# Incident ID: nAPP2407138431
# Delineation Report and Remediation Plan
# Chamaeleon BIN State Com Battery – Spill 2
# Produced Water Release
## Eddy County, New Mexico

Latitude: 32.019642
Longitude: -104.14108

LAI Project No. 24-0117-01

July 17, 2024

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

Prepared by:
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# 1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Chevron USA, Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (NMOCD) District II in Artesia, New Mexico, for a produced water release at the Chamaeleon BIN State Com Battery (Site) located in Unit B (NW/4 of NE/4), Section 25, Township 26 South, Range 27 East in Eddy County, New Mexico. The geodetic position is North 32.019642°, and West -104.14108°. Figure 1 presents a topographic map.

## *1.1 Background*

The release was discovered on March 10, 2024, and resulted from a hole in a tank caused by corrosion, which allowed about five (5) barrels (bbls) of produced water and one (1) bbls of crude oil to be released. All released fluid was recovered according to the initial C-141. The incident occurred on land owned by the State of New Mexico land managed by New Mexico State Land Office (NMSLO). The spill covered an area of about 3,780 square feet inside of the lined tank battery containment. Notification of release was submitted to NMOCD District II on March 18, 2024, and assigned incident number nAPP2407138431.

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.
- There 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 underlaid 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.

### 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 LINER INSPECTION AND DELINEATION

### 2.1 Liner Inspection

On April 5, 2024, personnel from LAI inspected the lined containment for rips, holes and/or tears. Several holes or tears were observed in the liner. Notification for the liner inspection was submitted to NMOCD on April 3, 2024. Figure 2 presents a drawing showing locations for the holes and/or tears and liner sample locations. Appendix D presents photographs from the liner inspection. Appendix E presents the NMOCD notification.

### 2.2 Delineation

On April 19, 2024, LAI personnel used a stainless-steel hand trowel to collect 24 surface samples (S-1 through S-24) from the holes and/or tears to determine if the release impacted soil beneath the liner. The samples were delivered under chain-of-custody and preservation to Eurofins Laboratories (Eurofins) in Midland, Texas. The samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW-846 Method 8021B; total petroleum hydrocarbons (TPH), including gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) by Method 8015M; and chloride by EPA Method 300.

Eurofins reported benzene and BTEX below the NMOCD remediation standards in Table 1 of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg, respectively. TPH ranged between 107 mg/Kg (S-23) and 8,720 mg/Kg (S-4) and exceeded the NMOCD remediation standard of 100 mg/Kg 19.15.29 NMAC. Chloride ranged between 800 mg/Kg (S-7) and 54,700 mg/Kg (S-23). Notification for the soil sampling event was submitted to NMOCD on April 17, 2024. Appendix E presents the NMOCD notification.

Between June 18 and 19, 2024, LAI personnel used a stainless-steel hand auger to collect soil samples at six (6) locations inside of the containment (SP-1 through SP-6) and four (4) locations outside of the containment (SP-7 through SP-10). Samples inside of the spill area were collected between

one (1) foot bgs and three (3) feet bgs depending on subsurface conditions, while the horizontal delineation samples were collected from ground surface to 0.5 feet bgs. Each delineation sample location inside of the containment represents an area integrating the initial liner sample locations collected on April 19, 2024, where SP-1 includes samples S-1 through S-9, SP-2 includes S-10 through S-13, SP-3 includes samples S-14 through S-17, SP-4 includes samples S-18 through S-21, SP-5 includes samples S-22 and S-23, and SP-6 includes sample S-24.

The samples were delivered under chain-of-custody and preservation to Eurofins and were analyzed for BTEX, TPH, and chloride by the aforementioned analytical methods. Eurofins reported benzene and BTEX below NMOCD remediation standards of 10 mg/Kg and 50 mg/Kg, respectfully. Chloride and/or TPH were reported above the NMOCD remediation limits of 600 mg/Kg and 100 mg/Kg, respectively, in the following samples:

| Sample | TPH (mg/Kg) | Chloride (mg/Kg) |
|---|---|---|
| SP-2 | 667 | |
| SP-3 | 1,120 | 16,800 |
| SP-4 | 149 | 4,200 |
| SP-5 | -- | 2,070 |
| SP-6 | -- | 1,070 |
| SP-8 | -- | 841 |
| SP-10 | -- | 1,030 |

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 and 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.

## 3.0 REMEDIATION PLAN

Chevron proposes the following remedial actions:

- A horizontal delineation sample (SP-10) was collected about 30 feet upgradient to 0.5 feet bgs in an area not impacted by the release and had chloride value of 1,030 mg/Kg. Chevron requests that this value be used as natural background occurrence for chloride and for chloride closure criteria.
- Use hydro and mechanical excavation methods to remove about 540 cubic yards of soil from an area of approximately 4,600 square feet to a depth of three (3) feet bgs, or where remediation parameter (benzene, BTEX, TPH, chloride) concentrations are below the NMOCD closure criteria (benzene, BTEX and TPH) or background concentrations (chloride).
- Collect about 42 composite confirmation samples from the bottom and sidewalls of the excavation, or approximately every 200 square feet, and analyze for BTEX, TPH, and chloride.

- Collect samples from delineation sample locations SP-02 through SP-06, SP-08, and SP-10, and proposed sample locations SP-11 and SP-12, and analyze all delineation samples for BTEX, TPH, and chloride.
- Backfill excavation with non-waste containing soil to surface level, assuming all confirmation samples are below NMOCD closure criteria.
- Repair liner similar thickness liner currently used inside the containment.
- Prepare closure report for submittal to the NMOCD.

Figure 3 presents the proposed excavation map.

# Tables

**Table 1**
**Liner Sample Analytical Data Summary**
**Chevron - Chamaeleon BIN State Com Battery 2nd Spill**
**Eddy County, New Mexico**
**32° 01' 11.05" N, 104° 8' 26.45" W**



| Sample | Depth (Feet) | Collection Date | Status | Benzene (mg/Kg) | BTEX (mg/Kg) | C6 - C12 (mg/Kg) | C12 - C28 (mg/Kg) | C28 - C35 (mg/Kg) | TPH (mg/Kg) | Chloride (mg/Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Delineation Limit:** | | | | **10** | **50** | | | | **100** | **600** |
| **S-1** | 0 | 4/19/2024 | In-Situ | <0.00199 | <0.00398 | <249 | 3,930 | <249 | **3,930** | **27,100** |
| **S-2** | 0 | 4/19/2024 | In-Situ | <0.00200 | <0.00399 | <49.8 | 166 | <49.8 | **166** | **8,150** |
| **S-3** | 0 | 4/19/2024 | In-Situ | <0.00202 | <0.00404 | <249 | 2,830 | <249 | **2,830** | **23,300** |
| **S-4** | 0 | 4/19/2024 | In-Situ | <0.0996 | 1.28 | <248 | 8720 | <248 | **8,720** | **3,710** |
| **S-5** | 0 | 4/19/2024 | In-Situ | <0.0998 | 1.05 | <250 | 1,990 | <250 | **1,990** | **10,400** |
| **S-6** | 0 | 4/19/2024 | In-Situ | <0.100 | 0.568 | <249 | 2,470 | <249 | **2,470** | **9,000** |
| **S-7** | 0 | 4/19/2024 | In-Situ | <0.00201 | <0.00402 | <49.7 | 217.0 | <49.7 | **217** | **800** |
| **S-8** | 0 | 4/19/2024 | In-Situ | <0.00200 | <0.00400 | <49.6 | 260 | <49.6 | **260** | **8,810** |
| **S-9** | 0 | 4/19/2024 | In-Situ | <0.00199 | <0.00398 | <248 | 5,550 | <248 | **5,550** | **1,330** |
| **S-10** | 0 | 4/19/2024 | In-Situ | <0.00199 | 0.0234 | <248 | 796 | <248 | **796** | **5,270** |
| **S-11** | 0 | 4/19/2024 | In-Situ | <0.00202 | <0.00404 | <250 | 6,700 | <250 | **6,700** | **3,360** |
| **S-12** | 0 | 4/19/2024 | In-Situ | <0.0996 | 0.209 | <250 | 2,970 | <250 | **2,970** | **12,500** |
| **S-13** | 0 | 4/19/2024 | In-Situ | <0.0994 | 1.90 | <49.8 | 1,000 | <49.8 | **1,000** | **15,800** |
| **S-14** | 0 | 4/19/2024 | In-Situ | <0.00201 | 0.0967 | <249 | 5,050 | <249 | **5,050** | **1,950** |

**Table 1**

**Liner Sample Analytical Data Summary**

**Chevron - Chamaeleon BIN State Com Battery 2nd Spill**

**Eddy County, New Mexico**

**32° 01' 11.05" N, 104° 8' 26.45" W**



| Sample | Depth (Feet) | Collection Date | Status | Benzene (mg/Kg) | BTEX (mg/Kg) | C6 - C12 (mg/Kg) | C12 - C28 (mg/Kg) | C28 - C35 (mg/Kg) | TPH (mg/Kg) | Chloride (mg/Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Delineation Limit:** | | | | **10** | **50** | | | | **100** | **600** |
| **S-15** | 0 | 4/19/2024 | In-Situ | <0.00200 | 0.0267 | <248 | 2,640 | <248 | **2,640** | **17,400** |
| **S-16** | 0 | 4/19/2024 | In-Situ | <0.00200 | 0.00931 | <49.6 | 426 | <49.6 | **426** | **24,100** |
| **S-17** | 0 | 4/19/2024 | In-Situ | <0.00202 | 0.0286 | <49.5 | 1,620 | <49.5 | **1,620** | **17,100** |
| **S-18** | 0 | 4/19/2024 | In-Situ | 0.0108 | 0.135 | 276 | 6,200 | <50.0 | **6,480** | **18,700** |
| **S-19** | 0 | 4/19/2024 | In-Situ | <0.00198 | 0.114 | <249 | 5,220 | <249 | **5,220** | **25,800** |
| **S-20** | 0 | 4/19/2024 | In-Situ | <0.00200 | 0.0348 | <249 | 7,280 | <249 | **7,280** | **23,000** |
| **S-21** | 0 | 4/19/2024 | In-Situ | <0.0402 | <0.0805 | <49.7 | 1,200 | <49.7 | **1,200** | **7,050** |
| **S-22** | 0 | 4/19/2024 | In-Situ | <0.00198 | <0.00397 | <50.0 | 372 | <50.0 | **372** | **24,000** |
| **S-23** | 0 | 4/19/2024 | In-Situ | <0.00198 | <0.00396 | <50.0 | 107 | <50.0 | **107** | **54,700** |
| **S-24** | 0 | 4/19/2024 | In-Situ | <0.00199 | <0.00398 | <49.8 | <49.8 | <49.8 | <49.8 | **20,300** |

Notes: Analysis performed byand Xenco Laboratories in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride)
Depth in feet below ground surface (bgs)
mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)
<: denotes concentration less than analytical method reporting limit
**Bold and Highlighted exceeds OCD remediation action limits**

**Table 2**
**Delineation Soil Sample Analytical Data Summary**
**Chamaeleon BIN State Com Battery - Spill 2**
**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) |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Delineation Limits:*** | | | | ***10*** | ***50*** | | | | ***100*** | ***600*** |
| **SP-1** | 1 | 06/18/2024 | In-situ | <0.00200 | <0.00400 | <49.8 | <49.8 | <49.8 | <49.8 | **733** |
| **SP-1** | 3 | 06/18/2024 | In-situ | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | **294** |
| **SP-2** | 1 | 06/18/2024 | In-situ | <0.00201 | <0.00402 | <50.0 | **667** | <50.0 | **667** | **520** |
| **SP-3** | 0.5 | 06/18/2024 | In-situ | <0.00200 | <0.00399 | <49.7 | **1,120** | <49.7 | **1,120** | **16,800** |
| **SP-4** | 0.5 | 06/18/2024 | In-situ | <0.00199 | **0.0124** | <49.8 | **149** | <49.8 | **149** | **4,200** |
| **SP-5** | 1 | 06/18/2024 | In-situ | <0.00201 | **0.0615** | <49.8 | <49.8 | <49.8 | <49.8 | **2,070** |
| **SP-6** | 1 | 06/18/2024 | In-situ | <0.00202 | <0.00404 | <49.9 | <49.9 | <49.9 | <49.9 | **1,190** |
| **SP-6** | 2 | 06/18/2024 | In-situ | <0.00200 | <0.00400 | <50.0 | <50.0 | <50.0 | <50.0 | **1,070** |
| **SP-7** | 0.5 | 06/19/2024 | In-situ | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | **501** |
| **SP-8** | 0.5 | 06/19/2024 | In-situ | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | **841** |
| **SP-9** | 0.5 | 06/19/2024 | In-situ | <0.00198 | <0.00396 | <49.8 | <49.8 | <49.8 | <49.8 | **532** |
| **SP-10** | 0.5 | 06/19/2024 | In-situ | <0.00200 | <0.00401 | <49.7 | <49.7 | <49.7 | <49.7 | **1,030** |
| | | | | | | | | | | |

***Notes:***

*Analysis performed by Eurofins-Xenco (Xenco), in Midland, Texas, by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and EPA Method 300 (chloride).*
*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 method analytical reporting limit*
*Depth reported in feet below ground surface (bgs)*
***Bold and highlighted indicates parameter concentration is above NMOCD closure criteria***

# Figures

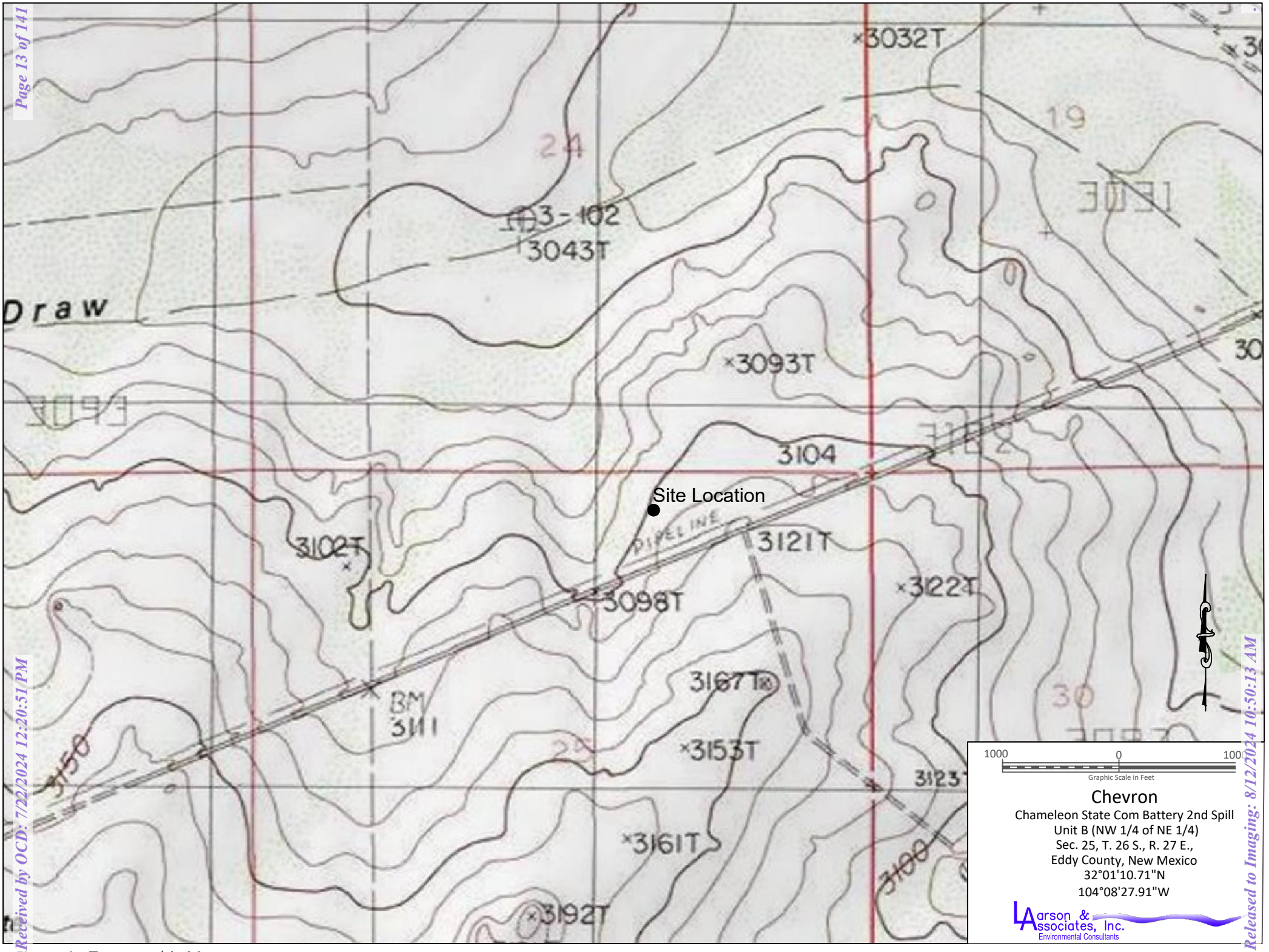


Figure 1 - Topographic Map






Figure 2 - Aerial Map with Liner Hole and/or Tear Locations and Liner Sample Locations


Figure 2 - Aerial Map

# Appendix A

# Initial C-141 and Spill Calculation

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

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

QUESTIONS

Action 323984

## QUESTIONS

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>323984 |
| | Action Type:<br>[C-141] Initial C-141 (C-141-v-Initial) |

**QUESTIONS**

| **Prerequisites** | |
|---|---|
| Incident ID (n#) | **nAPP2407138431** |
| Incident Name | **NAPP2407138431 CHAMAELEON BIN STATE COM BATTERY @ 0** |
| Incident Type | **Produced Water Release** |
| 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 | 03/10/2024 |
| Surface Owner | State |

| **Incident Details** | |
|---|---|
| *Please answer all the questions in this group.* | |
| Incident Type | Produced Water Release |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

| **Nature and Volume of Release** | |
|---|---|
| *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.* | |
| Crude Oil Released (bbls) Details | Cause: Corrosion \| Tank (Any) \| Crude Oil \| Released: 1 BBL \| Recovered: 1 BBL \| Lost: 0 BBL. |
| Produced Water Released (bbls) Details | Cause: Corrosion \| Tank (Any) \| Produced Water \| Released: 5 BBL \| Recovered: 5 BBL \| Lost: 0 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | Yes |
| Condensate Released (bbls) Details | *Not answered.* |
| Natural Gas Vented (Mcf) Details | *Not answered.* |
| Natural Gas Flared (Mcf) Details | *Not answered.* |
| Other Released Details | *Not answered.* |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | *Not answered.* |

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Phone:(505) 476-3470 Fax:(505) 476-3462

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



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>323984 |
| | Action Type:<br>[C-141] Initial C-141 (C-141-v-Initial) |

**QUESTIONS**

| **Nature and Volume of Release (continued)** | |
|---|---|
| Is this a gas only submission (i.e. only significant Mcf values reported) | **No, according to supplied volumes this does not appear to be a "gas only" report.** |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | **No** |
| Reasons why this would be considered a submission for a notification of a major release | *Unavailable.* |
| *With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.* | |

| **Initial Response** | |
|---|---|
| *The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.* | |
| The source of the release has been stopped | True |
| The impacted area has been secured to protect human health and the environment | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately | True |
| If all the actions described above have not been undertaken, explain why | *Not answered.* |
| *Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.* | |

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

| | |
|---|---|
| I hereby agree and sign off to the above statement | Name: Kennedy Lincoln<br>Title: Environmental Specialist<br>Email: kennedy.lincoln@chevron.com<br>Date: 03/18/2024 |

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



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>323984 |
| | Action Type:<br>[C-141] Initial C-141 (C-141-v-Initial) |

**QUESTIONS**

| **Site Characterization** | |
|---|---|
| *Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.* | |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | *Not answered.* |
| What method was used to determine the depth to ground water | *Not answered.* |
| Did this release impact groundwater or surface water | *Not answered.* |
| **What is the minimum distance, between the closest lateral extents of the release and the following surface areas:** | |
| A continuously flowing watercourse or any other significant watercourse | *Not answered.* |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | *Not answered.* |
| An occupied permanent residence, school, hospital, institution, or church | *Not answered.* |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | *Not answered.* |
| Any other fresh water well or spring | *Not answered.* |
| Incorporated municipal boundaries or a defined municipal fresh water well field | *Not answered.* |
| A wetland | *Not answered.* |
| A subsurface mine | *Not answered.* |
| An (non-karst) unstable area | *Not answered.* |
| Categorize the risk of this well / site being in a karst geology | *Not answered.* |
| A 100-year floodplain | *Not answered.* |
| Did the release impact areas not on an exploration, development, production, or storage site | *Not answered.* |

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

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

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



## CONDITIONS

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>323984 |
| | Action Type:<br>[C-141] Initial C-141 (C-141-v-Initial) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| scwells | None | 3/18/2024 |

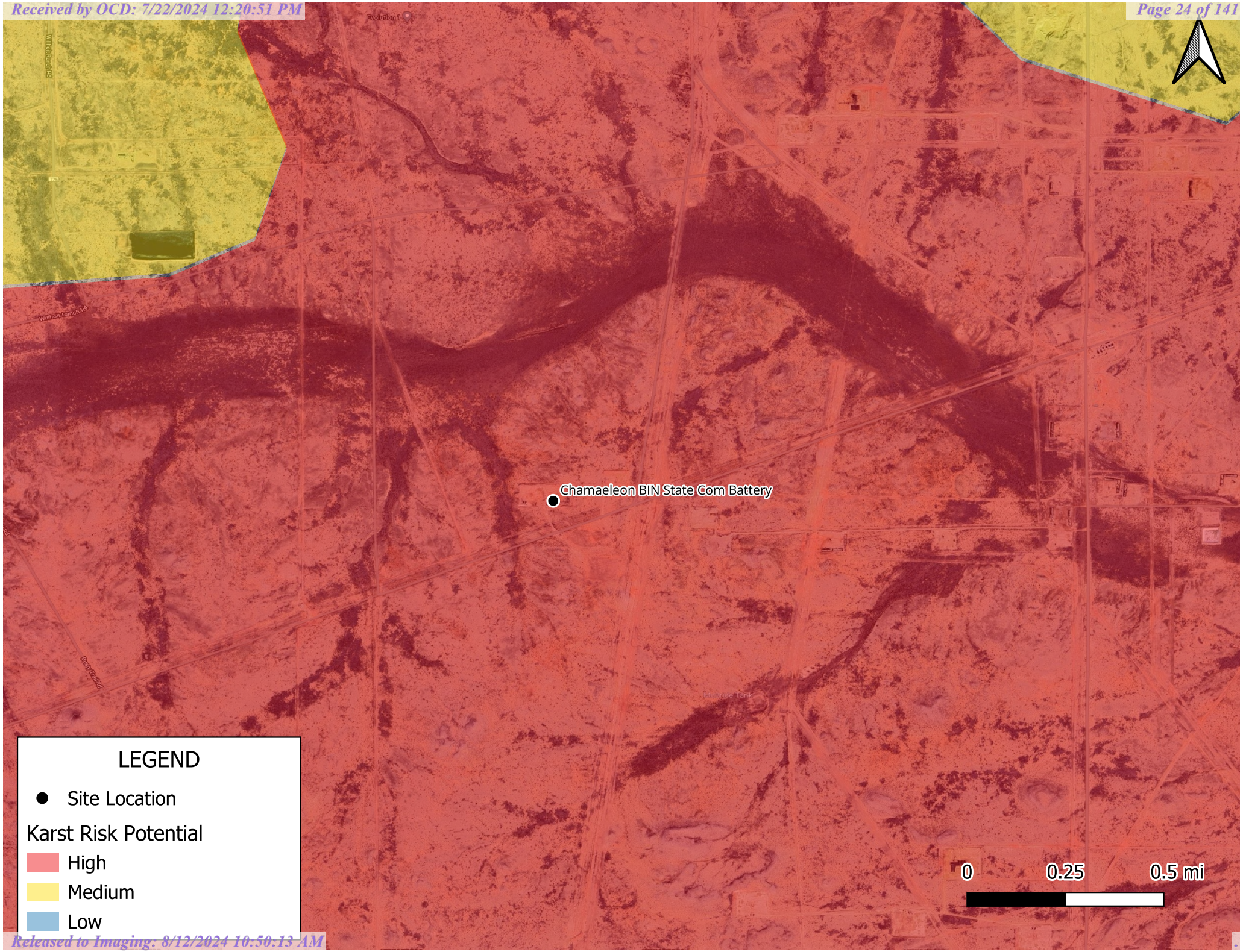
| Area | Shape | Length (ft) | Width (ft) | Standing Depth (ft) | Soil Penetration (ft) | Standing Volume | In-Soil Volume | Total Volume |
|---|---|---|---|---|---|---|---|---|
| 1 | Rectangle | 30.0 | 4.0 | 0.1667 | 0.0000 | 3.56 | 0.00 | 3.56 |
| 2 | Rectangle | 20.0 | 2.0 | 0.1667 | 0.0000 | 1.19 | **0.00** | 1.19 |
| 3 | Rectangle | 20.0 | 2.0 | 0.1667 | 0.0000 | 1.19 | **0.00** | 1.19 |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| | | | | | | **Total Volume (bbl)** | | **5.94** |

Click on the shape box and select shape

| Conversion Table | |
|---|---|
| Inches | Feet |
| 1 inch | 0.0833 |
| 2 inches | 0.1667 |
| 3 inches | 0.2500 |
| 4 inches | 0.3333 |
| 5 inches | 0.4167 |
| 6 inches | 0.5000 |
| 7 inches | 0.5833 |
| 8 inches | 0.6667 |
| 9 inches | 0.7500 |
| 10 inches | 0.8333 |
| 11 inches | 0.9167 |
| 1/256 inch | 0.0003 |
| 1/128 inch | 0.0007 |
| 1/64 inch | 0.0013 |
| 1/32 inch | 0.0026 |
| 1/16 inch | 0.0052 |
| 1/8 inch | 0.0104 |
| 1/4 inch | 0.0208 |
| 3/8 inch | 0.0313 |
| 1/2 inch | 0.0417 |
| 5/8 inch | 0.0521 |
| 3/4 inch | 0.0625 |
| 7/8 inch | 0.0729 |

# Appendix B

# Karst Risk Potential


Chamaeleon BIN State Com Battery
LEGEND
Site Location
Karst Risk Potential
High
Medium
Low
0
0.25
0.5 mi

# Appendix C

# Well Record and Log

2

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

H72362

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 ¼ S.W ¼ SE ¼ ____ ¼ 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. 1027

Address P.O. Box 72

Drilling Began 9-6-02 Completed 9-12-02 Type tools Cable Size of hole 7" 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 From | Depth in Feet To | Thickness in Feet | Description of Water-Bearing Formation | Estimated Yield (gallons per minute) |
|---|---|---|---|---|
| 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 Top | Depth in Feet Bottom | Length (feet) | Type of Shoe | Perforations From | Perforations To |
|---|---|---|---|---|---|---|---|---|
| 6" | | | 100' | 100' | | N/A | 50' | 100' |
| | | | | | | | | |
| | | | | | | | | |

Section 4. RECORD OF MUDDING AND CEMENTING

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

STATE ENGINEER OFFICE ROSWELL, NEW MEXICO 2002 DEC 19 PM 3:51

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____
State Engineer Representative

| No. | Depth in Feet Top | Depth in Feet Bottom | Cubic Feet of Cement |
|---|---|---|---|
| 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

Section 6. LOG OF HOLE

| Depth in Feet From | Depth in Feet To | Thickness in Feet | Color and Type of Material Encountered |
|---|---|---|---|
| 0' | 35' | 35' | Topsoil & Caliche |
| 35' | 45' | 10' | Gypsum & Red Sand |
| 45' | 50' | 5' | Red Sand & Anhydrite |
| 50' | 62' | 12' | Lime & Sand & Gravel (water) |
| 62' | 72' | 10' | Tan/White Sand |
| 72' | 76' | 4' | Red Bed |
| 76' | 80' | 4' | Anhydrite |
| 80' | 100' | 20' | Lime (water) |

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Scott Dobson
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

# Appendix D

# Photographic Documentation


Well sign at the Chamaeleon/Cassiopeia central tank battery, viewing to the south.


Lined tank battery containment where release occurred, viewing to the west.


Lined tank battery containment where release occurred, viewing to the west.


Lined tank battery containment where release occurred, viewing to the west.


Lined tank battery containment where release occurred, viewing to the west.


Lined tank battery containment where release occurred, viewing to the east.


Lined tank battery containment where release occurred, viewing to the west.


Lined tank battery containment where release occurred, viewing to the southwest.


Lined tank battery containment where release occurred, viewing to the southeast.


Lined tank battery containment where release occurred, viewing to the northwest.


Lined tank battery containment where release occurred, viewing to the east.


Lined tank battery containment where release occurred, viewing to the northeast.


Lined tank battery containment where release occurred, viewing to the northeast.


Lined tank battery containment where release occurred, viewing to the east.


Lined tank battery containment where release occurred, viewing to the east.


Lined tank battery containment where release occurred, viewing to the east.


Lined tank battery containment where release occurred, viewing to the east.


Lined tank battery containment where release occurred, viewing to the west.

# Appendix E

# NMOCD Notifications

# [NOTIFY] Notification Of Liner Inspection (C-141L) Application

## Submission Information

| | | | |
|---|---|---|---|
| **Submission ID:** | 329367 | **Districts:** | Artesia |
| **Operator:** | [4323] CHEVRON U S A INC | **Counties:** | Eddy |
| **Description:** | CHEVRON U S A INC [4323]<br>, Chamaeleon BIN State Com Battery<br>, nAPP2407138431 | | |
| **Status:** | APPROVED | | |
| **Status Date:** | 04/03/2024 | | |
| **References (2):** | fAPP2131330137, nAPP2407138431 | | |

## Forms

This application type does not have attachments.

## Questions

### Prerequisites

| | |
|---|---|
| Incident ID (n#) | **nAPP2407138431** |
| Incident Name | **NAPP2407138431 CHAMAELEON BIN STATE COM BATTERY @ 0** |
| Incident Type | **Produced Water Release** |
| Incident Status | **Initial C-141 Approved** |
| Incident Facility | **[fAPP2131330137] Chamaeleon BIN State Com Battery** |

### Location of Release Source

| | |
|---|---|
| Site Name | **Chamaeleon BIN State Com Battery** |
| Date Release Discovered | **03/10/2024** |
| Surface Owner | **State** |

### Liner Inspection Event Information

*Please answer all the questions in this group.*

| | |
|---|---|
| What is the liner inspection surface area in square feet | 200 |
| Have all the impacted materials been removed from the liner | Yes |
| Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC | 04/05/2024 |
| Time liner inspection will commence | 08:00 AM |

***Warning: Notification can not be less than two business days prior to conducting liner inspection.***

| | |
|---|---|
| Please provide any information necessary for observers to liner inspection | Contact Amy Barnhill 432-687-7108 |
| Please provide any information necessary for navigation to liner inspection site | 32.01980338, -104.14089239 |

## Acknowledgments

This submission type does not have acknowledgments, at this time.

**Comments**

No comments found for this submission.

**Conditions**

**Summary:** *abarnhill (4/3/2024),* Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.

**Reasons**

No reasons found for this submission.

# [NOTIFY] Notification Of Sampling (C-141N) Application

## Submission Information

| | | | |
|---|---|---|---|
| **Submission ID:** | 334297 | **Districts:** | Artesia |
| **Operator:** | [4323] CHEVRON U S A INC | **Counties:** | Eddy |
| **Description:** | CHEVRON U S A INC [4323]<br>, Chamaeleon BIN State Com Battery<br>, nAPP2407138431 | | |
| **Status:** | APPROVED | | |
| **Status Date:** | 04/17/2024 | | |
| **References (2):** | fAPP2131330137, nAPP2407138431 | | |

## Forms

This application type does not have attachments.

## Questions

### Prerequisites

| | |
|---|---|
| Incident ID (n#) | **nAPP2407138431** |
| Incident Name | **NAPP2407138431 CHAMAELEON BIN STATE COM BATTERY @ 0** |
| Incident Type | **Produced Water Release** |
| Incident Status | **Initial C-141 Approved** |
| Incident Facility | **[fAPP2131330137] Chamaeleon BIN State Com Battery** |

### Location of Release Source

| | |
|---|---|
| Site Name | **Chamaeleon BIN State Com Battery** |
| Date Release Discovered | **03/10/2024** |
| Surface Owner | **State** |

### Sampling Event General Information

*Please answer all the questions in this group.*

| | |
|---|---|
| What is the sampling surface area in square feet | 5,000 |
| What is the estimated number of samples that will be gathered | 25 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 04/19/2024 |
| Time sampling will commence | 10:00 AM |

***Warning: Notification can not be less than two business days prior to conducting final sampling.***

| | |
|---|---|
| Please provide any information necessary for observers to contact samplers | Robert Nelson 432-687-0901 |
| Please provide any information necessary for navigation to sampling site | 32.019736,-104.14068 |

## Acknowledgments

This submission type does not have acknowledgments, at this time.

**Comments**

No comments found for this submission.

**Conditions**

**Summary:** *abarnhill (4/17/2024),* Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29 accepted.

**Reasons**

No reasons found for this submission.

# Appendix F

# Laboratory Reports

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 4/30/2024 12:49:35 PM

## JOB DESCRIPTION

Chamaeleon State Com Batttery 2nd Spill
24-0117-01

## JOB NUMBER

880-42576-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.





my EOL

# Eurofins Midland

## Job Notes

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

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

## Authorization

Holly Taylor

Generated
4/30/2024 12:49:35 PM

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

# Table of Contents

# Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Qualifiers

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| *- | LCS and/or LCSD is outside acceptance limits, low biased. |
| *1 | LCS/LCSD RPD exceeds control limits. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

### GC Semi VOA

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

### HPLC/IC

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

## Glossary

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

# Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project: Chamaeleon State Com Batttery 2nd Spill

## Job ID: 880-42576-1 Eurofins Midland

**Job Narrative**
**880-42576-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**
The samples were received on 4/23/2024 9:27 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 0.2°C.

**Receipt Exceptions**
The following samples were received and analyzed from an unpreserved bulk soil jar: S- 1, 0' (880-42576-1), S- 2, 0' (880-42576-2), S- 3, 0' (880-42576-3), S- 4, 0' (880-42576-4), S- 5, 0' (880-42576-5), S- 6, 0' (880-42576-6), S- 7, 0' (880-42576-7), S- 8, 0' (880-42576-8), S- 9, 0' (880-42576-9), S- 10, 0' (880-42576-10), S- 11, 0' (880-42576-11), S- 12, 0' (880-42576-12), S- 13, 0' (880-42576-13), S- 14, 0' (880-42576-14), S- 15, 0' (880-42576-15), S- 16, 0' (880-42576-16), S- 17, 0' (880-42576-17), S- 18, 0' (880-42576-18), S- 19, 0' (880-42576-19), S- 20, 0' (880-42576-20), S- 21, 0' (880-42576-21), S- 22, 0' (880-42576-22), S- 23, 0' (880-42576-23) and S- 24, 0' (880-42576-24).

**GC VOA**
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-79283 and analytical batch 880-79277 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.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S- 20, 0' (880-42576-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S- 16, 0' (880-42576-16), S- 17, 0' (880-42576-17), S- 18, 0' (880-42576-18) and S- 19, 0' (880-42576-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-79283 and analytical batch 880-79277 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m,p-Xylenes and o-Xylene.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-79049 and analytical batch 880-79381 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-79054, 880-79119 and 880-79289 and analytical batch 880-79383 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S- 14, 0' (880-42576-14) and S- 15, 0' (880-42576-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-79497 and analytical batch 880-79488 was outside the upper control limits.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: S- 21, 0' (880-42576-21). Elevated reporting limits (RLs) are provided.

Eurofins Midland

# Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project: Chamaeleon State Com Batttery 2nd Spill

## Job ID: 880-42576-1 (Continued) Eurofins Midland

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

**GC Semi VOA**
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-79037 and analytical batch 880-79001 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S- 19, 0' (880-42576-19), S- 21, 0' (880-42576-21) and S- 22, 0' (880-42576-22). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S- 3, 0' (880-42576-3), S- 4, 0' (880-42576-4), S- 5, 0' (880-42576-5), S- 6, 0' (880-42576-6), S- 9, 0' (880-42576-9), S- 10, 0' (880-42576-10), S- 11, 0' (880-42576-11), S- 12, 0' (880-42576-12), S- 14, 0' (880-42576-14), S- 15, 0' (880-42576-15), S- 17, 0' (880-42576-17) and S- 18, 0' (880-42576-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S- 1, 0' (880-42576-1). Evidence of matrix interferences is not obvious.

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

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

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 1, 0'
**Lab Sample ID: 880-42576-1**
**Date Collected: 04/19/24 10:05** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U F1 | 0.00199 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 11:46 | 1 |
| Toluene | <0.00199 | U F2 F1 | 0.00199 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 11:46 | 1 |
| Ethylbenzene | <0.00199 | U F2 F1 | 0.00199 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 11:46 | 1 |
| m,p-Xylenes | <0.00398 | U F2 F1 | 0.00398 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 11:46 | 1 |
| o-Xylene | <0.00199 | U F2 F1 | 0.00199 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 11:46 | 1 |
| Xylenes, Total | <0.00398 | U F2 F1 | 0.00398 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 11:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 11:46* | *1* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 11:46* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 04/26/24 11:46 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **3930** | | 249 | | mg/Kg | | | 04/25/24 17:35 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <249 | U | 249 | | mg/Kg | | 04/23/24 10:24 | 04/25/24 17:35 | 5 |
| **Diesel Range Organics (Over C10-C28)** | **3930** | | 249 | | mg/Kg | | 04/23/24 10:24 | 04/25/24 17:35 | 5 |
| Oil Range Organics (Over C28-C36) | <249 | U | 249 | | mg/Kg | | 04/23/24 10:24 | 04/25/24 17:35 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *158* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/25/24 17:35* | *5* |
| *o-Terphenyl (Surr)* | *139* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/25/24 17:35* | *5* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **27100** | | 248 | | mg/Kg | | | 04/26/24 00:43 | 50 |

## Client Sample ID: S- 2, 0'
**Lab Sample ID: 880-42576-2**
**Date Collected: 04/19/24 10:10** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### 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 | | 04/23/24 10:45 | 04/26/24 12:07 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:07 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:07 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:07 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:07 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 12:07* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 12:07* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 2, 0'
**Lab Sample ID: 880-42576-2**
**Date Collected: 04/19/24 10:10** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 04/26/24 12:07 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **166** | | 49.8 | | mg/Kg | | | 04/24/24 13:29 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 13:29 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **166** | | 49.8 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 13:29 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 13:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *100* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 13:29* | *1* |
| *o-Terphenyl (Surr)* | *99* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 13:29* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **8150** | | 99.8 | | mg/Kg | | | 04/26/24 01:02 | 20 |

## Client Sample ID: S- 3, 0'
**Lab Sample ID: 880-42576-3**
**Date Collected: 04/19/24 10:15** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### 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 | | 04/23/24 10:45 | 04/26/24 12:27 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:27 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:27 | 1 |
| m,p-Xylenes | <0.00404 | U | 0.00404 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:27 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:27 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 12:27* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 12:27* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00404 | U | 0.00404 | | mg/Kg | | | 04/26/24 12:27 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **2830** | | 249 | | mg/Kg | | | 04/24/24 15:37 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <249 | U | 249 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 15:37 | 5 |
| **Diesel Range Organics (Over C10-C28)** | **2830** | | 249 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 15:37 | 5 |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 3, 0'
**Lab Sample ID: 880-42576-3**
**Date Collected: 04/19/24 10:15** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <249 | U | 249 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 15:37 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *105* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 15:37* | *5* |
| *o-Terphenyl (Surr)* | *133* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/24/24 15:37* | *5* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **23300** | | 251 | | mg/Kg | | | 04/26/24 01:08 | 50 |

## Client Sample ID: S- 4, 0'
**Lab Sample ID: 880-42576-4**
**Date Collected: 04/19/24 10:20** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0996 | U | 0.0996 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:11 | 50 |
| Toluene | <0.0996 | U | 0.0996 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:11 | 50 |
| **Ethylbenzene** | **0.294** | | 0.0996 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:11 | 50 |
| **m,p-Xylenes** | **0.430** | | 0.199 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:11 | 50 |
| **o-Xylene** | **0.557** | | 0.0996 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:11 | 50 |
| **Xylenes, Total** | **0.987** | | 0.199 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:11 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 05:11* | *50* |
| *1,4-Difluorobenzene (Surr)* | *82* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 05:11* | *50* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **1.28** | | 0.199 | | mg/Kg | | | 04/26/24 05:11 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **8720** | | 248 | | mg/Kg | | | 04/24/24 15:51 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <248 | U | 248 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 15:51 | 5 |
| **Diesel Range Organics (Over C10-C28)** | **8720** | | 248 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 15:51 | 5 |
| Oil Range Organics (Over C28-C36) | <248 | U | 248 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 15:51 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *100* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 15:51* | *5* |
| *o-Terphenyl (Surr)* | *366* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/24/24 15:51* | *5* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3710** | | 100 | | mg/Kg | | | 04/26/24 01:14 | 20 |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 5, 0'
**Lab Sample ID: 880-42576-5**
**Date Collected: 04/19/24 10:25** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0998 | U | 0.0998 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:31 | 50 |
| Toluene | <0.0998 | U | 0.0998 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:31 | 50 |
| **Ethylbenzene** | **0.590** | | 0.0998 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:31 | 50 |
| **m,p-Xylenes** | **0.458** | | 0.200 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:31 | 50 |
| o-Xylene | <0.0998 | U | 0.0998 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:31 | 50 |
| **Xylenes, Total** | **0.458** | | 0.200 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:31 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 05:31* | *50* |
| *1,4-Difluorobenzene (Surr)* | *88* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 05:31* | *50* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **1.05** | | 0.200 | | mg/Kg | | | 04/26/24 05:31 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **1990** | | 250 | | mg/Kg | | | 04/24/24 16:06 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <250 | U | 250 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 16:06 | 5 |
| **Diesel Range Organics (Over C10-C28)** | **1990** | | 250 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 16:06 | 5 |
| Oil Range Organics (Over C28-C36) | <250 | U | 250 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 16:06 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *119* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 16:06* | *5* |
| *o-Terphenyl (Surr)* | *140* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/24/24 16:06* | *5* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **10400** | | 99.6 | | mg/Kg | | | 04/26/24 01:21 | 20 |

## Client Sample ID: S- 6, 0'
**Lab Sample ID: 880-42576-6**
**Date Collected: 04/19/24 10:30** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.100 | U | 0.100 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:52 | 50 |
| Toluene | <0.100 | U | 0.100 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:52 | 50 |
| Ethylbenzene | <0.100 | U | 0.100 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:52 | 50 |
| **m,p-Xylenes** | **0.387** | | 0.200 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:52 | 50 |
| **o-Xylene** | **0.181** | | 0.100 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:52 | 50 |
| **Xylenes, Total** | **0.568** | | 0.200 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 05:52 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 05:52* | *50* |
| *1,4-Difluorobenzene (Surr)* | *86* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 05:52* | *50* |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 6, 0'
**Lab Sample ID: 880-42576-6**
**Date Collected: 04/19/24 10:30** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.568** | | 0.200 | | mg/Kg | | | 04/26/24 05:52 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **2470** | | 249 | | mg/Kg | | | 04/24/24 16:20 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <249 | U | 249 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 16:20 | 5 |
| **Diesel Range Organics (Over C10-C28)** | **2470** | | 249 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 16:20 | 5 |
| Oil Range Organics (Over C28-C36) | <249 | U | 249 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 16:20 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *115* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 16:20* | *5* |
| *o-Terphenyl (Surr)* | *168* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/24/24 16:20* | *5* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **9000** | | 99.8 | | mg/Kg | | | 04/26/24 01:27 | 20 |

## Client Sample ID: S- 7, 0'
**Lab Sample ID: 880-42576-7**
**Date Collected: 04/19/24 10:35** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### 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 | | 04/23/24 10:45 | 04/26/24 12:47 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:47 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:47 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:47 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:47 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 12:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 12:47* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 12:47* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 04/26/24 12:47 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **217** | | 49.7 | | mg/Kg | | | 04/24/24 13:43 | 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 | <49.7 | U | 49.7 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 13:43 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **217** | | 49.7 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 13:43 | 1 |

Eurofins Midland

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 7, 0'
**Lab Sample ID: 880-42576-7**
**Date Collected: 04/19/24 10:35** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 13:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *119* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 13:43* | *1* |
| *o-Terphenyl (Surr)* | *114* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 13:43* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **800** | | 25.2 | | mg/Kg | | | 04/26/24 01:33 | 5 |

## Client Sample ID: S- 8, 0'
**Lab Sample ID: 880-42576-8**
**Date Collected: 04/19/24 10:40** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### 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 | | 04/23/24 10:45 | 04/26/24 13:08 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:08 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:08 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:08 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:08 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 13:08* | *1* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 13:08* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 04/26/24 13:08 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **260** | | 49.6 | | mg/Kg | | | 04/24/24 13:58 | 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 | <49.6 | U | 49.6 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 13:58 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **260** | | 49.6 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 13:58 | 1 |
| Oil Range Organics (Over C28-C36) | <49.6 | U | 49.6 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 13:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *108* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 13:58* | *1* |
| *o-Terphenyl (Surr)* | *112* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 13:58* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **8810** | | 99.6 | | mg/Kg | | | 04/26/24 01:52 | 20 |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: 880-42576-9**
**Date Collected: 04/19/24 10:45**
**Matrix: Solid**
**Date Received: 04/23/24 09:27**

### 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 | | 04/23/24 10:45 | 04/26/24 13:28 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:28 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:28 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:28 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:28 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 13:28* | *1* |
| *1,4-Difluorobenzene (Surr)* | *88* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 13:28* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 04/26/24 13:28 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **5550** | | 248 | | mg/Kg | | | 04/24/24 16:34 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <248 | U | 248 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 16:34 | 5 |
| **Diesel Range Organics (Over C10-C28)** | **5550** | | 248 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 16:34 | 5 |
| Oil Range Organics (Over C28-C36) | <248 | U | 248 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 16:34 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *107* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 16:34* | *5* |
| *o-Terphenyl (Surr)* | *206* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/24/24 16:34* | *5* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1330** | | 25.0 | | mg/Kg | | | 04/26/24 01:58 | 5 |

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

**Lab Sample ID: 880-42576-10**
**Date Collected: 04/19/24 10:50**
**Matrix: Solid**
**Date Received: 04/23/24 09:27**

### 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 | | 04/23/24 10:45 | 04/26/24 13:49 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:49 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:49 | 1 |
| **m,p-Xylenes** | **0.0234** | | 0.00398 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:49 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:49 | 1 |
| **Xylenes, Total** | **0.0234** | | 0.00398 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 13:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 13:49* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 13:49* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 10, 0'
**Lab Sample ID: 880-42576-10**
**Date Collected: 04/19/24 10:50** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0234** | | 0.00398 | | mg/Kg | | | 04/26/24 13:49 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **796** | | 248 | | mg/Kg | | | 04/24/24 16:49 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <248 | U | 248 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 16:49 | 5 |
| **Diesel Range Organics (Over C10-C28)** | **796** | | 248 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 16:49 | 5 |
| Oil Range Organics (Over C28-C36) | <248 | U | 248 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 16:49 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *114* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 16:49* | *5* |
| *o-Terphenyl (Surr)* | *134* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/24/24 16:49* | *5* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **5270** | | 100 | | mg/Kg | | | 04/26/24 02:17 | 20 |

## Client Sample ID: S- 11, 0'
**Lab Sample ID: 880-42576-11**
**Date Collected: 04/19/24 10:55** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### 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 | | 04/23/24 10:45 | 04/26/24 14:09 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 14:09 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 14:09 | 1 |
| m,p-Xylenes | <0.00404 | U | 0.00404 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 14:09 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 14:09 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 14:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 14:09* | *1* |
| *1,4-Difluorobenzene (Surr)* | *89* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 14:09* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00404 | U | 0.00404 | | mg/Kg | | | 04/26/24 14:09 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **6700** | | 250 | | mg/Kg | | | 04/24/24 17:03 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <250 | U | 250 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 17:03 | 5 |
| **Diesel Range Organics (Over C10-C28)** | **6700** | | 250 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 17:03 | 5 |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 11, 0'
**Lab Sample ID: 880-42576-11**
**Date Collected: 04/19/24 10:55** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <250 | U | 250 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 17:03 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *106* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 17:03* | *5* |
| *o-Terphenyl (Surr)* | *164* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/24/24 17:03* | *5* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3360** | | 99.8 | | mg/Kg | | | 04/26/24 02:24 | 20 |

## Client Sample ID: S- 12, 0'
**Lab Sample ID: 880-42576-12**
**Date Collected: 04/19/24 11:00** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0996 | U | 0.0996 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 06:12 | 50 |
| Toluene | <0.0996 | U | 0.0996 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 06:12 | 50 |
| Ethylbenzene | <0.0996 | U | 0.0996 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 06:12 | 50 |
| **m,p-Xylenes** | **0.209** | | 0.199 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 06:12 | 50 |
| o-Xylene | <0.0996 | U | 0.0996 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 06:12 | 50 |
| **Xylenes, Total** | **0.209** | | 0.199 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 06:12 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 06:12* | *50* |
| *1,4-Difluorobenzene (Surr)* | *82* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 06:12* | *50* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.209** | | 0.199 | | mg/Kg | | | 04/26/24 06:12 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **2970** | | 250 | | mg/Kg | | | 04/24/24 17:17 | 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 | <250 | U | 250 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 17:17 | 5 |
| **Diesel Range Organics (Over C10-C28)** | **2970** | | 250 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 17:17 | 5 |
| Oil Range Organics (Over C28-C36) | <250 | U | 250 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 17:17 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *130* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 17:17* | *5* |
| *o-Terphenyl (Surr)* | *167* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/24/24 17:17* | *5* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **12500** | | 251 | | mg/Kg | | | 04/26/24 02:30 | 50 |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 13, 0'
**Lab Sample ID: 880-42576-13**
**Date Collected: 04/19/24 11:05** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0994 | U | 0.0994 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 06:33 | 50 |
| Toluene | <0.0994 | U | 0.0994 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 06:33 | 50 |
| Ethylbenzene | <0.0994 | U | 0.0994 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 06:33 | 50 |
| m,p-Xylenes | <0.199 | U | 0.199 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 06:33 | 50 |
| **o-Xylene** | **1.90** | | 0.0994 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 06:33 | 50 |
| **Xylenes, Total** | **1.90** | | 0.199 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 06:33 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 06:33* | *50* |
| *1,4-Difluorobenzene (Surr)* | *85* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 06:33* | *50* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **1.90** | | 0.199 | | mg/Kg | | | 04/26/24 06:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **1000** | | 49.8 | | mg/Kg | | | 04/24/24 14:12 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 14:12 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **1000** | | 49.8 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 14:12 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 14:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *111* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 14:12* | *1* |
| *o-Terphenyl (Surr)* | *120* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 14:12* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **15800** | | 252 | | mg/Kg | | | 04/26/24 02:36 | 50 |

## Client Sample ID: S- 14, 0'
**Lab Sample ID: 880-42576-14**
**Date Collected: 04/19/24 11:10** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### 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 | | 04/23/24 10:45 | 04/26/24 18:05 | 1 |
| **Toluene** | **0.0475** | | 0.00201 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 18:05 | 1 |
| **Ethylbenzene** | **0.00227** | | 0.00201 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 18:05 | 1 |
| **m,p-Xylenes** | **0.0113** | | 0.00402 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 18:05 | 1 |
| **o-Xylene** | **0.0356** | | 0.00201 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 18:05 | 1 |
| **Xylenes, Total** | **0.0469** | | 0.00402 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 18:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *144* | *S1+* | *70 - 130* | *04/23/24 10:45* | *04/26/24 18:05* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 18:05* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 14, 0'
**Lab Sample ID: 880-42576-14**
**Date Collected: 04/19/24 11:10** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0967** | | 0.00402 | | mg/Kg | | | 04/26/24 18:05 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **5050** | | 249 | | mg/Kg | | | 04/24/24 17:31 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <249 | U | 249 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 17:31 | 5 |
| **Diesel Range Organics (Over C10-C28)** | **5050** | | 249 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 17:31 | 5 |
| Oil Range Organics (Over C28-C36) | <249 | U | 249 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 17:31 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *113* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 17:31* | *5* |
| *o-Terphenyl (Surr)* | *255* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/24/24 17:31* | *5* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1950** | | 49.6 | | mg/Kg | | | 04/26/24 02:43 | 10 |

## Client Sample ID: S- 15, 0'
**Lab Sample ID: 880-42576-15**
**Date Collected: 04/19/24 11:15** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### 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 | | 04/23/24 10:45 | 04/26/24 18:26 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 18:26 | 1 |
| **Ethylbenzene** | **0.00261** | | 0.00200 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 18:26 | 1 |
| **m,p-Xylenes** | **0.0139** | | 0.00399 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 18:26 | 1 |
| **o-Xylene** | **0.0102** | | 0.00200 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 18:26 | 1 |
| **Xylenes, Total** | **0.0241** | | 0.00399 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 18:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *148* | *S1+* | *70 - 130* | *04/23/24 10:45* | *04/26/24 18:26* | *1* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 18:26* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0267** | | 0.00399 | | mg/Kg | | | 04/26/24 18:26 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **2640** | | 248 | | mg/Kg | | | 04/24/24 17:45 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <248 | U | 248 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 17:45 | 5 |
| **Diesel Range Organics (Over C10-C28)** | **2640** | | 248 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 17:45 | 5 |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 15, 0'
**Lab Sample ID: 880-42576-15**
**Date Collected: 04/19/24 11:15** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <248 | U | 248 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 17:45 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *127* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 17:45* | *5* |
| *o-Terphenyl (Surr)* | *151* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/24/24 17:45* | *5* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **17400** | | 249 | | mg/Kg | | | 04/26/24 02:49 | 50 |

## Client Sample ID: S- 16, 0'
**Lab Sample ID: 880-42576-16**
**Date Collected: 04/19/24 11:20** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### 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 | | 04/25/24 14:09 | 04/26/24 03:49 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 03:49 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 03:49 | 1 |
| **m,p-Xylenes** | **0.00533** | | 0.00400 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 03:49 | 1 |
| **o-Xylene** | **0.00398** | | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 03:49 | 1 |
| **Xylenes, Total** | **0.00931** | | 0.00400 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 03:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *140* | *S1+* | *70 - 130* | *04/25/24 14:09* | *04/26/24 03:49* | *1* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 03:49* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00931** | | 0.00400 | | mg/Kg | | | 04/26/24 03:49 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **426** | | 49.6 | | mg/Kg | | | 04/24/24 14:26 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6 | U | 49.6 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 14:26 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **426** | | 49.6 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 14:26 | 1 |
| Oil Range Organics (Over C28-C36) | <49.6 | U | 49.6 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 14:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *117* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 14:26* | *1* |
| *o-Terphenyl (Surr)* | *122* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 14:26* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **24100** | | 253 | | mg/Kg | | | 04/26/24 02:55 | 50 |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 17, 0'
**Lab Sample ID: 880-42576-17**
**Date Collected: 04/19/24 11:25** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### 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 | | 04/25/24 14:09 | 04/26/24 04:10 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:10 | 1 |
| **Ethylbenzene** | **0.00242** | | 0.00202 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:10 | 1 |
| **m,p-Xylenes** | **0.0164** | | 0.00404 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:10 | 1 |
| **o-Xylene** | **0.00978** | | 0.00202 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:10 | 1 |
| **Xylenes, Total** | **0.0262** | | 0.00404 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *166* | *S1+* | *70 - 130* | *04/25/24 14:09* | *04/26/24 04:10* | *1* |
| *1,4-Difluorobenzene (Surr)* | *112* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 04:10* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0286** | | 0.00404 | | mg/Kg | | | 04/26/24 04:10 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **1620** | | 49.5 | | mg/Kg | | | 04/24/24 14:41 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.5 | U | 49.5 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 14:41 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **1620** | | 49.5 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 14:41 | 1 |
| Oil Range Organics (Over C28-C36) | <49.5 | U | 49.5 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 14:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *112* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 14:41* | *1* |
| *o-Terphenyl (Surr)* | *146* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/24/24 14:41* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **17100** | | 251 | | mg/Kg | | | 04/25/24 20:24 | 50 |

## Client Sample ID: S- 18, 0'
**Lab Sample ID: 880-42576-18**
**Date Collected: 04/19/24 11:30** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **0.0108** | | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:30 | 1 |
| **Toluene** | **0.00200** | | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:30 | 1 |
| **Ethylbenzene** | **0.0824** | | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:30 | 1 |
| **m,p-Xylenes** | **0.0278** | | 0.00400 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:30 | 1 |
| **o-Xylene** | **0.0121** | | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:30 | 1 |
| **Xylenes, Total** | **0.0399** | | 0.00400 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *646* | *S1+* | *70 - 130* | *04/25/24 14:09* | *04/26/24 04:30* | *1* |
| *1,4-Difluorobenzene (Surr)* | *127* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 04:30* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 18, 0'
**Lab Sample ID: 880-42576-18**
**Date Collected: 04/19/24 11:30** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.135** | | 0.00400 | | mg/Kg | | | 04/26/24 04:30 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **6480** | | 50.0 | | mg/Kg | | | 04/24/24 14:55 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO)-C6-C10** | **276** | | 50.0 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 14:55 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **6200** | | 50.0 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 14:55 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 14:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *116* | | *70 - 130* | *04/23/24 10:24* | *04/24/24 14:55* | *1* |
| *o-Terphenyl (Surr)* | *286* | *S1+* | *70 - 130* | *04/23/24 10:24* | *04/24/24 14:55* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **18700** | | 252 | | mg/Kg | | | 04/25/24 20:43 | 50 |

## Client Sample ID: S- 19, 0'
**Lab Sample ID: 880-42576-19**
**Date Collected: 04/19/24 11:35** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:50 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:50 | 1 |
| **Ethylbenzene** | **0.0379** | | 0.00198 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:50 | 1 |
| **m,p-Xylenes** | **0.0264** | | 0.00396 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:50 | 1 |
| **o-Xylene** | **0.0494** | | 0.00198 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:50 | 1 |
| **Xylenes, Total** | **0.0758** | | 0.00396 | | mg/Kg | | 04/25/24 14:09 | 04/26/24 04:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *235* | *S1+* | *70 - 130* | *04/25/24 14:09* | *04/26/24 04:50* | *1* |
| *1,4-Difluorobenzene (Surr)* | *120* | | *70 - 130* | *04/25/24 14:09* | *04/26/24 04:50* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.114** | | 0.00396 | | mg/Kg | | | 04/26/24 04:50 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **5220** | | 249 | | mg/Kg | | | 04/24/24 01:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <249 | U | 249 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 01:33 | 5 |
| **Diesel Range Organics (Over C10-C28)** | **5220** | | 249 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 01:33 | 5 |

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# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 19, 0'
**Lab Sample ID: 880-42576-19**
**Date Collected: 04/19/24 11:35** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <249 | U | 249 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 01:33 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *132* | *S1+* | *70 - 130* | *04/23/24 10:06* | *04/24/24 01:33* | *5* |
| *o-Terphenyl (Surr)* | *122* | | *70 - 130* | *04/23/24 10:06* | *04/24/24 01:33* | *5* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **25800** | | 252 | | mg/Kg | | | 04/25/24 20:49 | 50 |

## Client Sample ID: S- 20, 0'
**Lab Sample ID: 880-42576-20**
**Date Collected: 04/19/24 11:40** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### 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 | | 04/25/24 14:09 | 04/25/24 23:54 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/25/24 23:54 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/25/24 23:54 | 1 |
| **m,p-Xylenes** | **0.0205** | | 0.00399 | | mg/Kg | | 04/25/24 14:09 | 04/25/24 23:54 | 1 |
| **o-Xylene** | **0.0143** | | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/25/24 23:54 | 1 |
| **Xylenes, Total** | **0.0348** | | 0.00399 | | mg/Kg | | 04/25/24 14:09 | 04/25/24 23:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *171* | *S1+* | *70 - 130* | *04/25/24 14:09* | *04/25/24 23:54* | *1* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* | *04/25/24 14:09* | *04/25/24 23:54* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0348** | | 0.00399 | | mg/Kg | | | 04/25/24 23:54 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **7280** | | 249 | | mg/Kg | | | 04/24/24 01:54 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <249 | U | 249 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 01:54 | 5 |
| **Diesel Range Organics (Over C10-C28)** | **7280** | | 249 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 01:54 | 5 |
| Oil Range Organics (Over C28-C36) | <249 | U | 249 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 01:54 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *126* | | *70 - 130* | *04/23/24 10:06* | *04/24/24 01:54* | *5* |
| *o-Terphenyl (Surr)* | *123* | | *70 - 130* | *04/23/24 10:06* | *04/24/24 01:54* | *5* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **23000** | | 253 | | mg/Kg | | | 04/25/24 20:56 | 50 |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 21, 0'
**Lab Sample ID: 880-42576-21**
**Date Collected: 04/19/24 11:45** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0402 | U | 0.0402 | | mg/Kg | | 04/29/24 16:18 | 04/30/24 06:46 | 20 |
| Toluene | <0.0402 | U | 0.0402 | | mg/Kg | | 04/29/24 16:18 | 04/30/24 06:46 | 20 |
| Ethylbenzene | <0.0402 | U | 0.0402 | | mg/Kg | | 04/29/24 16:18 | 04/30/24 06:46 | 20 |
| m,p-Xylenes | <0.0805 | U | 0.0805 | | mg/Kg | | 04/29/24 16:18 | 04/30/24 06:46 | 20 |
| o-Xylene | <0.0402 | U | 0.0402 | | mg/Kg | | 04/29/24 16:18 | 04/30/24 06:46 | 20 |
| Xylenes, Total | <0.0805 | U | 0.0805 | | mg/Kg | | 04/29/24 16:18 | 04/30/24 06:46 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 130* | *04/29/24 16:18* | *04/30/24 06:46* | *20* |
| *1,4-Difluorobenzene (Surr)* | *89* | | *70 - 130* | *04/29/24 16:18* | *04/30/24 06:46* | *20* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.0805 | U | 0.0805 | | mg/Kg | | | 04/30/24 06:46 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **1200** | | 49.7 | | mg/Kg | | | 04/24/24 02:15 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 49.7 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 02:15 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **1200** | | 49.7 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 02:15 | 1 |
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 02:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *146* | *S1+* | *70 - 130* | *04/23/24 10:06* | *04/24/24 02:15* | *1* |
| *o-Terphenyl (Surr)* | *119* | | *70 - 130* | *04/23/24 10:06* | *04/24/24 02:15* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **7050** | | 100 | | mg/Kg | | | 04/25/24 21:02 | 20 |

## Client Sample ID: S- 22, 0'
**Lab Sample ID: 880-42576-22**
**Date Collected: 04/19/24 11:50** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U *- *1 | 0.00198 | | mg/Kg | | 04/25/24 08:32 | 04/25/24 18:37 | 1 |
| Toluene | <0.00198 | U *- *1 | 0.00198 | | mg/Kg | | 04/25/24 08:32 | 04/25/24 18:37 | 1 |
| Ethylbenzene | <0.00198 | U *- *1 | 0.00198 | | mg/Kg | | 04/25/24 08:32 | 04/25/24 18:37 | 1 |
| m,p-Xylenes | <0.00397 | U *- *1 | 0.00397 | | mg/Kg | | 04/25/24 08:32 | 04/25/24 18:37 | 1 |
| o-Xylene | <0.00198 | U *- *1 | 0.00198 | | mg/Kg | | 04/25/24 08:32 | 04/25/24 18:37 | 1 |
| Xylenes, Total | <0.00397 | U *- *1 | 0.00397 | | mg/Kg | | 04/25/24 08:32 | 04/25/24 18:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *116* | | *70 - 130* | *04/25/24 08:32* | *04/25/24 18:37* | *1* |
| *1,4-Difluorobenzene (Surr)* | *92* | | *70 - 130* | *04/25/24 08:32* | *04/25/24 18:37* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 22, 0'
**Lab Sample ID: 880-42576-22**
**Date Collected: 04/19/24 11:50** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00397 | U | 0.00397 | | mg/Kg | | | 04/25/24 18:37 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **372** | | 50.0 | | mg/Kg | | | 04/24/24 02:37 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 02:37 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **372** | | 50.0 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 02:37 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 02:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *149* | *S1+* | *70 - 130* | *04/23/24 10:06* | *04/24/24 02:37* | *1* |
| *o-Terphenyl (Surr)* | *130* | | *70 - 130* | *04/23/24 10:06* | *04/24/24 02:37* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **24000** | | 252 | | mg/Kg | | | 04/25/24 21:21 | 50 |

## Client Sample ID: S- 23, 0'
**Lab Sample ID: 880-42576-23**
**Date Collected: 04/19/24 11:55** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 04/24/24 17:00 | 04/27/24 06:33 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 04/24/24 17:00 | 04/27/24 06:33 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 04/24/24 17:00 | 04/27/24 06:33 | 1 |
| m,p-Xylenes | <0.00396 | U | 0.00396 | | mg/Kg | | 04/24/24 17:00 | 04/27/24 06:33 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 04/24/24 17:00 | 04/27/24 06:33 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | | mg/Kg | | 04/24/24 17:00 | 04/27/24 06:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *107* | | *70 - 130* | *04/24/24 17:00* | *04/27/24 06:33* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *04/24/24 17:00* | *04/27/24 06:33* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00396 | U | 0.00396 | | mg/Kg | | | 04/27/24 06:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **107** | | 50.0 | | mg/Kg | | | 04/24/24 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 | <50.0 | U | 50.0 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 02:58 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **107** | | 50.0 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 02:58 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 23, 0'
**Lab Sample ID: 880-42576-23**
**Date Collected: 04/19/24 11:55** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 02:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *124* | | *70 - 130* | *04/23/24 10:06* | *04/24/24 02:58* | *1* |
| *o-Terphenyl (Surr)* | *110* | | *70 - 130* | *04/23/24 10:06* | *04/24/24 02:58* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **54700** | | 249 | | mg/Kg | | | 04/25/24 21:27 | 50 |

## Client Sample ID: S- 24, 0'
**Lab Sample ID: 880-42576-24**
**Date Collected: 04/19/24 12:00** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

### 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 | | 04/24/24 17:00 | 04/27/24 06:53 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 04/24/24 17:00 | 04/27/24 06:53 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 04/24/24 17:00 | 04/27/24 06:53 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 04/24/24 17:00 | 04/27/24 06:53 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 04/24/24 17:00 | 04/27/24 06:53 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 04/24/24 17:00 | 04/27/24 06:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *04/24/24 17:00* | *04/27/24 06:53* | *1* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* | *04/24/24 17:00* | *04/27/24 06:53* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 04/27/24 06:53 | 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 | | | 04/24/24 03:19 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 03:19 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 03:19 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 04/23/24 10:06 | 04/24/24 03:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *125* | | *70 - 130* | *04/23/24 10:06* | *04/24/24 03:19* | *1* |
| *o-Terphenyl (Surr)* | *109* | | *70 - 130* | *04/23/24 10:06* | *04/24/24 03:19* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **20300** | | 250 | | mg/Kg | | | 04/25/24 21:33 | 50 |

# Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | BFB1 | DFBZ1 | | | | | | | | | | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | | | | | | | | | | |
| 880-42576-1 | S- 1, 0' | 114 | 91 | | | | | | | | | | |
| 880-42576-1 MS | S- 1, 0' | 109 | 93 | | | | | | | | | | |
| 880-42576-1 MSD | S- 1, 0' | 107 | 96 | | | | | | | | | | |
| 880-42576-2 | S- 2, 0' | 113 | 90 | | | | | | | | | | |
| 880-42576-3 | S- 3, 0' | 112 | 90 | | | | | | | | | | |
| 880-42576-4 | S- 4, 0' | 97 | 82 | | | | | | | | | | |
| 880-42576-5 | S- 5, 0' | 111 | 88 | | | | | | | | | | |
| 880-42576-6 | S- 6, 0' | 114 | 86 | | | | | | | | | | |
| 880-42576-7 | S- 7, 0' | 113 | 90 | | | | | | | | | | |
| 880-42576-8 | S- 8, 0' | 114 | 91 | | | | | | | | | | |
| 880-42576-9 | S- 9, 0' | 99 | 88 | | | | | | | | | | |
| 880-42576-10 | S- 10, 0' | 123 | 90 | | | | | | | | | | |
| 880-42576-11 | S- 11, 0' | 108 | 89 | | | | | | | | | | |
| 880-42576-12 | S- 12, 0' | 105 | 82 | | | | | | | | | | |
| 880-42576-13 | S- 13, 0' | 101 | 85 | | | | | | | | | | |
| 880-42576-14 | S- 14, 0' | 144 S1+ | 103 | | | | | | | | | | |
| 880-42576-15 | S- 15, 0' | 148 S1+ | 110 | | | | | | | | | | |
| 880-42576-16 | S- 16, 0' | 140 S1+ | 104 | | | | | | | | | | |
| 880-42576-17 | S- 17, 0' | 166 S1+ | 112 | | | | | | | | | | |
| 880-42576-18 | S- 18, 0' | 646 S1+ | 127 | | | | | | | | | | |
| 880-42576-19 | S- 19, 0' | 235 S1+ | 120 | | | | | | | | | | |
| 880-42576-20 | S- 20, 0' | 171 S1+ | 111 | | | | | | | | | | |
| 880-42576-21 | S- 21, 0' | 97 | 89 | | | | | | | | | | |
| 880-42576-22 | S- 22, 0' | 116 | 92 | | | | | | | | | | |
| 880-42576-23 | S- 23, 0' | 107 | 93 | | | | | | | | | | |
| 880-42576-24 | S- 24, 0' | 115 | 96 | | | | | | | | | | |
| LCS 880-79049/1-A | Lab Control Sample | 112 | 102 | | | | | | | | | | |
| LCS 880-79119/1-A | Lab Control Sample | 120 | 96 | | | | | | | | | | |
| LCS 880-79283/1-A | Lab Control Sample | 109 | 89 | | | | | | | | | | |
| LCS 880-79289/1-A | Lab Control Sample | 106 | 95 | | | | | | | | | | |
| LCS 880-79323/1-A | Lab Control Sample | 108 | 99 | | | | | | | | | | |
| LCS 880-79568/1-A | Lab Control Sample | 109 | 100 | | | | | | | | | | |
| LCSD 880-79049/2-A | Lab Control Sample Dup | 111 | 100 | | | | | | | | | | |
| LCSD 880-79119/2-A | Lab Control Sample Dup | 104 | 102 | | | | | | | | | | |
| LCSD 880-79283/2-A | Lab Control Sample Dup | 112 | 101 | | | | | | | | | | |
| LCSD 880-79289/2-A | Lab Control Sample Dup | 105 | 93 | | | | | | | | | | |
| LCSD 880-79323/2-A | Lab Control Sample Dup | 111 | 100 | | | | | | | | | | |
| LCSD 880-79568/2-A | Lab Control Sample Dup | 109 | 101 | | | | | | | | | | |
| MB 880-79049/5-A | Method Blank | 112 | 86 | | | | | | | | | | |
| MB 880-79054/5-A | Method Blank | 175 S1+ | 128 | | | | | | | | | | |
| MB 880-79119/5-A | Method Blank | 175 S1+ | 125 | | | | | | | | | | |
| MB 880-79283/5-A | Method Blank | 113 | 88 | | | | | | | | | | |
| MB 880-79289/5-A | Method Blank | 159 S1+ | 108 | | | | | | | | | | |
| MB 880-79323/5-A | Method Blank | 112 | 89 | | | | | | | | | | |
| MB 880-79497/5-A | Method Blank | 173 S1+ | 92 | | | | | | | | | | |
| MB 880-79568/5-A | Method Blank | 112 | 89 | | | | | | | | | | |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Midland

# Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1CO1 | OTPH1 | | | | | | | | | | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | | | | | | | | | | |
| 880-42576-1 | S- 1, 0' | 158 S1+ | 139 S1+ | | | | | | | | | | |
| 880-42576-2 | S- 2, 0' | 100 | 99 | | | | | | | | | | |
| 880-42576-3 | S- 3, 0' | 105 | 133 S1+ | | | | | | | | | | |
| 880-42576-4 | S- 4, 0' | 100 | 366 S1+ | | | | | | | | | | |
| 880-42576-5 | S- 5, 0' | 119 | 140 S1+ | | | | | | | | | | |
| 880-42576-6 | S- 6, 0' | 115 | 168 S1+ | | | | | | | | | | |
| 880-42576-7 | S- 7, 0' | 119 | 114 | | | | | | | | | | |
| 880-42576-8 | S- 8, 0' | 108 | 112 | | | | | | | | | | |
| 880-42576-9 | S- 9, 0' | 107 | 206 S1+ | | | | | | | | | | |
| 880-42576-10 | S- 10, 0' | 114 | 134 S1+ | | | | | | | | | | |
| 880-42576-11 | S- 11, 0' | 106 | 164 S1+ | | | | | | | | | | |
| 880-42576-12 | S- 12, 0' | 130 | 167 S1+ | | | | | | | | | | |
| 880-42576-13 | S- 13, 0' | 111 | 120 | | | | | | | | | | |
| 880-42576-14 | S- 14, 0' | 113 | 255 S1+ | | | | | | | | | | |
| 880-42576-15 | S- 15, 0' | 127 | 151 S1+ | | | | | | | | | | |
| 880-42576-16 | S- 16, 0' | 117 | 122 | | | | | | | | | | |
| 880-42576-17 | S- 17, 0' | 112 | 146 S1+ | | | | | | | | | | |
| 880-42576-18 | S- 18, 0' | 116 | 286 S1+ | | | | | | | | | | |
| 880-42576-19 | S- 19, 0' | 132 S1+ | 122 | | | | | | | | | | |
| 880-42576-20 | S- 20, 0' | 126 | 123 | | | | | | | | | | |
| 880-42576-21 | S- 21, 0' | 146 S1+ | 119 | | | | | | | | | | |
| 880-42576-22 | S- 22, 0' | 149 S1+ | 130 | | | | | | | | | | |
| 880-42576-23 | S- 23, 0' | 124 | 110 | | | | | | | | | | |
| 880-42576-24 | S- 24, 0' | 125 | 109 | | | | | | | | | | |
| LCS 880-79037/2-A | Lab Control Sample | 105 | 108 | | | | | | | | | | |
| LCS 880-79041/2-A | Lab Control Sample | 101 | 86 | | | | | | | | | | |
| LCSD 880-79037/3-A | Lab Control Sample Dup | 85 | 91 | | | | | | | | | | |
| LCSD 880-79041/3-A | Lab Control Sample Dup | 102 | 86 | | | | | | | | | | |
| MB 880-79037/1-A | Method Blank | 132 S1+ | 117 | | | | | | | | | | |
| MB 880-79041/1-A | Method Blank | 90 | 92 | | | | | | | | | | |

**Surrogate Legend**

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

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: MB 880-79049/5-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 79381** — **Prep Batch: 79049**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 11:24 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 11:24 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 11:24 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 11:24 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 11:24 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 04/23/24 10:45 | 04/26/24 11:24 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 11:24* | *1* |
| *1,4-Difluorobenzene (Surr)* | *86* | | *70 - 130* | *04/23/24 10:45* | *04/26/24 11:24* | *1* |

**Lab Sample ID: LCS 880-79049/1-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 79381** — **Prep Batch: 79049**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1079 | | mg/Kg | | 108 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.1021 | | mg/Kg | | 102 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1034 | | mg/Kg | | 103 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.2090 | | mg/Kg | | 104 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.1058 | | mg/Kg | | 106 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* |

**Lab Sample ID: LCSD 880-79049/2-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 79381** — **Prep Batch: 79049**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1054 | | mg/Kg | | 105 | 70 - 130 | 2 | 35 |
| Toluene | | | 0.100 | 0.1000 | | mg/Kg | | 100 | 70 - 130 | 2 | 35 |
| Ethylbenzene | | | 0.100 | 0.1012 | | mg/Kg | | 101 | 70 - 130 | 2 | 35 |
| m,p-Xylenes | | | 0.200 | 0.2049 | | mg/Kg | | 102 | 70 - 130 | 2 | 35 |
| o-Xylene | | | 0.100 | 0.1035 | | mg/Kg | | 103 | 70 - 130 | 2 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* |

**Lab Sample ID: 880-42576-1 MS** — **Client Sample ID: S- 1, 0'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 79381** — **Prep Batch: 79049**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U F1 | 0.100 | 0.04384 | F1 | mg/Kg | | 44 | 70 - 130 | | |
| Toluene | <0.00199 | U F2 F1 | 0.100 | 0.02126 | F1 | mg/Kg | | 21 | 70 - 130 | | |

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: 880-42576-1 MS** — **Client Sample ID: S- 1, 0'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 79381** — **Prep Batch: 79049**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00199 | U F2 F1 | 0.100 | 0.01074 | F1 | mg/Kg | | 11 | 70 - 130 |
| m,p-Xylenes | <0.00398 | U F2 F1 | 0.200 | 0.02064 | F1 | mg/Kg | | 10 | 70 - 130 |
| o-Xylene | <0.00199 | U F2 F1 | 0.100 | 0.01016 | F1 | mg/Kg | | 10 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* |

**Lab Sample ID: 880-42576-1 MSD** — **Client Sample ID: S- 1, 0'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 79381** — **Prep Batch: 79049**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U F1 | 0.100 | 0.06210 | F1 | mg/Kg | | 62 | 70 - 130 | 34 | 35 |
| Toluene | <0.00199 | U F2 F1 | 0.100 | 0.03407 | F2 F1 | mg/Kg | | 34 | 70 - 130 | 46 | 35 |
| Ethylbenzene | <0.00199 | U F2 F1 | 0.100 | 0.01750 | F2 F1 | mg/Kg | | 17 | 70 - 130 | 48 | 35 |
| m,p-Xylenes | <0.00398 | U F2 F1 | 0.200 | 0.03384 | F2 F1 | mg/Kg | | 17 | 70 - 130 | 48 | 35 |
| o-Xylene | <0.00199 | U F2 F1 | 0.100 | 0.01636 | F2 F1 | mg/Kg | | 16 | 70 - 130 | 47 | 35 |

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

**Lab Sample ID: MB 880-79054/5-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 79383** — **Prep Batch: 79054**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/23/24 11:01 | 04/26/24 12:14 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 04/23/24 11:01 | 04/26/24 12:14 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/23/24 11:01 | 04/26/24 12:14 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | mg/Kg | | 04/23/24 11:01 | 04/26/24 12:14 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 04/23/24 11:01 | 04/26/24 12:14 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 04/23/24 11:01 | 04/26/24 12:14 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *175* | *S1+* | *70 - 130* | *04/23/24 11:01* | *04/26/24 12:14* | *1* |
| *1,4-Difluorobenzene (Surr)* | *128* | | *70 - 130* | *04/23/24 11:01* | *04/26/24 12:14* | *1* |

**Lab Sample ID: MB 880-79119/5-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 79383** — **Prep Batch: 79119**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/23/24 13:24 | 04/26/24 23:49 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 04/23/24 13:24 | 04/26/24 23:49 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/23/24 13:24 | 04/26/24 23:49 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | mg/Kg | | 04/23/24 13:24 | 04/26/24 23:49 | 1 |

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: MB 880-79119/5-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79383** **Prep Batch: 79119**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/23/24 13:24 | 04/26/24 23:49 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 04/23/24 13:24 | 04/26/24 23:49 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *175* | *S1+* | *70 - 130* | *04/23/24 13:24* | *04/26/24 23:49* | *1* |
| *1,4-Difluorobenzene (Surr)* | *125* | | *70 - 130* | *04/23/24 13:24* | *04/26/24 23:49* | *1* |

**Lab Sample ID: LCS 880-79119/1-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79383** **Prep Batch: 79119**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09938 | | mg/Kg | | 99 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09984 | | mg/Kg | | 100 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1139 | | mg/Kg | | 114 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.2370 | | mg/Kg | | 119 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.1173 | | mg/Kg | | 117 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *120* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* |

**Lab Sample ID: LCSD 880-79119/2-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79383** **Prep Batch: 79119**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1014 | | mg/Kg | | 101 | 70 - 130 | 2 | 35 |
| Toluene | | | 0.100 | 0.09520 | | mg/Kg | | 95 | 70 - 130 | 5 | 35 |
| Ethylbenzene | | | 0.100 | 0.09833 | | mg/Kg | | 98 | 70 - 130 | 15 | 35 |
| m,p-Xylenes | | | 0.200 | 0.2316 | | mg/Kg | | 116 | 70 - 130 | 2 | 35 |
| o-Xylene | | | 0.100 | 0.1028 | | mg/Kg | | 103 | 70 - 130 | 13 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* |

**Lab Sample ID: MB 880-79283/5-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79277** **Prep Batch: 79283**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/25/24 08:32 | 04/25/24 11:14 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/25/24 08:32 | 04/25/24 11:14 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/25/24 08:32 | 04/25/24 11:14 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 04/25/24 08:32 | 04/25/24 11:14 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/25/24 08:32 | 04/25/24 11:14 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 04/25/24 08:32 | 04/25/24 11:14 | 1 |

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 113 | | 70 - 130 | 04/25/24 08:32 | 04/25/24 11:14 | 1 |
| 1,4-Difluorobenzene (Surr) | 88 | | 70 - 130 | 04/25/24 08:32 | 04/25/24 11:14 | 1 |

**Lab Sample ID: LCS 880-79283/1-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79277** **Prep Batch: 79283**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.05239 | *- | mg/Kg | | 52 | 70 - 130 |
| Toluene | 0.100 | 0.02566 | *- | mg/Kg | | 26 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.01024 | *- | mg/Kg | | 10 | 70 - 130 |
| m,p-Xylenes | 0.200 | 0.01678 | *- | mg/Kg | | 8 | 70 - 130 |
| o-Xylene | 0.100 | 0.01041 | *- | mg/Kg | | 10 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 |

**Lab Sample ID: LCSD 880-79283/2-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79277** **Prep Batch: 79283**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.1092 | *1 | mg/Kg | | 109 | 70 - 130 | 70 | 35 |
| Toluene | 0.100 | 0.1040 | *1 | mg/Kg | | 104 | 70 - 130 | 121 | 35 |
| Ethylbenzene | 0.100 | 0.1018 | *1 | mg/Kg | | 102 | 70 - 130 | 163 | 35 |
| m,p-Xylenes | 0.200 | 0.2029 | *1 | mg/Kg | | 101 | 70 - 130 | 169 | 35 |
| o-Xylene | 0.100 | 0.1034 | *1 | mg/Kg | | 103 | 70 - 130 | 163 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 |

**Lab Sample ID: MB 880-79289/5-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79383** **Prep Batch: 79289**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/25/24 09:04 | 04/27/24 11:24 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 04/25/24 09:04 | 04/27/24 11:24 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/25/24 09:04 | 04/27/24 11:24 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | mg/Kg | | 04/25/24 09:04 | 04/27/24 11:24 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 04/25/24 09:04 | 04/27/24 11:24 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 04/25/24 09:04 | 04/27/24 11:24 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 159 | S1+ | 70 - 130 | 04/25/24 09:04 | 04/27/24 11:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 | 04/25/24 09:04 | 04/27/24 11:24 | 1 |

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: LCS 880-79289/1-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79383** **Prep Batch: 79289**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09419 | | mg/Kg | | 94 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.08977 | | mg/Kg | | 90 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.09065 | | mg/Kg | | 91 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.1915 | | mg/Kg | | 96 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.08963 | | mg/Kg | | 90 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *95* | | *70 - 130* |

**Lab Sample ID: LCSD 880-79289/2-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79383** **Prep Batch: 79289**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1001 | | mg/Kg | | 100 | 70 - 130 | 6 | 35 |
| Toluene | | | 0.100 | 0.09551 | | mg/Kg | | 96 | 70 - 130 | 6 | 35 |
| Ethylbenzene | | | 0.100 | 0.1091 | | mg/Kg | | 109 | 70 - 130 | 19 | 35 |
| m,p-Xylenes | | | 0.200 | 0.2268 | | mg/Kg | | 113 | 70 - 130 | 17 | 35 |
| o-Xylene | | | 0.100 | 0.09784 | | mg/Kg | | 98 | 70 - 130 | 9 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* |

**Lab Sample ID: MB 880-79323/5-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79277** **Prep Batch: 79323**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/25/24 22:31 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/25/24 22:31 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/25/24 22:31 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 04/25/24 14:09 | 04/25/24 22:31 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/25/24 14:09 | 04/25/24 22:31 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 04/25/24 14:09 | 04/25/24 22:31 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *04/25/24 14:09* | *04/25/24 22:31* | *1* |
| *1,4-Difluorobenzene (Surr)* | *89* | | *70 - 130* | *04/25/24 14:09* | *04/25/24 22:31* | *1* |

**Lab Sample ID: LCS 880-79323/1-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79277** **Prep Batch: 79323**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1110 | | mg/Kg | | 111 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.1045 | | mg/Kg | | 105 | 70 - 130 | | |

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: LCS 880-79323/1-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79277** **Prep Batch: 79323**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | | | 0.100 | 0.1015 | | mg/Kg | | 102 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.2003 | | mg/Kg | | 100 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.1014 | | mg/Kg | | 101 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* |

**Lab Sample ID: LCSD 880-79323/2-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79277** **Prep Batch: 79323**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1041 | | mg/Kg | | 104 | 70 - 130 | 6 | 35 |
| Toluene | | | 0.100 | 0.09892 | | mg/Kg | | 99 | 70 - 130 | 5 | 35 |
| Ethylbenzene | | | 0.100 | 0.09582 | | mg/Kg | | 96 | 70 - 130 | 6 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1901 | | mg/Kg | | 95 | 70 - 130 | 5 | 35 |
| o-Xylene | | | 0.100 | 0.09824 | | mg/Kg | | 98 | 70 - 130 | 3 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* |

**Lab Sample ID: MB 880-79497/5-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79488** **Prep Batch: 79497**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/29/24 09:51 | 04/29/24 11:49 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/29/24 09:51 | 04/29/24 11:49 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/29/24 09:51 | 04/29/24 11:49 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 04/29/24 09:51 | 04/29/24 11:49 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/29/24 09:51 | 04/29/24 11:49 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 04/29/24 09:51 | 04/29/24 11:49 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *173* | *S1+* | *70 - 130* | *04/29/24 09:51* | *04/29/24 11:49* | *1* |
| *1,4-Difluorobenzene (Surr)* | *92* | | *70 - 130* | *04/29/24 09:51* | *04/29/24 11:49* | *1* |

**Lab Sample ID: MB 880-79568/5-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79488** **Prep Batch: 79568**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/29/24 16:18 | 04/29/24 22:44 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/29/24 16:18 | 04/29/24 22:44 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/29/24 16:18 | 04/29/24 22:44 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 04/29/24 16:18 | 04/29/24 22:44 | 1 |

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: MB 880-79568/5-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79488** **Prep Batch: 79568**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/29/24 16:18 | 04/29/24 22:44 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 04/29/24 16:18 | 04/29/24 22:44 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *04/29/24 16:18* | *04/29/24 22:44* | *1* |
| *1,4-Difluorobenzene (Surr)* | *89* | | *70 - 130* | *04/29/24 16:18* | *04/29/24 22:44* | *1* |

**Lab Sample ID: LCS 880-79568/1-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79488** **Prep Batch: 79568**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1165 | | mg/Kg | | 117 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.1103 | | mg/Kg | | 110 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1070 | | mg/Kg | | 107 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.2183 | | mg/Kg | | 109 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.1094 | | mg/Kg | | 109 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* |

**Lab Sample ID: LCSD 880-79568/2-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79488** **Prep Batch: 79568**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1138 | | mg/Kg | | 114 | 70 - 130 | 2 | 35 |
| Toluene | | | 0.100 | 0.1076 | | mg/Kg | | 108 | 70 - 130 | 2 | 35 |
| Ethylbenzene | | | 0.100 | 0.1072 | | mg/Kg | | 107 | 70 - 130 | 0 | 35 |
| m,p-Xylenes | | | 0.200 | 0.2173 | | mg/Kg | | 109 | 70 - 130 | 0 | 35 |
| o-Xylene | | | 0.100 | 0.1086 | | mg/Kg | | 109 | 70 - 130 | 1 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* |

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

**Lab Sample ID: MB 880-79037/1-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79001** **Prep Batch: 79037**

| 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 | | 04/23/24 10:06 | 04/23/24 18:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 04/23/24 10:06 | 04/23/24 18:58 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 04/23/24 10:06 | 04/23/24 18:58 | 1 |

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane (Surr) | 132 | S1+ | 70 - 130 | 04/23/24 10:06 | 04/23/24 18:58 | 1 |
| o-Terphenyl (Surr) | 117 | | 70 - 130 | 04/23/24 10:06 | 04/23/24 18:58 | 1 |

**Lab Sample ID: LCS 880-79037/2-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79001** **Prep Batch: 79037**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1064 | | mg/Kg | | 106 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 966.0 | | mg/Kg | | 97 | 70 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 105 | | 70 - 130 |
| o-Terphenyl (Surr) | 108 | | 70 - 130 |

**Lab Sample ID: LCSD 880-79037/3-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79001** **Prep Batch: 79037**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1026 | | mg/Kg | | 103 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 942.0 | | mg/Kg | | 94 | 70 - 130 | 3 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 85 | | 70 - 130 |
| o-Terphenyl (Surr) | 91 | | 70 - 130 |

**Lab Sample ID: MB 880-79041/1-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79219** **Prep Batch: 79041**

| 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 | | 04/23/24 10:24 | 04/24/24 10:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 10:37 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 04/23/24 10:24 | 04/24/24 10:37 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane (Surr) | 90 | | 70 - 130 | 04/23/24 10:24 | 04/24/24 10:37 | 1 |
| o-Terphenyl (Surr) | 92 | | 70 - 130 | 04/23/24 10:24 | 04/24/24 10:37 | 1 |

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: LCS 880-79041/2-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79219** **Prep Batch: 79041**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 881.5 | | mg/Kg | | 88 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 769.3 | | mg/Kg | | 77 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *101* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* |

**Lab Sample ID: LCSD 880-79041/3-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 79219** **Prep Batch: 79041**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 891.9 | | mg/Kg | | 89 | 70 - 130 | 1 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 786.3 | | mg/Kg | | 79 | 70 - 130 | 2 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *102* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-79222/1-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Soluble**
**Analysis Batch: 79306**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 04/25/24 23:46 | 1 |

**Lab Sample ID: LCS 880-79222/2-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Soluble**
**Analysis Batch: 79306**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 239.3 | | mg/Kg | | 96 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-79222/3-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Soluble**
**Analysis Batch: 79306**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 240.1 | | mg/Kg | | 96 | 90 - 110 | 0 | 20 |

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: 880-42576-7 MS** — **Client Sample ID: S- 7, 0'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 79306**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 800 | | 1260 | 2020 | | mg/Kg | | 97 | 90 - 110 |

**Lab Sample ID: 880-42576-7 MSD** — **Client Sample ID: S- 7, 0'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 79306**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 800 | | 1260 | 2018 | | mg/Kg | | 97 | 90 - 110 | 0 | 20 |

**Lab Sample ID: MB 880-79223/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 79321**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 04/25/24 20:05 | 1 |

**Lab Sample ID: LCS 880-79223/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 79321**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 231.7 | | mg/Kg | | 93 | 90 - 110 |

**Lab Sample ID: LCSD 880-79223/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 79321**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 233.5 | | mg/Kg | | 93 | 90 - 110 | 1 | 20 |

**Lab Sample ID: 880-42576-17 MS** — **Client Sample ID: S- 17, 0'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 79321**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 17100 | | 12600 | 28660 | | mg/Kg | | 92 | 90 - 110 |

**Lab Sample ID: 880-42576-17 MSD** — **Client Sample ID: S- 17, 0'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 79321**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 17100 | | 12600 | 28470 | | mg/Kg | | 91 | 90 - 110 | 1 | 20 |

# QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## GC VOA

### Prep Batch: 79049

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-1 | S- 1, 0' | Total/NA | Solid | 5035 | |
| 880-42576-2 | S- 2, 0' | Total/NA | Solid | 5035 | |
| 880-42576-3 | S- 3, 0' | Total/NA | Solid | 5035 | |
| 880-42576-7 | S- 7, 0' | Total/NA | Solid | 5035 | |
| 880-42576-8 | S- 8, 0' | Total/NA | Solid | 5035 | |
| 880-42576-9 | S- 9, 0' | Total/NA | Solid | 5035 | |
| 880-42576-10 | S- 10, 0' | Total/NA | Solid | 5035 | |
| 880-42576-11 | S- 11, 0' | Total/NA | Solid | 5035 | |
| 880-42576-14 | S- 14, 0' | Total/NA | Solid | 5035 | |
| 880-42576-15 | S- 15, 0' | Total/NA | Solid | 5035 | |
| MB 880-79049/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-79049/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-79049/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-42576-1 MS | S- 1, 0' | Total/NA | Solid | 5035 | |
| 880-42576-1 MSD | S- 1, 0' | Total/NA | Solid | 5035 | |

### Prep Batch: 79054

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-79054/5-A | Method Blank | Total/NA | Solid | 5035 | |

### Prep Batch: 79119

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-23 | S- 23, 0' | Total/NA | Solid | 5035 | |
| 880-42576-24 | S- 24, 0' | Total/NA | Solid | 5035 | |
| MB 880-79119/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-79119/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-79119/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

### Analysis Batch: 79277

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-4 | S- 4, 0' | Total/NA | Solid | 8021B | 79323 |
| 880-42576-5 | S- 5, 0' | Total/NA | Solid | 8021B | 79323 |
| 880-42576-6 | S- 6, 0' | Total/NA | Solid | 8021B | 79323 |
| 880-42576-12 | S- 12, 0' | Total/NA | Solid | 8021B | 79323 |
| 880-42576-13 | S- 13, 0' | Total/NA | Solid | 8021B | 79323 |
| 880-42576-16 | S- 16, 0' | Total/NA | Solid | 8021B | 79323 |
| 880-42576-17 | S- 17, 0' | Total/NA | Solid | 8021B | 79323 |
| 880-42576-18 | S- 18, 0' | Total/NA | Solid | 8021B | 79323 |
| 880-42576-19 | S- 19, 0' | Total/NA | Solid | 8021B | 79323 |
| 880-42576-20 | S- 20, 0' | Total/NA | Solid | 8021B | 79323 |
| 880-42576-22 | S- 22, 0' | Total/NA | Solid | 8021B | 79283 |
| MB 880-79283/5-A | Method Blank | Total/NA | Solid | 8021B | 79283 |
| MB 880-79323/5-A | Method Blank | Total/NA | Solid | 8021B | 79323 |
| LCS 880-79283/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 79283 |
| LCS 880-79323/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 79323 |
| LCSD 880-79283/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 79283 |
| LCSD 880-79323/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 79323 |

### Prep Batch: 79283

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-22 | S- 22, 0' | Total/NA | Solid | 5035 | |

# QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## GC VOA (Continued)

### Prep Batch: 79283 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-79283/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-79283/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-79283/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

### Prep Batch: 79289

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-79289/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-79289/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-79289/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

### Prep Batch: 79323

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-4 | S- 4, 0' | Total/NA | Solid | 5035 | |
| 880-42576-5 | S- 5, 0' | Total/NA | Solid | 5035 | |
| 880-42576-6 | S- 6, 0' | Total/NA | Solid | 5035 | |
| 880-42576-12 | S- 12, 0' | Total/NA | Solid | 5035 | |
| 880-42576-13 | S- 13, 0' | Total/NA | Solid | 5035 | |
| 880-42576-16 | S- 16, 0' | Total/NA | Solid | 5035 | |
| 880-42576-17 | S- 17, 0' | Total/NA | Solid | 5035 | |
| 880-42576-18 | S- 18, 0' | Total/NA | Solid | 5035 | |
| 880-42576-19 | S- 19, 0' | Total/NA | Solid | 5035 | |
| 880-42576-20 | S- 20, 0' | Total/NA | Solid | 5035 | |
| MB 880-79323/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-79323/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-79323/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

### Analysis Batch: 79381

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-1 | S- 1, 0' | Total/NA | Solid | 8021B | 79049 |
| 880-42576-2 | S- 2, 0' | Total/NA | Solid | 8021B | 79049 |
| 880-42576-3 | S- 3, 0' | Total/NA | Solid | 8021B | 79049 |
| 880-42576-7 | S- 7, 0' | Total/NA | Solid | 8021B | 79049 |
| 880-42576-8 | S- 8, 0' | Total/NA | Solid | 8021B | 79049 |
| 880-42576-9 | S- 9, 0' | Total/NA | Solid | 8021B | 79049 |
| 880-42576-10 | S- 10, 0' | Total/NA | Solid | 8021B | 79049 |
| 880-42576-11 | S- 11, 0' | Total/NA | Solid | 8021B | 79049 |
| 880-42576-14 | S- 14, 0' | Total/NA | Solid | 8021B | 79049 |
| 880-42576-15 | S- 15, 0' | Total/NA | Solid | 8021B | 79049 |
| MB 880-79049/5-A | Method Blank | Total/NA | Solid | 8021B | 79049 |
| LCS 880-79049/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 79049 |
| LCSD 880-79049/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 79049 |
| 880-42576-1 MS | S- 1, 0' | Total/NA | Solid | 8021B | 79049 |
| 880-42576-1 MSD | S- 1, 0' | Total/NA | Solid | 8021B | 79049 |

### Analysis Batch: 79383

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-23 | S- 23, 0' | Total/NA | Solid | 8021B | 79119 |
| 880-42576-24 | S- 24, 0' | Total/NA | Solid | 8021B | 79119 |
| MB 880-79054/5-A | Method Blank | Total/NA | Solid | 8021B | 79054 |
| MB 880-79119/5-A | Method Blank | Total/NA | Solid | 8021B | 79119 |
| MB 880-79289/5-A | Method Blank | Total/NA | Solid | 8021B | 79289 |

# QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## GC VOA (Continued)

### Analysis Batch: 79383 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 880-79119/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 79119 |
| LCS 880-79289/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 79289 |
| LCSD 880-79119/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 79119 |
| LCSD 880-79289/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 79289 |

### Analysis Batch: 79432

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-1 | S- 1, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-2 | S- 2, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-3 | S- 3, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-4 | S- 4, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-5 | S- 5, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-6 | S- 6, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-7 | S- 7, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-8 | S- 8, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-9 | S- 9, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-10 | S- 10, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-11 | S- 11, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-12 | S- 12, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-13 | S- 13, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-14 | S- 14, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-15 | S- 15, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-16 | S- 16, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-17 | S- 17, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-18 | S- 18, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-19 | S- 19, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-20 | S- 20, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-21 | S- 21, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-22 | S- 22, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-23 | S- 23, 0' | Total/NA | Solid | Total BTEX | |
| 880-42576-24 | S- 24, 0' | Total/NA | Solid | Total BTEX | |

### Analysis Batch: 79488

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-21 | S- 21, 0' | Total/NA | Solid | 8021B | 79568 |
| MB 880-79497/5-A | Method Blank | Total/NA | Solid | 8021B | 79497 |
| MB 880-79568/5-A | Method Blank | Total/NA | Solid | 8021B | 79568 |
| LCS 880-79568/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 79568 |
| LCSD 880-79568/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 79568 |

### Prep Batch: 79497

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-79497/5-A | Method Blank | Total/NA | Solid | 5035 | |

### Prep Batch: 79568

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-21 | S- 21, 0' | Total/NA | Solid | 5035 | |
| MB 880-79568/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-79568/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-79568/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

# QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## GC Semi VOA

### Analysis Batch: 79001

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-19 | S- 19, 0' | Total/NA | Solid | 8015B NM | 79037 |
| 880-42576-20 | S- 20, 0' | Total/NA | Solid | 8015B NM | 79037 |
| 880-42576-21 | S- 21, 0' | Total/NA | Solid | 8015B NM | 79037 |
| 880-42576-22 | S- 22, 0' | Total/NA | Solid | 8015B NM | 79037 |
| 880-42576-23 | S- 23, 0' | Total/NA | Solid | 8015B NM | 79037 |
| 880-42576-24 | S- 24, 0' | Total/NA | Solid | 8015B NM | 79037 |
| MB 880-79037/1-A | Method Blank | Total/NA | Solid | 8015B NM | 79037 |
| LCS 880-79037/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 79037 |
| LCSD 880-79037/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 79037 |

### Prep Batch: 79037

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-19 | S- 19, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-20 | S- 20, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-21 | S- 21, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-22 | S- 22, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-23 | S- 23, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-24 | S- 24, 0' | Total/NA | Solid | 8015NM Prep | |
| MB 880-79037/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-79037/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-79037/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

### Prep Batch: 79041

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-1 | S- 1, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-2 | S- 2, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-3 | S- 3, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-4 | S- 4, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-5 | S- 5, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-6 | S- 6, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-7 | S- 7, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-8 | S- 8, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-9 | S- 9, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-10 | S- 10, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-11 | S- 11, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-12 | S- 12, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-13 | S- 13, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-14 | S- 14, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-15 | S- 15, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-16 | S- 16, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-17 | S- 17, 0' | Total/NA | Solid | 8015NM Prep | |
| 880-42576-18 | S- 18, 0' | Total/NA | Solid | 8015NM Prep | |
| MB 880-79041/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-79041/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-79041/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 79211

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-1 | S- 1, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-2 | S- 2, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-3 | S- 3, 0' | Total/NA | Solid | 8015 NM | |

# QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## GC Semi VOA (Continued)

### Analysis Batch: 79211 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-4 | S- 4, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-5 | S- 5, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-6 | S- 6, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-7 | S- 7, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-8 | S- 8, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-9 | S- 9, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-10 | S- 10, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-11 | S- 11, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-12 | S- 12, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-13 | S- 13, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-14 | S- 14, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-15 | S- 15, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-16 | S- 16, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-17 | S- 17, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-18 | S- 18, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-19 | S- 19, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-20 | S- 20, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-21 | S- 21, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-22 | S- 22, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-23 | S- 23, 0' | Total/NA | Solid | 8015 NM | |
| 880-42576-24 | S- 24, 0' | Total/NA | Solid | 8015 NM | |

### Analysis Batch: 79219

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-2 | S- 2, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-3 | S- 3, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-4 | S- 4, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-5 | S- 5, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-6 | S- 6, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-7 | S- 7, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-8 | S- 8, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-9 | S- 9, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-10 | S- 10, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-11 | S- 11, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-12 | S- 12, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-13 | S- 13, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-14 | S- 14, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-15 | S- 15, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-16 | S- 16, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-17 | S- 17, 0' | Total/NA | Solid | 8015B NM | 79041 |
| 880-42576-18 | S- 18, 0' | Total/NA | Solid | 8015B NM | 79041 |
| MB 880-79041/1-A | Method Blank | Total/NA | Solid | 8015B NM | 79041 |
| LCS 880-79041/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 79041 |
| LCSD 880-79041/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 79041 |

### Analysis Batch: 79267

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-1 | S- 1, 0' | Total/NA | Solid | 8015B NM | 79041 |

# QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## HPLC/IC

### Leach Batch: 79222

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-1 | S- 1, 0' | Soluble | Solid | DI Leach | |
| 880-42576-2 | S- 2, 0' | Soluble | Solid | DI Leach | |
| 880-42576-3 | S- 3, 0' | Soluble | Solid | DI Leach | |
| 880-42576-4 | S- 4, 0' | Soluble | Solid | DI Leach | |
| 880-42576-5 | S- 5, 0' | Soluble | Solid | DI Leach | |
| 880-42576-6 | S- 6, 0' | Soluble | Solid | DI Leach | |
| 880-42576-7 | S- 7, 0' | Soluble | Solid | DI Leach | |
| 880-42576-8 | S- 8, 0' | Soluble | Solid | DI Leach | |
| 880-42576-9 | S- 9, 0' | Soluble | Solid | DI Leach | |
| 880-42576-10 | S- 10, 0' | Soluble | Solid | DI Leach | |
| 880-42576-11 | S- 11, 0' | Soluble | Solid | DI Leach | |
| 880-42576-12 | S- 12, 0' | Soluble | Solid | DI Leach | |
| 880-42576-13 | S- 13, 0' | Soluble | Solid | DI Leach | |
| 880-42576-14 | S- 14, 0' | Soluble | Solid | DI Leach | |
| 880-42576-15 | S- 15, 0' | Soluble | Solid | DI Leach | |
| 880-42576-16 | S- 16, 0' | Soluble | Solid | DI Leach | |
| MB 880-79222/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-79222/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-79222/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-42576-7 MS | S- 7, 0' | Soluble | Solid | DI Leach | |
| 880-42576-7 MSD | S- 7, 0' | Soluble | Solid | DI Leach | |

### Leach Batch: 79223

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-17 | S- 17, 0' | Soluble | Solid | DI Leach | |
| 880-42576-18 | S- 18, 0' | Soluble | Solid | DI Leach | |
| 880-42576-19 | S- 19, 0' | Soluble | Solid | DI Leach | |
| 880-42576-20 | S- 20, 0' | Soluble | Solid | DI Leach | |
| 880-42576-21 | S- 21, 0' | Soluble | Solid | DI Leach | |
| 880-42576-22 | S- 22, 0' | Soluble | Solid | DI Leach | |
| 880-42576-23 | S- 23, 0' | Soluble | Solid | DI Leach | |
| 880-42576-24 | S- 24, 0' | Soluble | Solid | DI Leach | |
| MB 880-79223/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-79223/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-79223/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-42576-17 MS | S- 17, 0' | Soluble | Solid | DI Leach | |
| 880-42576-17 MSD | S- 17, 0' | Soluble | Solid | DI Leach | |

### Analysis Batch: 79306

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-1 | S- 1, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-2 | S- 2, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-3 | S- 3, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-4 | S- 4, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-5 | S- 5, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-6 | S- 6, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-7 | S- 7, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-8 | S- 8, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-9 | S- 9, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-10 | S- 10, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-11 | S- 11, 0' | Soluble | Solid | 300.0 | 79222 |

# QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## HPLC/IC (Continued)

### Analysis Batch: 79306 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-12 | S- 12, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-13 | S- 13, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-14 | S- 14, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-15 | S- 15, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-16 | S- 16, 0' | Soluble | Solid | 300.0 | 79222 |
| MB 880-79222/1-A | Method Blank | Soluble | Solid | 300.0 | 79222 |
| LCS 880-79222/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 79222 |
| LCSD 880-79222/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 79222 |
| 880-42576-7 MS | S- 7, 0' | Soluble | Solid | 300.0 | 79222 |
| 880-42576-7 MSD | S- 7, 0' | Soluble | Solid | 300.0 | 79222 |

### Analysis Batch: 79321

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-42576-17 | S- 17, 0' | Soluble | Solid | 300.0 | 79223 |
| 880-42576-18 | S- 18, 0' | Soluble | Solid | 300.0 | 79223 |
| 880-42576-19 | S- 19, 0' | Soluble | Solid | 300.0 | 79223 |
| 880-42576-20 | S- 20, 0' | Soluble | Solid | 300.0 | 79223 |
| 880-42576-21 | S- 21, 0' | Soluble | Solid | 300.0 | 79223 |
| 880-42576-22 | S- 22, 0' | Soluble | Solid | 300.0 | 79223 |
| 880-42576-23 | S- 23, 0' | Soluble | Solid | 300.0 | 79223 |
| 880-42576-24 | S- 24, 0' | Soluble | Solid | 300.0 | 79223 |
| MB 880-79223/1-A | Method Blank | Soluble | Solid | 300.0 | 79223 |
| LCS 880-79223/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 79223 |
| LCSD 880-79223/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 79223 |
| 880-42576-17 MS | S- 17, 0' | Soluble | Solid | 300.0 | 79223 |
| 880-42576-17 MSD | S- 17, 0' | Soluble | Solid | 300.0 | 79223 |

# Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 1, 0'
**Lab Sample ID: 880-42576-1**
**Date Collected: 04/19/24 10:05** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79049 | 04/23/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79381 | 04/26/24 11:46 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 11:46 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/25/24 17:35 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 5 | 1 uL | 1 uL | 79267 | 04/25/24 17:35 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 79306 | 04/26/24 00:43 | SMC | EET MID |

## Client Sample ID: S- 2, 0'
**Lab Sample ID: 880-42576-2**
**Date Collected: 04/19/24 10:10** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79049 | 04/23/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79381 | 04/26/24 12:07 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 12:07 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 13:29 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.05 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 79219 | 04/24/24 13:29 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 20 | 50 mL | 50 mL | 79306 | 04/26/24 01:02 | SMC | EET MID |

## Client Sample ID: S- 3, 0'
**Lab Sample ID: 880-42576-3**
**Date Collected: 04/19/24 10:15** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79049 | 04/23/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79381 | 04/26/24 12:27 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 12:27 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 15:37 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 5 | 1 uL | 1 uL | 79219 | 04/24/24 15:37 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 79306 | 04/26/24 01:08 | SMC | EET MID |

## Client Sample ID: S- 4, 0'
**Lab Sample ID: 880-42576-4**
**Date Collected: 04/19/24 10:20** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79323 | 04/25/24 14:09 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 50 | 5 mL | 5 mL | 79277 | 04/26/24 05:11 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 05:11 | AJ | EET MID |

# Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 4, 0'
**Lab Sample ID: 880-42576-4**
**Date Collected: 04/19/24 10:20** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 15:51 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.07 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 5 | 1 uL | 1 uL | 79219 | 04/24/24 15:51 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 20 | 50 mL | 50 mL | 79306 | 04/26/24 01:14 | SMC | EET MID |

## Client Sample ID: S- 5, 0'
**Lab Sample ID: 880-42576-5**
**Date Collected: 04/19/24 10:25** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79323 | 04/25/24 14:09 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 50 | 5 mL | 5 mL | 79277 | 04/26/24 05:31 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 05:31 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 16:06 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 5 | 1 uL | 1 uL | 79219 | 04/24/24 16:06 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 20 | 50 mL | 50 mL | 79306 | 04/26/24 01:21 | SMC | EET MID |

## Client Sample ID: S- 6, 0'
**Lab Sample ID: 880-42576-6**
**Date Collected: 04/19/24 10:30** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 79323 | 04/25/24 14:09 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 50 | 5 mL | 5 mL | 79277 | 04/26/24 05:52 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 05:52 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 16:20 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 5 | 1 uL | 1 uL | 79219 | 04/24/24 16:20 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 20 | 50 mL | 50 mL | 79306 | 04/26/24 01:27 | SMC | EET MID |

## Client Sample ID: S- 7, 0'
**Lab Sample ID: 880-42576-7**
**Date Collected: 04/19/24 10:35** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79049 | 04/23/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79381 | 04/26/24 12:47 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 12:47 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 13:43 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 79219 | 04/24/24 13:43 | AJ | EET MID |

# Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 7, 0'
**Lab Sample ID: 880-42576-7**
**Date Collected: 04/19/24 10:35** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 5 | 50 mL | 50 mL | 79306 | 04/26/24 01:33 | SMC | EET MID |

## Client Sample ID: S- 8, 0'
**Lab Sample ID: 880-42576-8**
**Date Collected: 04/19/24 10:40** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79049 | 04/23/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79381 | 04/26/24 13:08 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 13:08 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 13:58 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.08 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 79219 | 04/24/24 13:58 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 20 | 50 mL | 50 mL | 79306 | 04/26/24 01:52 | SMC | EET MID |

## Client Sample ID: S- 9, 0'
**Lab Sample ID: 880-42576-9**
**Date Collected: 04/19/24 10:45** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79049 | 04/23/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79381 | 04/26/24 13:28 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 13:28 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 16:34 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.09 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 5 | 1 uL | 1 uL | 79219 | 04/24/24 16:34 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.00 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 5 | 50 mL | 50 mL | 79306 | 04/26/24 01:58 | SMC | EET MID |

## Client Sample ID: S- 10, 0'
**Lab Sample ID: 880-42576-10**
**Date Collected: 04/19/24 10:50** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79049 | 04/23/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79381 | 04/26/24 13:49 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 13:49 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 16:49 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.10 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 5 | 1 uL | 1 uL | 79219 | 04/24/24 16:49 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.00 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 20 | 50 mL | 50 mL | 79306 | 04/26/24 02:17 | SMC | EET MID |

# Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 11, 0'
**Lab Sample ID: 880-42576-11**
**Date Collected: 04/19/24 10:55** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79049 | 04/23/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79381 | 04/26/24 14:09 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 14:09 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 17:03 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 5 | 1 uL | 1 uL | 79219 | 04/24/24 17:03 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 20 | 50 mL | 50 mL | 79306 | 04/26/24 02:24 | SMC | EET MID |

## Client Sample ID: S- 12, 0'
**Lab Sample ID: 880-42576-12**
**Date Collected: 04/19/24 11:00** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79323 | 04/25/24 14:09 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 50 | 5 mL | 5 mL | 79277 | 04/26/24 06:12 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 06:12 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 17:17 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 5 | 1 uL | 1 uL | 79219 | 04/24/24 17:17 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 79306 | 04/26/24 02:30 | SMC | EET MID |

## Client Sample ID: S- 13, 0'
**Lab Sample ID: 880-42576-13**
**Date Collected: 04/19/24 11:05** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79323 | 04/25/24 14:09 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 50 | 5 mL | 5 mL | 79277 | 04/26/24 06:33 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 06:33 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 14:12 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.05 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 79219 | 04/24/24 14:12 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 79306 | 04/26/24 02:36 | SMC | EET MID |

## Client Sample ID: S- 14, 0'
**Lab Sample ID: 880-42576-14**
**Date Collected: 04/19/24 11:10** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79049 | 04/23/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79381 | 04/26/24 18:05 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 18:05 | AJ | EET MID |

# Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 14, 0'
**Lab Sample ID: 880-42576-14**
**Date Collected: 04/19/24 11:10** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 17:31 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 5 | 1 uL | 1 uL | 79219 | 04/24/24 17:31 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 10 | 50 mL | 50 mL | 79306 | 04/26/24 02:43 | SMC | EET MID |

## Client Sample ID: S- 15, 0'
**Lab Sample ID: 880-42576-15**
**Date Collected: 04/19/24 11:15** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79049 | 04/23/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79381 | 04/26/24 18:26 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 18:26 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 17:45 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.07 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 5 | 1 uL | 1 uL | 79219 | 04/24/24 17:45 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 79306 | 04/26/24 02:49 | SMC | EET MID |

## Client Sample ID: S- 16, 0'
**Lab Sample ID: 880-42576-16**
**Date Collected: 04/19/24 11:20** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79323 | 04/25/24 14:09 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79277 | 04/26/24 03:49 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 03:49 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 14:26 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.09 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 79219 | 04/24/24 14:26 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 79222 | 04/24/24 10:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 79306 | 04/26/24 02:55 | SMC | EET MID |

## Client Sample ID: S- 17, 0'
**Lab Sample ID: 880-42576-17**
**Date Collected: 04/19/24 11:25** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79323 | 04/25/24 14:09 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79277 | 04/26/24 04:10 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 04:10 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 14:41 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.10 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 79219 | 04/24/24 14:41 | AJ | EET MID |

# Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 17, 0'
**Lab Sample ID: 880-42576-17**
**Date Collected: 04/19/24 11:25** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 79223 | 04/24/24 10:05 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 79321 | 04/25/24 20:24 | SMC | EET MID |

## Client Sample ID: S- 18, 0'
**Lab Sample ID: 880-42576-18**
**Date Collected: 04/19/24 11:30** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79323 | 04/25/24 14:09 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79277 | 04/26/24 04:30 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 04:30 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 14:55 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 79041 | 04/23/24 10:24 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 79219 | 04/24/24 14:55 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 79223 | 04/24/24 10:05 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 79321 | 04/25/24 20:43 | SMC | EET MID |

## Client Sample ID: S- 19, 0'
**Lab Sample ID: 880-42576-19**
**Date Collected: 04/19/24 11:35** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 79323 | 04/25/24 14:09 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79277 | 04/26/24 04:50 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/26/24 04:50 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 01:33 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 79037 | 04/23/24 10:06 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 5 | 1 uL | 1 uL | 79001 | 04/24/24 01:33 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 79223 | 04/24/24 10:05 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 79321 | 04/25/24 20:49 | SMC | EET MID |

## Client Sample ID: S- 20, 0'
**Lab Sample ID: 880-42576-20**
**Date Collected: 04/19/24 11:40** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79323 | 04/25/24 14:09 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79277 | 04/25/24 23:54 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/25/24 23:54 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 01:54 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 79037 | 04/23/24 10:06 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 5 | 1 uL | 1 uL | 79001 | 04/24/24 01:54 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 79223 | 04/24/24 10:05 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 79321 | 04/25/24 20:56 | SMC | EET MID |

# Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## Client Sample ID: S- 21, 0' — Lab Sample ID: 880-42576-21

**Date Collected: 04/19/24 11:45** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79568 | 04/29/24 16:18 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 20 | 5 mL | 5 mL | 79488 | 04/30/24 06:46 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/30/24 06:46 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 02:15 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 79037 | 04/23/24 10:06 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 79001 | 04/24/24 02:15 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 79223 | 04/24/24 10:05 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 20 | 50 mL | 50 mL | 79321 | 04/25/24 21:02 | SMC | EET MID |

## Client Sample ID: S- 22, 0' — Lab Sample ID: 880-42576-22

**Date Collected: 04/19/24 11:50** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 79283 | 04/25/24 08:32 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79277 | 04/25/24 18:37 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/25/24 18:37 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 02:37 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 79037 | 04/23/24 10:06 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 79001 | 04/24/24 02:37 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 79223 | 04/24/24 10:05 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 79321 | 04/25/24 21:21 | SMC | EET MID |

## Client Sample ID: S- 23, 0' — Lab Sample ID: 880-42576-23

**Date Collected: 04/19/24 11:55** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 79119 | 04/24/24 17:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79383 | 04/27/24 06:33 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/27/24 06:33 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 02:58 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 79037 | 04/23/24 10:06 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 79001 | 04/24/24 02:58 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 79223 | 04/24/24 10:05 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 79321 | 04/25/24 21:27 | SMC | EET MID |

## Client Sample ID: S- 24, 0' — Lab Sample ID: 880-42576-24

**Date Collected: 04/19/24 12:00** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| 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 | 79119 | 04/24/24 17:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 79383 | 04/27/24 06:53 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 79432 | 04/27/24 06:53 | AJ | EET MID |

Eurofins Midland

# Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

**Client Sample ID: S- 24, 0'** **Lab Sample ID: 880-42576-24**
**Date Collected: 04/19/24 12:00** **Matrix: Solid**
**Date Received: 04/23/24 09:27**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 79211 | 04/24/24 03:19 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.05 g | 10 mL | 79037 | 04/23/24 10:06 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 79001 | 04/24/24 03:19 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.00 g | 50 mL | 79223 | 04/24/24 10:05 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 79321 | 04/25/24 21:33 | SMC | EET MID |

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

## 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 | T104704400-23-26 | 06-30-24 |

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

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

# Method Summary

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

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

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

# Sample Summary

Client: Larson & Associates, Inc. Job ID: 880-42576-1
Project/Site: Chamaeleon State Com Batttery 2nd Spill SDG: 24-0117-01

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-42576-1 | S- 1, 0' | Solid | 04/19/24 10:05 | 04/23/24 09:27 |
| 880-42576-2 | S- 2, 0' | Solid | 04/19/24 10:10 | 04/23/24 09:27 |
| 880-42576-3 | S- 3, 0' | Solid | 04/19/24 10:15 | 04/23/24 09:27 |
| 880-42576-4 | S- 4, 0' | Solid | 04/19/24 10:20 | 04/23/24 09:27 |
| 880-42576-5 | S- 5, 0' | Solid | 04/19/24 10:25 | 04/23/24 09:27 |
| 880-42576-6 | S- 6, 0' | Solid | 04/19/24 10:30 | 04/23/24 09:27 |
| 880-42576-7 | S- 7, 0' | Solid | 04/19/24 10:35 | 04/23/24 09:27 |
| 880-42576-8 | S- 8, 0' | Solid | 04/19/24 10:40 | 04/23/24 09:27 |
| 880-42576-9 | S- 9, 0' | Solid | 04/19/24 10:45 | 04/23/24 09:27 |
| 880-42576-10 | S- 10, 0' | Solid | 04/19/24 10:50 | 04/23/24 09:27 |
| 880-42576-11 | S- 11, 0' | Solid | 04/19/24 10:55 | 04/23/24 09:27 |
| 880-42576-12 | S- 12, 0' | Solid | 04/19/24 11:00 | 04/23/24 09:27 |
| 880-42576-13 | S- 13, 0' | Solid | 04/19/24 11:05 | 04/23/24 09:27 |
| 880-42576-14 | S- 14, 0' | Solid | 04/19/24 11:10 | 04/23/24 09:27 |
| 880-42576-15 | S- 15, 0' | Solid | 04/19/24 11:15 | 04/23/24 09:27 |
| 880-42576-16 | S- 16, 0' | Solid | 04/19/24 11:20 | 04/23/24 09:27 |
| 880-42576-17 | S- 17, 0' | Solid | 04/19/24 11:25 | 04/23/24 09:27 |
| 880-42576-18 | S- 18, 0' | Solid | 04/19/24 11:30 | 04/23/24 09:27 |
| 880-42576-19 | S- 19, 0' | Solid | 04/19/24 11:35 | 04/23/24 09:27 |
| 880-42576-20 | S- 20, 0' | Solid | 04/19/24 11:40 | 04/23/24 09:27 |
| 880-42576-21 | S- 21, 0' | Solid | 04/19/24 11:45 | 04/23/24 09:27 |
| 880-42576-22 | S- 22, 0' | Solid | 04/19/24 11:50 | 04/23/24 09:27 |
| 880-42576-23 | S- 23, 0' | Solid | 04/19/24 11:55 | 04/23/24 09:27 |
| 880-42576-24 | S- 24, 0' | Solid | 04/19/24 12:00 | 04/23/24 09:27 |

880-42576 Chain of Custody

No. 3306

# CHAIN-OF-CUSTODY



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

Data Reported to Mark Larson

DATE 4/19/2024 PAGE 1 OF 2

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Chameleon State Com Battery 2nd SP

LAI PROJECT #. 24-0117-01 COLLECTOR RW

TRRP report? ☐ Yes ☑ No

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

TIME ZONE
Time zone/State
MST/NM

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ ☐ NaOH ☐ | ICE | UNPRESERVED | ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8082 PCBS ☐ | 8151 HERBICIDES ☐ | TCLP - METALS (RCRA) ☐ | TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ | OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐ | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1, 0' | | 4/19/24 | 1005 | S | 1 | | | | X | | X | | X | X | X | | | | | | | | | | | | | | | | | X | | 202 |
| S-2, 0' | | | 1010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-3, 0' | | | 1015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-4, 0' | | | 1020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-5, 0' | | | 1025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-6, 0' | | | 1030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-7, 0' | | | 1035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-8, 0' | | | 1040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-9, 0' | | | 1045 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-10, 0' | | | 1050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-11, 0' | | | 1055 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-12, 0' | | | 1100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-13, 0' | | | 1105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-14, 0' | | | 1110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-15, 0' | | | 1115 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) [signature] DATE/TIME 4/23 927 RECEIVED BY (Signature) [signature]

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

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

LABORATORY Xenco

**TURN AROUND TIME**
NORMAL ☑
1 DAY ☐
2 DAY ☐
OTHER ☐

**LABORATORY USE ONLY:**
RECEIVING TEMP 0.3/0.2 THERM# IR8 - 10
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

425760

No. 3307

# CHAIN-OF-CUSTODY



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

Data Reported to

DATE 4/19/2024 PAGE 2 OF 2

PO# _____ LAB WORK ORDER#. _____

PROJECT LOCATION OR NAME Chameleon State Com Battery 1st Spill

LAI PROJECT # 24-0117-01 COLLECTOR RW

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MST/MM

| Field Sample I D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ ☐ NaOH ☐ | ICE | UNPRESSERVED | ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 | DIESEL - MOD 8015 | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐ | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-16, 0' | | 4/19/24 | 1120 | S | 1 | | | | X | | X | | | X | X | X | | | | | | | | | | | | | X | | |
| S-17, 0' | | | 1125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-18, 0' | | | 1130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-19, 0' | | | 1135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-20, 0' | | | 1140 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-21, 0' | | | 1145 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-22, 0' | | | 1150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-23, 0' | | | 1155 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-24, 0' | | | 1200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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TOTAL 9

RELINQUISHED BY (Signature) DATE/TIME 4/23 927 RECEIVED BY (Signature)

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

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

LABORATORY Xenco

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

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

# Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-42576-1
SDG Number: 24-0117-01

**Login Number: 42576**
**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 | |

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 6/24/2024 6:14:19 PM

## JOB DESCRIPTION

Chameleon State Com 2nd Spill
24-0117-01

## JOB NUMBER

880-45026-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.





my EOL

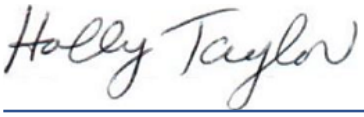
# Eurofins Midland

## Job Notes

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

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

## Authorization



Generated
6/24/2024 6:14:19 PM

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

Client: Larson & Associates, Inc.
Project/Site: Chameleon State Com 2nd Spill

Laboratory Job ID: 880-45026-1
SDG: 24-0117-01

# Table of Contents

# Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## Qualifiers

### GC VOA

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

### GC Semi VOA

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

### HPLC/IC

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

## Glossary

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

# Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project: Chameleon State Com 2nd Spill

## Job ID: 880-45026-1 Eurofins Midland

**Job Narrative**
**880-45026-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**
The samples were received on 6/20/2024 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 5.5°C.

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

**Diesel Range Organics**
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-83672/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SP- 4 0.5' (880-45026-5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-83734/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-83734 and analytical batch 880-83869 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-83734 and analytical batch 880-83869 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

# Client Sample Results

Client: Larson & Associates, Inc.
Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill
SDG: 24-0117-01

## Client Sample ID: SP- 1 1'
**Lab Sample ID: 880-45026-1**
**Date Collected: 06/18/24 11:10**
**Matrix: Solid**
**Date Received: 06/20/24 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 | | 06/20/24 10:45 | 06/20/24 17:18 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:18 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:18 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:18 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:18 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 17:18* | *1* |
| *1,4-Difluorobenzene (Surr)* | *89* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 17:18* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 06/20/24 17:18 | 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 | | | 06/22/24 00:16 | 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 | <49.8 | U | 49.8 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 00:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 00:16 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 00:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *97* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 00:16* | *1* |
| *o-Terphenyl (Surr)* | *105* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 00:16* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **733** | | 50.4 | | mg/Kg | | | 06/21/24 10:14 | 10 |

## Client Sample ID: SP- 1 3'
**Lab Sample ID: 880-45026-2**
**Date Collected: 06/18/24 11:40**
**Matrix: Solid**
**Date Received: 06/20/24 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 | | 06/20/24 10:45 | 06/20/24 17:38 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:38 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:38 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:38 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:38 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 17:38* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 17:38* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chameleon State Com 2nd Spill

Job ID: 880-45026-1
SDG: 24-0117-01

## Client Sample ID: SP- 1 3'

**Date Collected: 06/18/24 11:40**
**Date Received: 06/20/24 09:20**

**Lab Sample ID: 880-45026-2**
**Matrix: Solid**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 06/20/24 17:38 | 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 | | | 06/22/24 00:37 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 00:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 00:37 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 00:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *112* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 00:37* | *1* |
| *o-Terphenyl (Surr)* | *120* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 00:37* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **294** | | 25.1 | | mg/Kg | | | 06/21/24 10:19 | 5 |

## Client Sample ID: SP- 2 1'

**Date Collected: 06/18/24 12:20**
**Date Received: 06/20/24 09:20**

**Lab Sample ID: 880-45026-3**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:59 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:59 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:59 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:59 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:59 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 17:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *107* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 17:59* | *1* |
| *1,4-Difluorobenzene (Surr)* | *92* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 17:59* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 06/20/24 17:59 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **666** | | 50.0 | | mg/Kg | | | 06/22/24 00:57 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 00:57 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **666** | | 50.0 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 00:57 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## Client Sample ID: SP- 2 1'
**Lab Sample ID: 880-45026-3**
**Date Collected: 06/18/24 12:20** **Matrix: Solid**
**Date Received: 06/20/24 09:20**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 00:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *99* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 00:57* | *1* |
| *o-Terphenyl (Surr)* | *101* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 00:57* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **520** | | 50.4 | | mg/Kg | | | 06/21/24 10:34 | 10 |

## Client Sample ID: SP- 3 0.5'
**Lab Sample ID: 880-45026-4**
**Date Collected: 06/18/24 12:50** **Matrix: Solid**
**Date Received: 06/20/24 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 | | 06/20/24 10:45 | 06/20/24 18:19 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 18:19 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 18:19 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 18:19 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 18:19 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 18:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 18:19* | *1* |
| *1,4-Difluorobenzene (Surr)* | *92* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 18:19* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 06/20/24 18:19 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **1120** | | 49.7 | | mg/Kg | | | 06/22/24 01:18 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 49.7 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 01:18 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **1120** | | 49.7 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 01:18 | 1 |
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 01:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *103* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 01:18* | *1* |
| *o-Terphenyl (Surr)* | *96* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 01:18* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **16800** | | 249 | | mg/Kg | | | 06/21/24 10:39 | 50 |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## Client Sample ID: SP- 4 0.5'

**Lab Sample ID: 880-45026-5**
**Date Collected: 06/18/24 13:45**
**Matrix: Solid**
**Date Received: 06/20/24 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 | | 06/20/24 10:45 | 06/20/24 18:39 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 18:39 | 1 |
| **Ethylbenzene** | **0.00236** | | 0.00199 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 18:39 | 1 |
| **m,p-Xylenes** | **0.00674** | | 0.00398 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 18:39 | 1 |
| **o-Xylene** | **0.00325** | | 0.00199 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 18:39 | 1 |
| **Xylenes, Total** | **0.00999** | | 0.00398 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 18:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *131* | *S1+* | *70 - 130* | *06/20/24 10:45* | *06/20/24 18:39* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 18:39* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0124** | | 0.00398 | | mg/Kg | | | 06/20/24 18:39 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **149** | | 49.8 | | mg/Kg | | | 06/22/24 01:37 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 01:37 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **149** | | 49.8 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 01:37 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 01:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *9* | *S1-* | *70 - 130* | *06/20/24 08:58* | *06/22/24 01:37* | *1* |
| *o-Terphenyl (Surr)* | *12* | *S1-* | *70 - 130* | *06/20/24 08:58* | *06/22/24 01:37* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **4200** | | 100 | | mg/Kg | | | 06/21/24 10:54 | 20 |

## Client Sample ID: SP- 5 1'

**Lab Sample ID: 880-45026-6**
**Date Collected: 06/18/24 14:20**
**Matrix: Solid**
**Date Received: 06/20/24 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 | | 06/20/24 10:45 | 06/20/24 19:00 | 1 |
| **Toluene** | **0.00484** | | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:00 | 1 |
| **Ethylbenzene** | **0.0237** | | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:00 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:00 | 1 |
| **o-Xylene** | **0.0330** | | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:00 | 1 |
| **Xylenes, Total** | **0.0330** | | 0.00402 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 19:00* | *1* |
| *1,4-Difluorobenzene (Surr)* | *88* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 19:00* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## Client Sample ID: SP- 5 1'
**Lab Sample ID: 880-45026-6**
**Date Collected: 06/18/24 14:20** **Matrix: Solid**
**Date Received: 06/20/24 09:20**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.0615** | | 0.00402 | | mg/Kg | | | 06/20/24 19:00 | 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 | | | 06/22/24 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 | <49.8 | U | 49.8 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 02:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 02:43 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 02:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *101* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 02:43* | *1* |
| *o-Terphenyl (Surr)* | *110* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 02:43* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **2070** | | 49.7 | | mg/Kg | | | 06/21/24 10:59 | 10 |

## Client Sample ID: SP- 6 1'
**Lab Sample ID: 880-45026-7**
**Date Collected: 06/18/24 15:00** **Matrix: Solid**
**Date Received: 06/20/24 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 | | 06/20/24 10:45 | 06/20/24 19:20 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:20 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:20 | 1 |
| m,p-Xylenes | <0.00404 | U | 0.00404 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:20 | 1 |
| **o-Xylene** | **0.00282** | | 0.00202 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:20 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 19:20* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 19:20* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00404 | U | 0.00404 | | mg/Kg | | | 06/20/24 19:20 | 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 | | | 06/22/24 03:04 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 03:04 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 03:04 | 1 |

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# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## Client Sample ID: SP- 6 1'
**Lab Sample ID: 880-45026-7**
**Date Collected: 06/18/24 15:00** **Matrix: Solid**
**Date Received: 06/20/24 09:20**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 03:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *101* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 03:04* | *1* |
| *o-Terphenyl (Surr)* | *108* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 03:04* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1190** | | 49.6 | | mg/Kg | | | 06/21/24 11:04 | 10 |

## Client Sample ID: SP- 6 2'
**Lab Sample ID: 880-45026-8**
**Date Collected: 06/18/24 15:20** **Matrix: Solid**
**Date Received: 06/20/24 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 | | 06/20/24 10:45 | 06/20/24 19:41 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:41 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:41 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:41 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:41 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 19:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 19:41* | *1* |
| *1,4-Difluorobenzene (Surr)* | *89* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 19:41* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 06/20/24 19:41 | 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 | | | 06/22/24 03:24 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 03:24 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 03:24 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 03:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *99* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 03:24* | *1* |
| *o-Terphenyl (Surr)* | *107* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 03:24* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1070** | | 49.8 | | mg/Kg | | | 06/21/24 11:09 | 10 |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## Client Sample ID: SP- 7 0.5'
**Lab Sample ID: 880-45026-9**
**Date Collected: 06/19/24 10:05** **Matrix: Solid**
**Date Received: 06/20/24 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 | | 06/20/24 10:45 | 06/20/24 20:01 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 20:01 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 20:01 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 20:01 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 20:01 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 20:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 20:01* | *1* |
| *1,4-Difluorobenzene (Surr)* | *92* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 20:01* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 06/20/24 20:01 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 06/22/24 03:45 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 03:45 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 03:45 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/20/24 08:58 | 06/22/24 03:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *82* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 03:45* | *1* |
| *o-Terphenyl (Surr)* | *87* | | *70 - 130* | *06/20/24 08:58* | *06/22/24 03:45* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **501** | | 50.4 | | mg/Kg | | | 06/21/24 11:14 | 10 |

## Client Sample ID: SP- 8 0.5'
**Lab Sample ID: 880-45026-10**
**Date Collected: 06/19/24 10:15** **Matrix: Solid**
**Date Received: 06/20/24 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 | | 06/20/24 10:45 | 06/20/24 20:22 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 20:22 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 20:22 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 20:22 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 20:22 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 20:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 20:22* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 20:22* | *1* |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## Client Sample ID: SP- 8 0.5'
**Lab Sample ID: 880-45026-10**
**Date Collected: 06/19/24 10:15** **Matrix: Solid**
**Date Received: 06/20/24 09:20**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 06/20/24 20:22 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 06/22/24 10:12 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 15:41 | 06/22/24 10:12 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U F1 | 50.0 | | mg/Kg | | 06/20/24 15:41 | 06/22/24 10:12 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 15:41 | 06/22/24 10:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *96* | | *70 - 130* | *06/20/24 15:41* | *06/22/24 10:12* | *1* |
| *o-Terphenyl (Surr)* | *96* | | *70 - 130* | *06/20/24 15:41* | *06/22/24 10:12* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **841** | | 50.3 | | mg/Kg | | | 06/21/24 11:19 | 10 |

## Client Sample ID: SP- 9 0.5'
**Lab Sample ID: 880-45026-11**
**Date Collected: 06/19/24 10:30** **Matrix: Solid**
**Date Received: 06/20/24 09:20**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 21:45 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 21:45 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 21:45 | 1 |
| m,p-Xylenes | <0.00396 | U | 0.00396 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 21:45 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 21:45 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 21:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 21:45* | *1* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 21:45* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00396 | U | 0.00396 | | mg/Kg | | | 06/20/24 21:45 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | | 06/22/24 11:13 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 06/20/24 15:41 | 06/22/24 11:13 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 06/20/24 15:41 | 06/22/24 11:13 | 1 |

# Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## Client Sample ID: SP- 9 0.5' Lab Sample ID: 880-45026-11

**Date Collected: 06/19/24 10:30** **Matrix: Solid**
**Date Received: 06/20/24 09:20**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 06/20/24 15:41 | 06/22/24 11:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *89* | | *70 - 130* | *06/20/24 15:41* | *06/22/24 11:13* | *1* |
| *o-Terphenyl (Surr)* | *91* | | *70 - 130* | *06/20/24 15:41* | *06/22/24 11:13* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **532** | | 50.4 | | mg/Kg | | | 06/21/24 11:24 | 10 |

## Client Sample ID: SP- 10 0.5' Lab Sample ID: 880-45026-12

**Date Collected: 06/19/24 10:45** **Matrix: Solid**
**Date Received: 06/20/24 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 | | 06/20/24 10:45 | 06/20/24 22:06 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 22:06 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 22:06 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 22:06 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 22:06 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 22:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 22:06* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 22:06* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 06/20/24 22:06 | 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 | | | 06/22/24 11:33 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 49.7 | | mg/Kg | | 06/20/24 15:41 | 06/22/24 11:33 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | | mg/Kg | | 06/20/24 15:41 | 06/22/24 11:33 | 1 |
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | | mg/Kg | | 06/20/24 15:41 | 06/22/24 11:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *85* | | *70 - 130* | *06/20/24 15:41* | *06/22/24 11:33* | *1* |
| *o-Terphenyl (Surr)* | *86* | | *70 - 130* | *06/20/24 15:41* | *06/22/24 11:33* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1030** | | 49.8 | | mg/Kg | | | 06/22/24 13:55 | 10 |

# Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## 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) |
| 880-45026-1 | SP- 1 1' | 101 | 89 |
| 880-45026-1 MS | SP- 1 1' | 96 | 97 |
| 880-45026-1 MSD | SP- 1 1' | 97 | 97 |
| 880-45026-2 | SP- 1 3' | 103 | 90 |
| 880-45026-3 | SP- 2 1' | 107 | 92 |
| 880-45026-4 | SP- 3 0.5' | 104 | 92 |
| 880-45026-5 | SP- 4 0.5' | 131 S1+ | 108 |
| 880-45026-6 | SP- 5 1' | 104 | 88 |
| 880-45026-7 | SP- 6 1' | 103 | 90 |
| 880-45026-8 | SP- 6 2' | 104 | 89 |
| 880-45026-9 | SP- 7 0.5' | 108 | 92 |
| 880-45026-10 | SP- 8 0.5' | 109 | 93 |
| 880-45026-11 | SP- 9 0.5' | 106 | 91 |
| 880-45026-12 | SP- 10 0.5' | 110 | 93 |
| LCS 880-83703/1-A | Lab Control Sample | 96 | 96 |
| LCSD 880-83703/2-A | Lab Control Sample Dup | 95 | 96 |
| MB 880-83703/5-A | Method Blank | 101 | 88 |

**Surrogate Legend**

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

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 880-45026-1 | SP- 1 1' | 97 | 105 |
| 880-45026-2 | SP- 1 3' | 112 | 120 |
| 880-45026-3 | SP- 2 1' | 99 | 101 |
| 880-45026-4 | SP- 3 0.5' | 103 | 96 |
| 880-45026-5 | SP- 4 0.5' | 9 S1- | 12 S1- |
| 880-45026-6 | SP- 5 1' | 101 | 110 |
| 880-45026-7 | SP- 6 1' | 101 | 108 |
| 880-45026-8 | SP- 6 2' | 99 | 107 |
| 880-45026-9 | SP- 7 0.5' | 82 | 87 |
| 880-45026-10 | SP- 8 0.5' | 96 | 96 |
| 880-45026-10 MS | SP- 8 0.5' | 96 | 88 |
| 880-45026-10 MSD | SP- 8 0.5' | 95 | 88 |
| 880-45026-11 | SP- 9 0.5' | 89 | 91 |
| 880-45026-12 | SP- 10 0.5' | 85 | 86 |
| LCS 880-83672/2-A | Lab Control Sample | 119 | 118 |
| LCS 880-83734/2-A | Lab Control Sample | 128 | 118 |
| LCSD 880-83672/3-A | Lab Control Sample Dup | 132 S1+ | 125 |
| LCSD 880-83734/3-A | Lab Control Sample Dup | 133 S1+ | 124 |
| MB 880-83672/1-A | Method Blank | 109 | 114 |
| MB 880-83734/1-A | Method Blank | 109 | 115 |

**Surrogate Legend**

1CO = 1-Chlorooctane (Surr)

# Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Chameleon State Com 2nd Spill

Job ID: 880-45026-1
SDG: 24-0117-01

OTPH = o-Terphenyl (Surr)

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: MB 880-83703/5-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83725** **Prep Batch: 83703**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 16:56 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 16:56 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 16:56 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 16:56 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 16:56 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 06/20/24 10:45 | 06/20/24 16:56 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 16:56* | *1* |
| *1,4-Difluorobenzene (Surr)* | *88* | | *70 - 130* | *06/20/24 10:45* | *06/20/24 16:56* | *1* |

**Lab Sample ID: LCS 880-83703/1-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83725** **Prep Batch: 83703**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1028 | | mg/Kg | | 103 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09283 | | mg/Kg | | 93 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.08958 | | mg/Kg | | 90 | 70 - 130 | | |
| m,p-Xylenes | | | 0.200 | 0.1866 | | mg/Kg | | 93 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.09581 | | mg/Kg | | 96 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* |

**Lab Sample ID: LCSD 880-83703/2-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83725** **Prep Batch: 83703**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1043 | | mg/Kg | | 104 | 70 - 130 | 1 | 35 |
| Toluene | | | 0.100 | 0.09344 | | mg/Kg | | 93 | 70 - 130 | 1 | 35 |
| Ethylbenzene | | | 0.100 | 0.09009 | | mg/Kg | | 90 | 70 - 130 | 1 | 35 |
| m,p-Xylenes | | | 0.200 | 0.1878 | | mg/Kg | | 94 | 70 - 130 | 1 | 35 |
| o-Xylene | | | 0.100 | 0.09676 | | mg/Kg | | 97 | 70 - 130 | 1 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *95* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* |

**Lab Sample ID: 880-45026-1 MS** **Client Sample ID: SP- 1 1'**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83725** **Prep Batch: 83703**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.100 | 0.1019 | | mg/Kg | | 102 | 70 - 130 | | |
| Toluene | <0.00200 | U | 0.100 | 0.09138 | | mg/Kg | | 91 | 70 - 130 | | |

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: 880-45026-1 MS** **Client Sample ID: SP- 1 1'**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83725** **Prep Batch: 83703**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00200 | U | 0.100 | 0.08777 | | mg/Kg | | 88 | 70 - 130 |
| m,p-Xylenes | <0.00400 | U | 0.200 | 0.1812 | | mg/Kg | | 91 | 70 - 130 |
| o-Xylene | <0.00200 | U | 0.100 | 0.09356 | | mg/Kg | | 94 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* |

**Lab Sample ID: 880-45026-1 MSD** **Client Sample ID: SP- 1 1'**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83725** **Prep Batch: 83703**

| 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 | 0.1017 | | mg/Kg | | 102 | 70 - 130 | 0 | 35 |
| Toluene | <0.00200 | U | 0.100 | 0.09110 | | mg/Kg | | 91 | 70 - 130 | 0 | 35 |
| Ethylbenzene | <0.00200 | U | 0.100 | 0.08717 | | mg/Kg | | 87 | 70 - 130 | 1 | 35 |
| m,p-Xylenes | <0.00400 | U | 0.200 | 0.1802 | | mg/Kg | | 90 | 70 - 130 | 1 | 35 |
| o-Xylene | <0.00200 | U | 0.100 | 0.09336 | | mg/Kg | | 93 | 70 - 130 | 0 | 35 |

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

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

**Lab Sample ID: MB 880-83672/1-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83752** **Prep Batch: 83672**

| 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 | | 06/20/24 08:58 | 06/21/24 18:30 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 08:58 | 06/21/24 18:30 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 08:58 | 06/21/24 18:30 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane (Surr)* | *109* | | *70 - 130* | *06/20/24 08:58* | *06/21/24 18:30* | *1* |
| *o-Terphenyl (Surr)* | *114* | | *70 - 130* | *06/20/24 08:58* | *06/21/24 18:30* | *1* |

**Lab Sample ID: LCS 880-83672/2-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83752** **Prep Batch: 83672**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 972.4 | | mg/Kg | | 97 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 932.8 | | mg/Kg | | 93 | 70 - 130 |

Eurofins Midland

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: LCS 880-83672/2-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83752** **Prep Batch: 83672**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 119 | | 70 - 130 |
| o-Terphenyl (Surr) | 118 | | 70 - 130 |

**Lab Sample ID: LCSD 880-83672/3-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83752** **Prep Batch: 83672**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1016 | | mg/Kg | | 102 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 956.6 | | mg/Kg | | 96 | 70 - 130 | 3 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 132 | S1+ | 70 - 130 |
| o-Terphenyl (Surr) | 125 | | 70 - 130 |

**Lab Sample ID: MB 880-83734/1-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83869** **Prep Batch: 83734**

| 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 | | 06/20/24 15:41 | 06/22/24 07:50 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 15:41 | 06/22/24 07:50 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/20/24 15:41 | 06/22/24 07:50 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane (Surr) | 109 | | 70 - 130 | 06/20/24 15:41 | 06/22/24 07:50 | 1 |
| o-Terphenyl (Surr) | 115 | | 70 - 130 | 06/20/24 15:41 | 06/22/24 07:50 | 1 |

**Lab Sample ID: LCS 880-83734/2-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83869** **Prep Batch: 83734**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 907.1 | | mg/Kg | | 91 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 914.0 | | mg/Kg | | 91 | 70 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane (Surr) | 128 | | 70 - 130 |
| o-Terphenyl (Surr) | 118 | | 70 - 130 |

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: LCSD 880-83734/3-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83869** **Prep Batch: 83734**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 967.1 | | mg/Kg | | 97 | 70 - 130 | 6 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 918.3 | | mg/Kg | | 92 | 70 - 130 | 0 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *133* | *S1+* | *70 - 130* |
| *o-Terphenyl (Surr)* | *124* | | *70 - 130* |

**Lab Sample ID: 880-45026-10 MS** **Client Sample ID: SP- 8 0.5'**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83869** **Prep Batch: 83734**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 999 | 945.5 | | mg/Kg | | 92 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U F1 | 999 | 490.9 | F1 | mg/Kg | | 49 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *96* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *88* | | *70 - 130* |

**Lab Sample ID: 880-45026-10 MSD** **Client Sample ID: SP- 8 0.5'**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 83869** **Prep Batch: 83734**

| 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 | 999 | 929.9 | | mg/Kg | | 90 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U F1 | 999 | 500.6 | F1 | mg/Kg | | 50 | 70 - 130 | 2 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane (Surr)* | *95* | | *70 - 130* |
| *o-Terphenyl (Surr)* | *88* | | *70 - 130* |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-83714/1-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Soluble**
**Analysis Batch: 83773**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 06/21/24 08:53 | 1 |

# QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

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

**Lab Sample ID: LCS 880-83714/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 83773**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 232.6 | | mg/Kg | | 93 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-83714/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 83773**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 233.5 | | mg/Kg | | 93 | 90 - 110 | 0 | 20 |

**Lab Sample ID: 880-45026-2 MS** — **Client Sample ID: SP- 1 3'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 83773**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 294 | | 1260 | 1502 | | mg/Kg | | 96 | 90 - 110 | | |

**Lab Sample ID: 880-45026-2 MSD** — **Client Sample ID: SP- 1 3'**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 83773**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 294 | | 1260 | 1506 | | mg/Kg | | 97 | 90 - 110 | 0 | 20 |

**Lab Sample ID: MB 880-83756/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 83801**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 06/22/24 12:58 | 1 |

**Lab Sample ID: LCS 880-83756/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 83801**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 259.4 | | mg/Kg | | 104 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-83756/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 83801**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 261.2 | | mg/Kg | | 104 | 90 - 110 | 1 | 20 |

# QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## GC VOA

### Prep Batch: 83703

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-1 | SP- 1 1' | Total/NA | Solid | 5035 | |
| 880-45026-2 | SP- 1 3' | Total/NA | Solid | 5035 | |
| 880-45026-3 | SP- 2 1' | Total/NA | Solid | 5035 | |
| 880-45026-4 | SP- 3 0.5' | Total/NA | Solid | 5035 | |
| 880-45026-5 | SP- 4 0.5' | Total/NA | Solid | 5035 | |
| 880-45026-6 | SP- 5 1' | Total/NA | Solid | 5035 | |
| 880-45026-7 | SP- 6 1' | Total/NA | Solid | 5035 | |
| 880-45026-8 | SP- 6 2' | Total/NA | Solid | 5035 | |
| 880-45026-9 | SP- 7 0.5' | Total/NA | Solid | 5035 | |
| 880-45026-10 | SP- 8 0.5' | Total/NA | Solid | 5035 | |
| 880-45026-11 | SP- 9 0.5' | Total/NA | Solid | 5035 | |
| 880-45026-12 | SP- 10 0.5' | Total/NA | Solid | 5035 | |
| MB 880-83703/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-83703/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-83703/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-45026-1 MS | SP- 1 1' | Total/NA | Solid | 5035 | |
| 880-45026-1 MSD | SP- 1 1' | Total/NA | Solid | 5035 | |

### Analysis Batch: 83725

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-1 | SP- 1 1' | Total/NA | Solid | 8021B | 83703 |
| 880-45026-2 | SP- 1 3' | Total/NA | Solid | 8021B | 83703 |
| 880-45026-3 | SP- 2 1' | Total/NA | Solid | 8021B | 83703 |
| 880-45026-4 | SP- 3 0.5' | Total/NA | Solid | 8021B | 83703 |
| 880-45026-5 | SP- 4 0.5' | Total/NA | Solid | 8021B | 83703 |
| 880-45026-6 | SP- 5 1' | Total/NA | Solid | 8021B | 83703 |
| 880-45026-7 | SP- 6 1' | Total/NA | Solid | 8021B | 83703 |
| 880-45026-8 | SP- 6 2' | Total/NA | Solid | 8021B | 83703 |
| 880-45026-9 | SP- 7 0.5' | Total/NA | Solid | 8021B | 83703 |
| 880-45026-10 | SP- 8 0.5' | Total/NA | Solid | 8021B | 83703 |
| 880-45026-11 | SP- 9 0.5' | Total/NA | Solid | 8021B | 83703 |
| 880-45026-12 | SP- 10 0.5' | Total/NA | Solid | 8021B | 83703 |
| MB 880-83703/5-A | Method Blank | Total/NA | Solid | 8021B | 83703 |
| LCS 880-83703/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 83703 |
| LCSD 880-83703/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 83703 |
| 880-45026-1 MS | SP- 1 1' | Total/NA | Solid | 8021B | 83703 |
| 880-45026-1 MSD | SP- 1 1' | Total/NA | Solid | 8021B | 83703 |

### Analysis Batch: 83839

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-1 | SP- 1 1' | Total/NA | Solid | Total BTEX | |
| 880-45026-2 | SP- 1 3' | Total/NA | Solid | Total BTEX | |
| 880-45026-3 | SP- 2 1' | Total/NA | Solid | Total BTEX | |
| 880-45026-4 | SP- 3 0.5' | Total/NA | Solid | Total BTEX | |
| 880-45026-5 | SP- 4 0.5' | Total/NA | Solid | Total BTEX | |
| 880-45026-6 | SP- 5 1' | Total/NA | Solid | Total BTEX | |
| 880-45026-7 | SP- 6 1' | Total/NA | Solid | Total BTEX | |
| 880-45026-8 | SP- 6 2' | Total/NA | Solid | Total BTEX | |
| 880-45026-9 | SP- 7 0.5' | Total/NA | Solid | Total BTEX | |
| 880-45026-10 | SP- 8 0.5' | Total/NA | Solid | Total BTEX | |
| 880-45026-11 | SP- 9 0.5' | Total/NA | Solid | Total BTEX | |

# QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## GC VOA (Continued)

### Analysis Batch: 83839 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-12 | SP- 10 0.5' | Total/NA | Solid | Total BTEX | |

## GC Semi VOA

### Prep Batch: 83672

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-1 | SP- 1 1' | Total/NA | Solid | 8015NM Prep | |
| 880-45026-2 | SP- 1 3' | Total/NA | Solid | 8015NM Prep | |
| 880-45026-3 | SP- 2 1' | Total/NA | Solid | 8015NM Prep | |
| 880-45026-4 | SP- 3 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-45026-5 | SP- 4 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-45026-6 | SP- 5 1' | Total/NA | Solid | 8015NM Prep | |
| 880-45026-7 | SP- 6 1' | Total/NA | Solid | 8015NM Prep | |
| 880-45026-8 | SP- 6 2' | Total/NA | Solid | 8015NM Prep | |
| 880-45026-9 | SP- 7 0.5' | Total/NA | Solid | 8015NM Prep | |
| MB 880-83672/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-83672/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-83672/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

### Prep Batch: 83734

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-10 | SP- 8 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-45026-11 | SP- 9 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-45026-12 | SP- 10 0.5' | Total/NA | Solid | 8015NM Prep | |
| MB 880-83734/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-83734/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-83734/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-45026-10 MS | SP- 8 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-45026-10 MSD | SP- 8 0.5' | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 83752

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-1 | SP- 1 1' | Total/NA | Solid | 8015B NM | 83672 |
| 880-45026-2 | SP- 1 3' | Total/NA | Solid | 8015B NM | 83672 |
| 880-45026-3 | SP- 2 1' | Total/NA | Solid | 8015B NM | 83672 |
| 880-45026-4 | SP- 3 0.5' | Total/NA | Solid | 8015B NM | 83672 |
| 880-45026-5 | SP- 4 0.5' | Total/NA | Solid | 8015B NM | 83672 |
| 880-45026-6 | SP- 5 1' | Total/NA | Solid | 8015B NM | 83672 |
| 880-45026-7 | SP- 6 1' | Total/NA | Solid | 8015B NM | 83672 |
| 880-45026-8 | SP- 6 2' | Total/NA | Solid | 8015B NM | 83672 |
| 880-45026-9 | SP- 7 0.5' | Total/NA | Solid | 8015B NM | 83672 |
| MB 880-83672/1-A | Method Blank | Total/NA | Solid | 8015B NM | 83672 |
| LCS 880-83672/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 83672 |
| LCSD 880-83672/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 83672 |

### Analysis Batch: 83869

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-10 | SP- 8 0.5' | Total/NA | Solid | 8015B NM | 83734 |
| 880-45026-11 | SP- 9 0.5' | Total/NA | Solid | 8015B NM | 83734 |
| 880-45026-12 | SP- 10 0.5' | Total/NA | Solid | 8015B NM | 83734 |
| MB 880-83734/1-A | Method Blank | Total/NA | Solid | 8015B NM | 83734 |

# QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## GC Semi VOA (Continued)

### Analysis Batch: 83869 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 880-83734/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 83734 |
| LCSD 880-83734/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 83734 |
| 880-45026-10 MS | SP- 8 0.5' | Total/NA | Solid | 8015B NM | 83734 |
| 880-45026-10 MSD | SP- 8 0.5' | Total/NA | Solid | 8015B NM | 83734 |

### Analysis Batch: 83966

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-1 | SP- 1 1' | Total/NA | Solid | 8015 NM | |
| 880-45026-2 | SP- 1 3' | Total/NA | Solid | 8015 NM | |
| 880-45026-3 | SP- 2 1' | Total/NA | Solid | 8015 NM | |
| 880-45026-4 | SP- 3 0.5' | Total/NA | Solid | 8015 NM | |
| 880-45026-5 | SP- 4 0.5' | Total/NA | Solid | 8015 NM | |
| 880-45026-6 | SP- 5 1' | Total/NA | Solid | 8015 NM | |
| 880-45026-7 | SP- 6 1' | Total/NA | Solid | 8015 NM | |
| 880-45026-8 | SP- 6 2' | Total/NA | Solid | 8015 NM | |
| 880-45026-9 | SP- 7 0.5' | Total/NA | Solid | 8015 NM | |
| 880-45026-10 | SP- 8 0.5' | Total/NA | Solid | 8015 NM | |
| 880-45026-11 | SP- 9 0.5' | Total/NA | Solid | 8015 NM | |
| 880-45026-12 | SP- 10 0.5' | Total/NA | Solid | 8015 NM | |

## HPLC/IC

### Leach Batch: 83714

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-1 | SP- 1 1' | Soluble | Solid | DI Leach | |
| 880-45026-2 | SP- 1 3' | Soluble | Solid | DI Leach | |
| 880-45026-3 | SP- 2 1' | Soluble | Solid | DI Leach | |
| 880-45026-4 | SP- 3 0.5' | Soluble | Solid | DI Leach | |
| 880-45026-5 | SP- 4 0.5' | Soluble | Solid | DI Leach | |
| 880-45026-6 | SP- 5 1' | Soluble | Solid | DI Leach | |
| 880-45026-7 | SP- 6 1' | Soluble | Solid | DI Leach | |
| 880-45026-8 | SP- 6 2' | Soluble | Solid | DI Leach | |
| 880-45026-9 | SP- 7 0.5' | Soluble | Solid | DI Leach | |
| 880-45026-10 | SP- 8 0.5' | Soluble | Solid | DI Leach | |
| 880-45026-11 | SP- 9 0.5' | Soluble | Solid | DI Leach | |
| MB 880-83714/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-83714/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-83714/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-45026-2 MS | SP- 1 3' | Soluble | Solid | DI Leach | |
| 880-45026-2 MSD | SP- 1 3' | Soluble | Solid | DI Leach | |

### Leach Batch: 83756

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-12 | SP- 10 0.5' | Soluble | Solid | DI Leach | |
| MB 880-83756/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-83756/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-83756/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

### Analysis Batch: 83773

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-1 | SP- 1 1' | Soluble | Solid | 300.0 | 83714 |

# QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## HPLC/IC (Continued)

### Analysis Batch: 83773 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-2 | SP- 1 3' | Soluble | Solid | 300.0 | 83714 |
| 880-45026-3 | SP- 2 1' | Soluble | Solid | 300.0 | 83714 |
| 880-45026-4 | SP- 3 0.5' | Soluble | Solid | 300.0 | 83714 |
| 880-45026-5 | SP- 4 0.5' | Soluble | Solid | 300.0 | 83714 |
| 880-45026-6 | SP- 5 1' | Soluble | Solid | 300.0 | 83714 |
| 880-45026-7 | SP- 6 1' | Soluble | Solid | 300.0 | 83714 |
| 880-45026-8 | SP- 6 2' | Soluble | Solid | 300.0 | 83714 |
| 880-45026-9 | SP- 7 0.5' | Soluble | Solid | 300.0 | 83714 |
| 880-45026-10 | SP- 8 0.5' | Soluble | Solid | 300.0 | 83714 |
| 880-45026-11 | SP- 9 0.5' | Soluble | Solid | 300.0 | 83714 |
| MB 880-83714/1-A | Method Blank | Soluble | Solid | 300.0 | 83714 |
| LCS 880-83714/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 83714 |
| LCSD 880-83714/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 83714 |
| 880-45026-2 MS | SP- 1 3' | Soluble | Solid | 300.0 | 83714 |
| 880-45026-2 MSD | SP- 1 3' | Soluble | Solid | 300.0 | 83714 |

### Analysis Batch: 83801

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-45026-12 | SP- 10 0.5' | Soluble | Solid | 300.0 | 83756 |
| MB 880-83756/1-A | Method Blank | Soluble | Solid | 300.0 | 83756 |
| LCS 880-83756/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 83756 |
| LCSD 880-83756/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 83756 |

# Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## Client Sample ID: SP- 1 1' — Lab Sample ID: 880-45026-1

**Date Collected: 06/18/24 11:10** **Matrix: Solid**
**Date Received: 06/20/24 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 | | | 5.00 g | 5 mL | 83703 | 06/20/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 83725 | 06/20/24 17:18 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 83839 | 06/20/24 17:18 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 83966 | 06/22/24 00:16 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.05 g | 10 mL | 83672 | 06/20/24 08:58 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 83752 | 06/22/24 00:16 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 83714 | 06/20/24 11:12 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 10 | 50 mL | 50 mL | 83773 | 06/21/24 10:14 | CH | EET MID |

## Client Sample ID: SP- 1 3' — Lab Sample ID: 880-45026-2

**Date Collected: 06/18/24 11:40** **Matrix: Solid**
**Date Received: 06/20/24 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 | 83703 | 06/20/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 83725 | 06/20/24 17:38 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 83839 | 06/20/24 17:38 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 83966 | 06/22/24 00:37 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 83672 | 06/20/24 08:58 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 83752 | 06/22/24 00:37 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 83714 | 06/20/24 11:12 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 5 | 50 mL | 50 mL | 83773 | 06/21/24 10:19 | CH | EET MID |

## Client Sample ID: SP- 2 1' — Lab Sample ID: 880-45026-3

**Date Collected: 06/18/24 12:20** **Matrix: Solid**
**Date Received: 06/20/24 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 | 83703 | 06/20/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 83725 | 06/20/24 17:59 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 83839 | 06/20/24 17:59 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 83966 | 06/22/24 00:57 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 83672 | 06/20/24 08:58 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 83752 | 06/22/24 00:57 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 83714 | 06/20/24 11:12 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 10 | 50 mL | 50 mL | 83773 | 06/21/24 10:34 | CH | EET MID |

## Client Sample ID: SP- 3 0.5' — Lab Sample ID: 880-45026-4

**Date Collected: 06/18/24 12:50** **Matrix: Solid**
**Date Received: 06/20/24 09:20**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 83703 | 06/20/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 83725 | 06/20/24 18:19 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 83839 | 06/20/24 18:19 | SM | EET MID |

Eurofins Midland

# Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## Client Sample ID: SP- 3 0.5' Lab Sample ID: 880-45026-4

**Date Collected: 06/18/24 12:50** **Matrix: Solid**
**Date Received: 06/20/24 09:20**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 83966 | 06/22/24 01:18 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 83672 | 06/20/24 08:58 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 83752 | 06/22/24 01:18 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 83714 | 06/20/24 11:12 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 50 | 50 mL | 50 mL | 83773 | 06/21/24 10:39 | CH | EET MID |

## Client Sample ID: SP- 4 0.5' Lab Sample ID: 880-45026-5

**Date Collected: 06/18/24 13:45** **Matrix: Solid**
**Date Received: 06/20/24 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 | 83703 | 06/20/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 83725 | 06/20/24 18:39 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 83839 | 06/20/24 18:39 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 83966 | 06/22/24 01:37 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.05 g | 10 mL | 83672 | 06/20/24 08:58 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 83752 | 06/22/24 01:37 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 83714 | 06/20/24 11:12 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 20 | 50 mL | 50 mL | 83773 | 06/21/24 10:54 | CH | EET MID |

## Client Sample ID: SP- 5 1' Lab Sample ID: 880-45026-6

**Date Collected: 06/18/24 14:20** **Matrix: Solid**
**Date Received: 06/20/24 09:20**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 83703 | 06/20/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 83725 | 06/20/24 19:00 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 83839 | 06/20/24 19:00 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 83966 | 06/22/24 02:43 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 83672 | 06/20/24 08:58 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 83752 | 06/22/24 02:43 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 83714 | 06/20/24 11:12 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 10 | 50 mL | 50 mL | 83773 | 06/21/24 10:59 | CH | EET MID |

## Client Sample ID: SP- 6 1' Lab Sample ID: 880-45026-7

**Date Collected: 06/18/24 15:00** **Matrix: Solid**
**Date Received: 06/20/24 09:20**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 83703 | 06/20/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 83725 | 06/20/24 19:20 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 83839 | 06/20/24 19:20 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 83966 | 06/22/24 03:04 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 83672 | 06/20/24 08:58 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 83752 | 06/22/24 03:04 | SM | EET MID |

# Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

## Client Sample ID: SP- 6 1' Lab Sample ID: 880-45026-7

**Date Collected: 06/18/24 15:00** **Matrix: Solid**
**Date Received: 06/20/24 09:20**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 83714 | 06/20/24 11:12 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 10 | 50 mL | 50 mL | 83773 | 06/21/24 11:04 | CH | EET MID |

## Client Sample ID: SP- 6 2' Lab Sample ID: 880-45026-8

**Date Collected: 06/18/24 15:20** **Matrix: Solid**
**Date Received: 06/20/24 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 | | | 5.00 g | 5 mL | 83703 | 06/20/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 83725 | 06/20/24 19:41 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 83839 | 06/20/24 19:41 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 83966 | 06/22/24 03:24 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 83672 | 06/20/24 08:58 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 83752 | 06/22/24 03:24 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 83714 | 06/20/24 11:12 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 10 | 50 mL | 50 mL | 83773 | 06/21/24 11:09 | CH | EET MID |

## Client Sample ID: SP- 7 0.5' Lab Sample ID: 880-45026-9

**Date Collected: 06/19/24 10:05** **Matrix: Solid**
**Date Received: 06/20/24 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 | 83703 | 06/20/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 83725 | 06/20/24 20:01 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 83839 | 06/20/24 20:01 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 83966 | 06/22/24 03:45 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 83672 | 06/20/24 08:58 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 83752 | 06/22/24 03:45 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 83714 | 06/20/24 11:12 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 10 | 50 mL | 50 mL | 83773 | 06/21/24 11:14 | CH | EET MID |

## Client Sample ID: SP- 8 0.5' Lab Sample ID: 880-45026-10

**Date Collected: 06/19/24 10:15** **Matrix: Solid**
**Date Received: 06/20/24 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 | 83703 | 06/20/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 83725 | 06/20/24 20:22 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 83839 | 06/20/24 20:22 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 83966 | 06/22/24 10:12 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 83734 | 06/20/24 15:41 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 83869 | 06/22/24 10:12 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 83714 | 06/20/24 11:12 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 10 | 50 mL | 50 mL | 83773 | 06/21/24 11:19 | CH | EET MID |

# Lab Chronicle

Client: Larson & Associates, Inc.
Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill
SDG: 24-0117-01

## Client Sample ID: SP- 9 0.5'
**Lab Sample ID: 880-45026-11**
**Date Collected: 06/19/24 10:30**
**Matrix: Solid**
**Date Received: 06/20/24 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 | | | 5.05 g | 5 mL | 83703 | 06/20/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 83725 | 06/20/24 21:45 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 83839 | 06/20/24 21:45 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 83966 | 06/22/24 11:13 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.05 g | 10 mL | 83734 | 06/20/24 15:41 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 83869 | 06/22/24 11:13 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 83714 | 06/20/24 11:12 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 10 | 50 mL | 50 mL | 83773 | 06/21/24 11:24 | CH | EET MID |

## Client Sample ID: SP- 10 0.5'
**Lab Sample ID: 880-45026-12**
**Date Collected: 06/19/24 10:45**
**Matrix: Solid**
**Date Received: 06/20/24 09:20**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 83703 | 06/20/24 10:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 83725 | 06/20/24 22:06 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 83839 | 06/20/24 22:06 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 83966 | 06/22/24 11:33 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 83734 | 06/20/24 15:41 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 83869 | 06/22/24 11:33 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 83756 | 06/21/24 07:44 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 10 | 50 mL | 50 mL | 83801 | 06/22/24 13:55 | CH | EET MID |

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill
SDG: 24-0117-01

## 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 | 06-30-24 |

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

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

# Method Summary

Client: Larson & Associates, Inc. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

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

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

# Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Chameleon State Com 2nd Spill

Job ID: 880-45026-1
SDG: 24-0117-01

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-45026-1 | SP- 1 1' | Solid | 06/18/24 11:10 | 06/20/24 09:20 |
| 880-45026-2 | SP- 1 3' | Solid | 06/18/24 11:40 | 06/20/24 09:20 |
| 880-45026-3 | SP- 2 1' | Solid | 06/18/24 12:20 | 06/20/24 09:20 |
| 880-45026-4 | SP- 3 0.5' | Solid | 06/18/24 12:50 | 06/20/24 09:20 |
| 880-45026-5 | SP- 4 0.5' | Solid | 06/18/24 13:45 | 06/20/24 09:20 |
| 880-45026-6 | SP- 5 1' | Solid | 06/18/24 14:20 | 06/20/24 09:20 |
| 880-45026-7 | SP- 6 1' | Solid | 06/18/24 15:00 | 06/20/24 09:20 |
| 880-45026-8 | SP- 6 2' | Solid | 06/18/24 15:20 | 06/20/24 09:20 |
| 880-45026-9 | SP- 7 0.5' | Solid | 06/19/24 10:05 | 06/20/24 09:20 |
| 880-45026-10 | SP- 8 0.5' | Solid | 06/19/24 10:15 | 06/20/24 09:20 |
| 880-45026-11 | SP- 9 0.5' | Solid | 06/19/24 10:30 | 06/20/24 09:20 |
| 880-45026-12 | SP- 10 0.5' | Solid | 06/19/24 10:45 | 06/20/24 09:20 |

45026

NO. 2356

# CHAIN-OF-CUSTODY

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

DATE: 6-20-2024 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Chameleon State Com 2nd spill

LAI PROJECT #: 24-0117-01 COLLECTOR: DSG

Data Reported to: Daniel St Germain

TRRP report? ☐ Yes ☒ No

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

TIME ZONE: Time zone/State: NM/MST

| Field Sample I.D | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | ICE | UNPRESSERVED | ANALYSES: BTEX | MTBE | TRPH 418.1 | TPH 1005 | TPH 1006 | GASOLINE MOD 8015 | DIESEL - MOD 8015 | OIL - MOD 8015 | VOC 8260 | SVOC 8270 | PAH 8270 | HOLDPAH | 8081 PESTICIDES | 8151 HERBICIDES | 8082 PCBS | TCLP - METALS (RCRA) | TCLP VOC | TCLP - PEST | HERB | Semi-VOC | TOTAL METALS (RCRA) | OTHER LIST | LEAD - TOTAL | D.W. 200.8 | TCLP | RCI | TOX | FLASHPOINT | TDS | TSS | % MOISTURE | CYANIDE | pH | HEXAVALENT CHROMIUM | EXPLOSIVES | PECHLORATE | CHLORIDE | ANIONS | ALKALINITY | FIELD NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SP-1 1' | | 6/18 | 11:10 | S | 1 | | | | | X | | X | | X | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP-1 3' | | " | 11:40 | S | " | | | | | " | | " | | " | | | " | " | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP-2 1' | | " | 12:20 | S | " | | | | | " | | " | | " | | | " | " | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP-3 0.5' | | " | 12:50 | S | " | | | | | " | | " | | " | | | " | " | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP-4 0.5' | | " | 13:45 | S | " | | | | | " | | " | | " | | | " | " | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP-5 1' | | " | 14:20 | S | " | | | | | " | | " | | " | | | " | " | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP-6 1' | | " | 15:00 | S | " | | | | | " | | " | | " | | | " | " | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP-6 2' | | " | 15:20 | S | " | | | | | " | | " | | " | | | " | " | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP-7 0.5' | | 6/19 | 10:05 | S | " | | | | | " | | " | | " | | | " | " | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP-8 0.5' | | " | 10:15 | S | " | | | | | " | | " | | " | | | " | " | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP-9 0.5' | | " | 10:30 | S | " | | | | | " | | " | | " | | | " | " | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SP-10 0.5' | | " | 10:45 | S | " | | | | | " | | " | | " | | | " | " | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

880-45026 Chain of Custody

TOTAL 12

| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) |
|---|---|---|
| | 6/20 9:20 | |
| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) |
| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) |
| LABORATORY: | | |

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

LABORATORY USE ONLY:
RECEIVING TEMP 3.6 S THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

# Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-45026-1
SDG Number: 24-0117-01

**Login Number: 45026**
**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 | |

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

QUESTIONS

Action 366064

## QUESTIONS

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>366064 |
| | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

| **Prerequisites** | |
|---|---|
| Incident ID (n#) | **nAPP2407138431** |
| Incident Name | **NAPP2407138431 CHAMAELEON BIN STATE COM BATTERY @ 0** |
| Incident Type | **Produced Water Release** |
| 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 | 03/10/2024 |
| Surface Owner | State |

| **Incident Details** | |
|---|---|
| *Please answer all the questions in this group.* | |
| Incident Type | Produced Water Release |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

| **Nature and Volume of Release** | |
|---|---|
| *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.* | |
| Crude Oil Released (bbls) Details | Cause: Corrosion \| Tank (Any) \| Crude Oil \| Released: 1 BBL \| Recovered: 1 BBL \| Lost: 0 BBL. |
| Produced Water Released (bbls) Details | Cause: Corrosion \| Tank (Any) \| Produced Water \| Released: 5 BBL \| Recovered: 5 BBL \| Lost: 0 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | Yes |
| Condensate Released (bbls) Details | *Not answered.* |
| Natural Gas Vented (Mcf) Details | *Not answered.* |
| Natural Gas Flared (Mcf) Details | *Not answered.* |
| Other Released Details | *Not answered.* |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | *Not answered.* |

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# State of New Mexico
# Energy, Minerals and Natural Resources
# Oil Conservation Division
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## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>366064 |
| | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

| **Nature and Volume of Release (continued)** | |
|---|---|
| Is this a gas only submission (i.e. only significant Mcf values reported) | **No, according to supplied volumes this does not appear to be a "gas only" report.** |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | **No** |
| Reasons why this would be considered a submission for a notification of a major release | *Unavailable.* |
| *With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.* | |

| **Initial Response** | |
|---|---|
| *The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.* | |
| The source of the release has been stopped | True |
| The impacted area has been secured to protect human health and the environment | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately | True |
| If all the actions described above have not been undertaken, explain why | *Not answered.* |
| *Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.* | |

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

| | |
|---|---|
| I hereby agree and sign off to the above statement | Name: Amy Barnhill<br>Title: Waste & Water Specialist<br>Email: ABarnhill@chevron.com<br>Date: 07/22/2024 |

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# Energy, Minerals and Natural Resources
# Oil Conservation Division
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# Santa Fe, NM 87505



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>366064 |
| | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

| **Site Characterization** | |
|---|---|
| *Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.* | |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 26 and 50 (ft.) |
| What method was used to determine the depth to ground water | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water | No |
| **What is the minimum distance, between the closest lateral extents of the release and the following surface areas:** | |
| A continuously flowing watercourse or any other significant watercourse | Greater than 5 (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Between 1 and 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Greater than 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between 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 |

| **Remediation Plan** | | |
|---|---|---|
| *Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.* | | |
| Requesting a remediation plan approval with this submission | | Yes |
| *Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.* | | |
| Have the lateral and vertical extents of contamination been fully delineated | | Yes |
| Was this release entirely contained within a lined containment area | | No |
| **Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.) | | |
| Chloride | (EPA 300.0 or SM4500 Cl B) | 16800 |
| TPH (GRO+DRO+MRO) | (EPA SW-846 Method 8015M) | 1120 |
| GRO+DRO | (EPA SW-846 Method 8015M) | 1120 |
| BTEX | (EPA SW-846 Method 8021B or 8260B) | 0 |
| Benzene | (EPA SW-846 Method 8021B or 8260B) | 0 |
| | | |
| *Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.* | | |
| On what estimated date will the remediation commence | | 08/22/2024 |
| On what date will (or did) the final sampling or liner inspection occur | | 09/22/2024 |
| On what date will (or was) the remediation complete(d) | | 10/01/2024 |
| 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 | | 4600 |
| What is the estimated volume (in cubic yards) that will be remediated | | 540 |
| *These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.* | | |
| *The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.* | | |

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## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323 |
| | Action Number:<br>366064 |
| | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

| | |
|---|---|
| **Remediation Plan (continued)** | |
| *Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.* | |
| **This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:** | |
| *(Select all answers below that apply.)* | |
| (Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.) | Yes |
| Which OCD approved facility will be used for **off-site** disposal | LEA LAND LANDFILL [fEEM0112342028] |
| **OR** which OCD approved well (API) will be used for **off-site** disposal | *Not answered.* |
| **OR** is the **off-site** disposal site, to be used, out-of-state | *Not answered.* |
| **OR** is the **off-site** disposal site, to be used, an NMED facility | *Not answered.* |
| (Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms) | *Not answered.* |
| (In Situ) Soil Vapor Extraction | *Not answered.* |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | *Not answered.* |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | *Not answered.* |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | *Not answered.* |
| Ground Water Abatement pursuant to 19.15.30 NMAC | *Not answered.* |
| OTHER (Non-listed remedial process) | *Not answered.* |
| *Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.* | |
| | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| I hereby agree and sign off to the above statement | Name: Amy Barnhill<br>Title: Waste & Water Specialist<br>Email: ABarnhill@chevron.com<br>Date: 07/22/2024 |
| *The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.* | |

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## QUESTIONS (continued)

| | |
|---|---|
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| | Action Number:<br>366064 |
| | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

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

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## QUESTIONS (continued)

| | |
|---|---|
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| | Action Number:<br>366064 |
| | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

| **Sampling Event Information** | |
|---|---|
| Last sampling notification (C-141N) recorded | **334297** |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | **04/19/2024** |
| What was the (estimated) number of samples that were to be gathered | **25** |
| What was the sampling surface area in square feet | **5000** |

| **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 366064

## CONDITIONS

| Operator: | OGRID: |
|---|---|
| CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | 4323 |
| | Action Number:<br>366064 |
| | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| rhamlet | The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. The release area will need confirmation floor/sidewall samples representing no more than 200 ft2. The work will need to occur in 90 days after the report has been reviewed. Please read below for clarification on collecting background samples. | 8/12/2024 |
| rhamlet | XII. OBTAINING BACKGROUND DATA: The rule speaks of “background” chloride concentrations in three places: 19.15.29.11(A)(5)(c) NMAC regarding unknown or large volume releases, as a footnote to Table I, and in 19.15.29.13(D)(1) NMAC regarding reclamation. How would a responsible party obtain information to determine background? A grab, not composite, sample(s) should be gathered in areas undisturbed by oil and gas activities, nominally uphill from the release area, and no closer than 50 feet but no farther than 100 feet from the lateral and horizontal extents of a release’s impact. The background sampling should be representative of the entire horizontal and vertical extent of the release. Other means may be acceptable to OCD, but only after review and a written determination. | 8/12/2024 |
| rhamlet | Generally, the OCD likes to see at least 3 background samples obtained. As far as the part about being “representative of the entire horizontal and vertical extent of the release”, the depth of the contaminants should be used as a gauge. If you believe the contaminants are estimated to be 4 feet deep, collect samples for chlorides in 1-foot increments down to 4 feet. The three background numbers at a depth of 1-foot should be averaged. The three background numbers at a depth of 2 feet should be averaged and so on. The composite numbers will be used for the final background numbers. | 8/12/2024 |