	01/16/25 08:49	01/16/25 16:14	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/16/25 08:49	01/16/25 16:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	501		49.8	mg/Kg			01/15/25 02:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/14/25 10:26	01/15/25 02:58	1
Diesel Range Organics (Over C10-C28)	501		49.8	mg/Kg		01/14/25 10:26	01/15/25 02:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/14/25 10:26	01/15/25 02:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	70		70 - 130	01/14/25 10:26	01/15/25 02:58	1
o-Terphenyl (Surr)	81		70 - 130	01/14/25 10:26	01/15/25 02:58	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	383		10.0	mg/Kg			01/16/25 17:40	1

Client Sample ID: S-6 0

Lab Sample ID: 880-53142-11

Date Collected: 01/13/25 12:07

Matrix: Solid

Date Received: 01/14/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/16/25 08:49	01/16/25 16:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/16/25 08:49	01/16/25 16:35	1
Ethylbenzene	<0.00199	U *	0.00199	mg/Kg		01/16/25 08:49	01/16/25 16:35	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		01/16/25 08:49	01/16/25 16:35	1
o-Xylene	0.0164		0.00199	mg/Kg		01/16/25 08:49	01/16/25 16:35	1
Xylenes, Total	0.0164		0.00398	mg/Kg		01/16/25 08:49	01/16/25 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/16/25 08:49	01/16/25 16:35	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/16/25 08:49	01/16/25 16:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.2		49.8	mg/Kg			01/15/25 03:12	1

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## Client Sample Results

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

Job ID: 880-53142-1  
SDG: 25-0101-01

Client Sample ID: S-6 0

Lab Sample ID: 880-53142-11

Date Collected: 01/13/25 12:07

Matrix: Solid

Date Received: 01/14/25 09:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/14/25 10:26	01/15/25 03:12	1
Diesel Range Organics (Over C10-C28)	70.2		49.8	mg/Kg		01/14/25 10:26	01/15/25 03:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/14/25 10:26	01/15/25 03:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130			01/14/25 10:26	01/15/25 03:12	1
o-Terphenyl (Surr)	71		70 - 130			01/14/25 10:26	01/15/25 03:12	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2840	F1	199	mg/Kg			01/16/25 17:46	20

Client Sample ID: S-6 0.5

Lab Sample ID: 880-53142-12

Date Collected: 01/13/25 12:09

Matrix: Solid

Date Received: 01/14/25 09:20

## 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		01/16/25 08:49	01/16/25 16:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/16/25 08:49	01/16/25 16:55	1
Ethylbenzene	<0.00200	U **	0.00200	mg/Kg		01/16/25 08:49	01/16/25 16:55	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		01/16/25 08:49	01/16/25 16:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/16/25 08:49	01/16/25 16:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/16/25 08:49	01/16/25 16:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			01/16/25 08:49	01/16/25 16:55	1
1,4-Difluorobenzene (Surr)	93		70 - 130			01/16/25 08:49	01/16/25 16:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/15/25 03:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		01/14/25 10:26	01/15/25 03:27	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/14/25 10:26	01/15/25 03:27	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/14/25 10:26	01/15/25 03:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	68	S1-	70 - 130			01/14/25 10:26	01/15/25 03:27	1
o-Terphenyl (Surr)	66	S1-	70 - 130			01/14/25 10:26	01/15/25 03:27	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		50.2	mg/Kg			01/16/25 18:03	5

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## Surrogate Summary

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

Job ID: 880-53142-1  
SDG: 25-0101-01

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-53142-1	S-1 0	92	89
880-53142-1 MS	S-1 0	97	103
880-53142-1 MSD	S-1 0	117	88
880-53142-2	S-1 0.5	95	90
880-53142-3	S-2 0	90	91
880-53142-4	S-2 0.5	96	89
880-53142-5	S-3 0	95	91
880-53142-6	S-3 0.5	105	86
880-53142-7	S-4 0	96	92
880-53142-8	S-4 0.5	92	91
880-53142-9	S-5 0	137 S1+	99
880-53142-10	S-5 0.5	121	99
880-53142-11	S-6 0	96	93
880-53142-12	S-6 0.5	97	93
LCS 880-100396/1-A	Lab Control Sample	98	104
LCSD 880-100396/2-A	Lab Control Sample Dup	111	83
MB 880-100396/5-A	Method Blank	88	94
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-53142-1	S-1 0	102	101
880-53142-2	S-1 0.5	69 S1-	63 S1-
880-53142-2 MS	S-1 0.5	74	67 S1-
880-53142-2 MSD	S-1 0.5	73	66 S1-
880-53142-3	S-2 0	66 S1-	64 S1-
880-53142-4	S-2 0.5	63 S1-	60 S1-
880-53142-5	S-3 0	65 S1-	63 S1-
880-53142-6	S-3 0.5	58 S1-	57 S1-
880-53142-7	S-4 0	73	71
880-53142-8	S-4 0.5	66 S1-	63 S1-
880-53142-9	S-5 0	69 S1-	119
880-53142-10	S-5 0.5	70	81
880-53142-11	S-6 0	71	71
880-53142-12	S-6 0.5	68 S1-	66 S1-
LCS 880-100233/2-A	Lab Control Sample	104	115
LCS 880-100234/2-A	Lab Control Sample	88	83
LCSD 880-100233/3-A	Lab Control Sample Dup	109	116
LCSD 880-100234/3-A	Lab Control Sample Dup	85	80
MB 880-100233/1-A	Method Blank	145 S1+	272 S1+
MB 880-100234/1-A	Method Blank	76	77
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane (Surr)			

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Surrogate Summary

Client: Larson & Associates, Inc.  
Project/Site: Chamaeleon  
OTPH = o-Terphenyl (Surr)

Job ID: 880-53142-1  
SDG: 25-0101-01

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## QC Sample Results

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

Job ID: 880-53142-1  
SDG: 25-0101-01

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

Lab Sample ID: MB 880-100396/5-A

Matrix: Solid

Analysis Batch: 100394

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100396

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/16/25 08:49	01/16/25 11:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/16/25 08:49	01/16/25 11:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/16/25 08:49	01/16/25 11:25	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/16/25 08:49	01/16/25 11:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/16/25 08:49	01/16/25 11:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/16/25 08:49	01/16/25 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	01/16/25 08:49	01/16/25 11:25	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/16/25 08:49	01/16/25 11:25	1

Lab Sample ID: LCS 880-100396/1-A

Matrix: Solid

Analysis Batch: 100394

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1018		mg/Kg		102	70 - 130
Toluene	0.100	0.1036		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130
m,p-Xylenes	0.200	0.2013		mg/Kg		101	70 - 130
o-Xylene	0.100	0.09827		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-100396/2-A

Matrix: Solid

Analysis Batch: 100394

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100396

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1003		mg/Kg		100	70 - 130	2	35
Toluene	0.100	0.1183		mg/Kg		118	70 - 130	13	35
Ethylbenzene	0.100	0.1359	*+	mg/Kg		136	70 - 130	28	35
m,p-Xylenes	0.200	0.2580		mg/Kg		129	70 - 130	25	35
o-Xylene	0.100	0.1252		mg/Kg		125	70 - 130	24	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 880-53142-1 MS

Matrix: Solid

Analysis Batch: 100394

Client Sample ID: S-1 0

Prep Type: Total/NA

Prep Batch: 100396

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1021		mg/Kg		102	70 - 130
Toluene	<0.00200	U	0.100	0.1029		mg/Kg		103	70 - 130

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## QC Sample Results

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

Job ID: 880-53142-1  
SDG: 25-0101-01

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

Lab Sample ID: 880-53142-1 MS

Matrix: Solid

Analysis Batch: 100394

Client Sample ID: S-1 0

Prep Type: Total/NA

Prep Batch: 100396

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U *	0.100	0.1013		mg/Kg		101	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.1970		mg/Kg		99	70 - 130
o-Xylene	<0.00200	U	0.100	0.09606		mg/Kg		96	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	97		70 - 130						
1,4-Difluorobenzene (Surr)	103		70 - 130						

Lab Sample ID: 880-53142-1 MSD

Matrix: Solid

Analysis Batch: 100394

Client Sample ID: S-1 0

Prep Type: Total/NA

Prep Batch: 100396

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09216		mg/Kg		92	70 - 130	10	35
Toluene	<0.00200	U	0.100	0.1057		mg/Kg		106	70 - 130	3	35
Ethylbenzene	<0.00200	U *	0.100	0.1172		mg/Kg		117	70 - 130	14	35
m,p-Xylenes	<0.00399	U	0.200	0.2274		mg/Kg		114	70 - 130	14	35
o-Xylene	<0.00200	U	0.100	0.1105		mg/Kg		110	70 - 130	14	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	117		70 - 130								
1,4-Difluorobenzene (Surr)	88		70 - 130								

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

Lab Sample ID: MB 880-100233/1-A

Matrix: Solid

Analysis Batch: 100200

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100233

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/14/25 10:22	01/14/25 16:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/14/25 10:22	01/14/25 16:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/14/25 10:22	01/14/25 16:11	1
Surrogate	MB %Recovery	MB Qualifier	Limits					
1-Chlorooctane (Surr)	145	S1+	70 - 130					
o-Terphenyl (Surr)	272	S1+	70 - 130					

Lab Sample ID: LCS 880-100233/2-A

Matrix: Solid

Analysis Batch: 100200

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1023		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1076		mg/Kg		108	70 - 130

Eurofins Midland

## QC Sample Results

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

Job ID: 880-53142-1  
SDG: 25-0101-01

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

Lab Sample ID: LCS 880-100233/2-A

Matrix: Solid

Analysis Batch: 100200

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100233

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	115		70 - 130

Lab Sample ID: LCSD 880-100233/3-A

Matrix: Solid

Analysis Batch: 100200

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100233

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1029		mg/Kg		103	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1084		mg/Kg		108	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	109		70 - 130
o-Terphenyl (Surr)	116		70 - 130

Lab Sample ID: MB 880-100234/1-A

Matrix: Solid

Analysis Batch: 100195

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100234

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/14/25 10:26	01/14/25 23:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/14/25 10:26	01/14/25 23:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/14/25 10:26	01/14/25 23:48	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane (Surr)	76		70 - 130	01/14/25 10:26	01/14/25 23:48	1
o-Terphenyl (Surr)	77		70 - 130	01/14/25 10:26	01/14/25 23:48	1

Lab Sample ID: LCS 880-100234/2-A

Matrix: Solid

Analysis Batch: 100195

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100234

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	872.7		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	844.1		mg/Kg		84	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	83		70 - 130

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## QC Sample Results

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

Job ID: 880-53142-1  
SDG: 25-0101-01

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

Lab Sample ID: LCSD 880-100234/3-A

Matrix: Solid

Analysis Batch: 100195

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100234

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	837.5		mg/Kg		84	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	821.2		mg/Kg		82	70 - 130	3	20
		LCSD	LCSD						
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	85		70 - 130						
o-Terphenyl (Surr)	80		70 - 130						

Lab Sample ID: 880-53142-2 MS

Matrix: Solid

Analysis Batch: 100195

Client Sample ID: S-1 0.5

Prep Type: Total/NA

Prep Batch: 100234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	712.1		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	996	752.5		mg/Kg		76	70 - 130		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	74		70 - 130								
o-Terphenyl (Surr)	67	S1-	70 - 130								

Lab Sample ID: 880-53142-2 MSD

Matrix: Solid

Analysis Batch: 100195

Client Sample ID: S-1 0.5

Prep Type: Total/NA

Prep Batch: 100234

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	645.1	F1	mg/Kg		65	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	725.0		mg/Kg		73	70 - 130	4	20
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	73		70 - 130								
o-Terphenyl (Surr)	66	S1-	70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100419/1-A

Matrix: Solid

Analysis Batch: 100434

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			01/16/25 16:05	1

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## QC Sample Results

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

Job ID: 880-53142-1  
SDG: 25-0101-01

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-100419/2-A

Matrix: Solid

Analysis Batch: 100434

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.5		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-100419/3-A

Matrix: Solid

Analysis Batch: 100434

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	235.1		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-53142-1 MS

Matrix: Solid

Analysis Batch: 100434

Client Sample ID: S-1 0

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	229	F1	252	508.2	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-53142-1 MSD

Matrix: Solid

Analysis Batch: 100434

Client Sample ID: S-1 0

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	229	F1	252	509.4	F1	mg/Kg		111	90 - 110	0	20

Lab Sample ID: 880-53142-11 MS

Matrix: Solid

Analysis Batch: 100434

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	2840	F1	4970	8764	F1	mg/Kg		119	90 - 110

Lab Sample ID: 880-53142-11 MSD

Matrix: Solid

Analysis Batch: 100434

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	2840	F1	4970	8714	F1	mg/Kg		118	90 - 110	1	20

## QC Association Summary

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

Job ID: 880-53142-1  
SDG: 25-0101-01

## GC VOA

## Analysis Batch: 100394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Total/NA	Solid	8021B	100396
880-53142-2	S-1 0.5	Total/NA	Solid	8021B	100396
880-53142-3	S-2 0	Total/NA	Solid	8021B	100396
880-53142-4	S-2 0.5	Total/NA	Solid	8021B	100396
880-53142-5	S-3 0	Total/NA	Solid	8021B	100396
880-53142-6	S-3 0.5	Total/NA	Solid	8021B	100396
880-53142-7	S-4 0	Total/NA	Solid	8021B	100396
880-53142-8	S-4 0.5	Total/NA	Solid	8021B	100396
880-53142-9	S-5 0	Total/NA	Solid	8021B	100396
880-53142-10	S-5 0.5	Total/NA	Solid	8021B	100396
880-53142-11	S-6 0	Total/NA	Solid	8021B	100396
880-53142-12	S-6 0.5	Total/NA	Solid	8021B	100396
MB 880-100396/5-A	Method Blank	Total/NA	Solid	8021B	100396
LCS 880-100396/1-A	Lab Control Sample	Total/NA	Solid	8021B	100396
LCSD 880-100396/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100396
880-53142-1 MS	S-1 0	Total/NA	Solid	8021B	100396
880-53142-1 MSD	S-1 0	Total/NA	Solid	8021B	100396

## Prep Batch: 100396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Total/NA	Solid	5035	
880-53142-2	S-1 0.5	Total/NA	Solid	5035	
880-53142-3	S-2 0	Total/NA	Solid	5035	
880-53142-4	S-2 0.5	Total/NA	Solid	5035	
880-53142-5	S-3 0	Total/NA	Solid	5035	
880-53142-6	S-3 0.5	Total/NA	Solid	5035	
880-53142-7	S-4 0	Total/NA	Solid	5035	
880-53142-8	S-4 0.5	Total/NA	Solid	5035	
880-53142-9	S-5 0	Total/NA	Solid	5035	
880-53142-10	S-5 0.5	Total/NA	Solid	5035	
880-53142-11	S-6 0	Total/NA	Solid	5035	
880-53142-12	S-6 0.5	Total/NA	Solid	5035	
MB 880-100396/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100396/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100396/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-53142-1 MS	S-1 0	Total/NA	Solid	5035	
880-53142-1 MSD	S-1 0	Total/NA	Solid	5035	

## GC Semi VOA

## Analysis Batch: 100195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-2	S-1 0.5	Total/NA	Solid	8015B NM	100234
880-53142-3	S-2 0	Total/NA	Solid	8015B NM	100234
880-53142-4	S-2 0.5	Total/NA	Solid	8015B NM	100234
880-53142-5	S-3 0	Total/NA	Solid	8015B NM	100234
880-53142-6	S-3 0.5	Total/NA	Solid	8015B NM	100234
880-53142-7	S-4 0	Total/NA	Solid	8015B NM	100234
880-53142-8	S-4 0.5	Total/NA	Solid	8015B NM	100234
880-53142-9	S-5 0	Total/NA	Solid	8015B NM	100234
880-53142-10	S-5 0.5	Total/NA	Solid	8015B NM	100234

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## QC Association Summary

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

Job ID: 880-53142-1  
SDG: 25-0101-01

## GC Semi VOA (Continued)

## Analysis Batch: 100195 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-11	S-6 0	Total/NA	Solid	8015B NM	100234
880-53142-12	S-6 0.5	Total/NA	Solid	8015B NM	100234
MB 880-100234/1-A	Method Blank	Total/NA	Solid	8015B NM	100234
LCS 880-100234/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100234
LCSD 880-100234/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100234
880-53142-2 MS	S-1 0.5	Total/NA	Solid	8015B NM	100234
880-53142-2 MSD	S-1 0.5	Total/NA	Solid	8015B NM	100234

## Analysis Batch: 100200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Total/NA	Solid	8015B NM	100233
MB 880-100233/1-A	Method Blank	Total/NA	Solid	8015B NM	100233
LCS 880-100233/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100233
LCSD 880-100233/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100233

## Prep Batch: 100233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Total/NA	Solid	8015NM Prep	
MB 880-100233/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100233/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100233/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Prep Batch: 100234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-2	S-1 0.5	Total/NA	Solid	8015NM Prep	
880-53142-3	S-2 0	Total/NA	Solid	8015NM Prep	
880-53142-4	S-2 0.5	Total/NA	Solid	8015NM Prep	
880-53142-5	S-3 0	Total/NA	Solid	8015NM Prep	
880-53142-6	S-3 0.5	Total/NA	Solid	8015NM Prep	
880-53142-7	S-4 0	Total/NA	Solid	8015NM Prep	
880-53142-8	S-4 0.5	Total/NA	Solid	8015NM Prep	
880-53142-9	S-5 0	Total/NA	Solid	8015NM Prep	
880-53142-10	S-5 0.5	Total/NA	Solid	8015NM Prep	
880-53142-11	S-6 0	Total/NA	Solid	8015NM Prep	
880-53142-12	S-6 0.5	Total/NA	Solid	8015NM Prep	
MB 880-100234/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100234/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100234/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53142-2 MS	S-1 0.5	Total/NA	Solid	8015NM Prep	
880-53142-2 MSD	S-1 0.5	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 100305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Total/NA	Solid	8015 NM	
880-53142-2	S-1 0.5	Total/NA	Solid	8015 NM	
880-53142-3	S-2 0	Total/NA	Solid	8015 NM	
880-53142-4	S-2 0.5	Total/NA	Solid	8015 NM	
880-53142-5	S-3 0	Total/NA	Solid	8015 NM	
880-53142-6	S-3 0.5	Total/NA	Solid	8015 NM	
880-53142-7	S-4 0	Total/NA	Solid	8015 NM	
880-53142-8	S-4 0.5	Total/NA	Solid	8015 NM	

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## QC Association Summary

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

Job ID: 880-53142-1  
SDG: 25-0101-01

## GC Semi VOA (Continued)

## Analysis Batch: 100305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-9	S-5 0	Total/NA	Solid	8015 NM	
880-53142-10	S-5 0.5	Total/NA	Solid	8015 NM	
880-53142-11	S-6 0	Total/NA	Solid	8015 NM	
880-53142-12	S-6 0.5	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 100419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Soluble	Solid	DI Leach	
880-53142-2	S-1 0.5	Soluble	Solid	DI Leach	
880-53142-3	S-2 0	Soluble	Solid	DI Leach	
880-53142-4	S-2 0.5	Soluble	Solid	DI Leach	
880-53142-5	S-3 0	Soluble	Solid	DI Leach	
880-53142-6	S-3 0.5	Soluble	Solid	DI Leach	
880-53142-7	S-4 0	Soluble	Solid	DI Leach	
880-53142-8	S-4 0.5	Soluble	Solid	DI Leach	
880-53142-9	S-5 0	Soluble	Solid	DI Leach	
880-53142-10	S-5 0.5	Soluble	Solid	DI Leach	
880-53142-11	S-6 0	Soluble	Solid	DI Leach	
880-53142-12	S-6 0.5	Soluble	Solid	DI Leach	
MB 880-100419/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100419/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100419/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53142-1 MS	S-1 0	Soluble	Solid	DI Leach	
880-53142-1 MSD	S-1 0	Soluble	Solid	DI Leach	
880-53142-11 MS	S-6 0	Soluble	Solid	DI Leach	
880-53142-11 MSD	S-6 0	Soluble	Solid	DI Leach	

## Analysis Batch: 100434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Soluble	Solid	300.0	100419
880-53142-2	S-1 0.5	Soluble	Solid	300.0	100419
880-53142-3	S-2 0	Soluble	Solid	300.0	100419
880-53142-4	S-2 0.5	Soluble	Solid	300.0	100419
880-53142-5	S-3 0	Soluble	Solid	300.0	100419
880-53142-6	S-3 0.5	Soluble	Solid	300.0	100419
880-53142-7	S-4 0	Soluble	Solid	300.0	100419
880-53142-8	S-4 0.5	Soluble	Solid	300.0	100419
880-53142-9	S-5 0	Soluble	Solid	300.0	100419
880-53142-10	S-5 0.5	Soluble	Solid	300.0	100419
880-53142-11	S-6 0	Soluble	Solid	300.0	100419
880-53142-12	S-6 0.5	Soluble	Solid	300.0	100419
MB 880-100419/1-A	Method Blank	Soluble	Solid	300.0	100419
LCS 880-100419/2-A	Lab Control Sample	Soluble	Solid	300.0	100419
LCSD 880-100419/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100419
880-53142-1 MS	S-1 0	Soluble	Solid	300.0	100419
880-53142-1 MSD	S-1 0	Soluble	Solid	300.0	100419
880-53142-11 MS	S-6 0	Soluble	Solid	300.0	100419
880-53142-11 MSD	S-6 0	Soluble	Solid	300.0	100419

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Lab Chronicle

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

Job ID: 880-53142-1  
SDG: 25-0101-01

Client Sample ID: S-1 0  
Date Collected: 01/13/25 11:37  
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-1  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 11:46	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/14/25 22:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100233	01/14/25 10:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100200	01/14/25 22:59	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 16:23	CH	EET MID

Client Sample ID: S-1 0.5  
Date Collected: 01/13/25 11:42  
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-2  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 12:07	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 00:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 00:31	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 16:41	CH	EET MID

Client Sample ID: S-2 0  
Date Collected: 01/13/25 11:45  
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-3  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 12:27	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 01:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 01:16	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 16:47	CH	EET MID

Client Sample ID: S-2 0.5  
Date Collected: 01/13/25 11:47  
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-4  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 12:48	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 01:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 01:30	TKC	EET MID

Eurofins Midland

## Lab Chronicle

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

Job ID: 880-53142-1  
SDG: 25-0101-01

**Client Sample ID: S-2 0.5****Lab Sample ID: 880-53142-4****Date Collected: 01/13/25 11:47****Matrix: Solid****Date Received: 01/14/25 09:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 16:53	CH	EET MID

**Client Sample ID: S-3 0****Lab Sample ID: 880-53142-5****Date Collected: 01/13/25 11:50****Matrix: Solid****Date Received: 01/14/25 09:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 13:08	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 01:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 01:45	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 16:59	CH	EET MID

**Client Sample ID: S-3 0.5****Lab Sample ID: 880-53142-6****Date Collected: 01/13/25 11:52****Matrix: Solid****Date Received: 01/14/25 09:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 13:29	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 02:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 02:00	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 17:16	CH	EET MID

**Client Sample ID: S-4 0****Lab Sample ID: 880-53142-7****Date Collected: 01/13/25 11:54****Matrix: Solid****Date Received: 01/14/25 09:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 13:49	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 02:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 02:14	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 17:22	CH	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-53142-1  
SDG: 25-0101-01

Client Sample ID: S-4 0.5  
Date Collected: 01/13/25 11:56  
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-8  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 14:10	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 02:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 02:29	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 17:28	CH	EET MID

Client Sample ID: S-5 0  
Date Collected: 01/13/25 11:59  
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-9  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 14:30	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 02:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 02:43	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100434	01/16/25 17:34	CH	EET MID

Client Sample ID: S-5 0.5  
Date Collected: 01/13/25 12:02  
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-10  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 16:14	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 02:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 02:58	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 17:40	CH	EET MID

Client Sample ID: S-6 0  
Date Collected: 01/13/25 12:07  
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-11  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 16:35	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 03:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 03:12	TKC	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-53142-1  
SDG: 25-0101-01

Client Sample ID: S-6 0  
Date Collected: 01/13/25 12:07  
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-11  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	100434	01/16/25 17:46	CH	EET MID

Client Sample ID: S-6 0.5  
Date Collected: 01/13/25 12:09  
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-12  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 16:55	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 03:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 03:27	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100434	01/16/25 18:03	CH	EET MID

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



Accreditation/Certification Summary

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

Job ID: 880-53142-1  
SDG: 25-0101-01

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

Method Summary

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

Job ID: 880-53142-1  
SDG: 25-0101-01

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	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.

**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: Chamaeleon

Job ID: 880-53142-1  
SDG: 25-0101-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53142-1	S-1 0	Solid	01/13/25 11:37	01/14/25 09:20
880-53142-2	S-1 0.5	Solid	01/13/25 11:42	01/14/25 09:20
880-53142-3	S-2 0	Solid	01/13/25 11:45	01/14/25 09:20
880-53142-4	S-2 0.5	Solid	01/13/25 11:47	01/14/25 09:20
880-53142-5	S-3 0	Solid	01/13/25 11:50	01/14/25 09:20
880-53142-6	S-3 0.5	Solid	01/13/25 11:52	01/14/25 09:20
880-53142-7	S-4 0	Solid	01/13/25 11:54	01/14/25 09:20
880-53142-8	S-4 0.5	Solid	01/13/25 11:56	01/14/25 09:20
880-53142-9	S-5 0	Solid	01/13/25 11:59	01/14/25 09:20
880-53142-10	S-5 0.5	Solid	01/13/25 12:02	01/14/25 09:20
880-53142-11	S-6 0	Solid	01/13/25 12:07	01/14/25 09:20
880-53142-12	S-6 0.5	Solid	01/13/25 12:09	01/14/25 09:20

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No. 3189

# CHAIN-OF-CUSTODY

[illegible]

## Login Sample Receipt Checklist

Client: Larson &amp; Associates, Inc.

Job Number: 880-53142-1

SDG Number: 25-0101-01

Login Number: 53142

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	

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

Action 427947

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 427947
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500852292
Incident Name	NAPP2500852292 CHAMAELEON BIN STATE COM BATTERY @ 0
Incident Type	Fire
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2131330137] Chamaeleon BIN State Com Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Chamaeleon BIN State Com Battery
Date Release Discovered	12/29/2024
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
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	Cause: Equipment Failure   Other (Specify)   Crude Oil   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	Fluid overflowed and exited out of the flare.

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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, Page 2

Action 427947

**QUESTIONS (continued)**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 427947
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>More info needed to determine if this will be treated as a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.</b>
<i>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.</i>	

**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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<b>Not answered.</b>

*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	<b>Name: Amy Barnhill</b> <b>Title: Waste &amp; Water Specialist</b> <b>Email: ABarnhill@chevron.com</b> <b>Date: 02/04/2025</b>
--	---



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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, Page 3

Action 427947

**QUESTIONS (continued)**

Operator:  CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:  4323
	Action Number:  427947
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (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 ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	2840
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2020
GRO+DRO (EPA SW-846 Method 8015M)	2020
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	03/15/2025
On what date will (or did) the final sampling or liner inspection occur	04/01/2025
On what date will (or was) the remediation complete(d)	04/01/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	200
What is the estimated volume (in cubic yards) that will be remediated	25
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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, Page 4

Action 427947

**QUESTIONS (continued)**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 427947
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 02/04/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 427947

QUESTIONS (continued)

Operator:  CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:  4323
	Action Number:  427947
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 427947

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 427947
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 427947

CONDITIONS

Operator:  CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:  4323
	Action Number:  427947
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	The remediation plan is approved as written. Chevron has 90-days (May 19, 2025) to submit to OCD its appropriate or final remediation closure report.	2/18/2025