Incident ID: nAPP2407138431
REMEDIATION AND CLOSURE REPORT
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

November 4, 2024

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

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 201
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1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this remediation and closure report on behalf of Chevron USA Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (NMOCD) District II for a produced water release 2nd spill 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 32.03553, -103.63817. 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 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

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

2.0 REMEDIATION PLAN

The remediation plan was outlined in the report titled, *Delineation Report and Remediation Plan, Chamaeleon BIN State Com Battery – Spill 2, Eddy County, New Mexico*. The report recommended the following remedial actions:

- 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 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.
- 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.
- 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.

The remediation plan was approved with the following conditions: (1) bottom samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC, based on site assessment, characterization, or proven depth to water determination. (2) Sidewall samples should be collected from the sidewall of the excavation and be delineated/excavated to 600 mg/kg for chloride and 100 mg/kg for TPH to define the edge of the release. (3) Bottom/sidewall samples should represent no more than 200 square feet. (4) The work will need to be completed 90 days after the report has been reviewed. Figure 2 presents an aerial map with delineation sample locations and proposed excavation areas. Appendix D presents NMCOD communications.

3.0 DELINEATION

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.

The samples were delivered under chain-of-custody and preservation to Eurofins and 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. 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

On October 9 and 24, 2024, LAI personnel collected delineation point samples with a stainless-steel hand trowel from locations SP-2 through SP-6, SP-8, SP-10, SP-11, and SP-12 after the release area was excavated using hydro-excavation equipment, at depths ranging between 0.5 and 2.5 feet bgs. The samples were delivered under chain-of-custody and preservation to Eurofins and subsequently reported below delineations limits of 10 mg/Kg, 50 mg/Kg, 100 mg/Kg, and 600 mg/Kg for benzene, BTEX, TPH, and chloride, respectfully. Laboratory analysis demonstrates that the release was fully delineated to most restrictive delineation standards in Table I of 19.15.29.12 NMAC. Table 1 presents the delineation soil sample analytical data table. Figure 2 presents aerial map delineation soil sample locations. Appendix E presents the laboratory reports.

4.0 REMEDIATION

Between September 30 and October 10, 2024, Warrior Technologies (Warrior), under the guidance of LAI personnel removed approximately 85 cubic yards of impacted soil from an area of about 1,572 square feet using hydro-excavation methods. The hydrovac media was disposed of at the R360 Red Bluff Facility in Reeves County, Texas.

On October 9, 2024, LAI personnel collected 18 confirmation samples (C-1 through C-18) from the bottom and sidewalls of the excavation at depths between 1 and 2.5 feet bgs. Final sampling notice was submitted to the NMOCD on October 6, 2024. The confirmation soil samples were delivered under chain-of-custody and preservation to Eurofins in Midland, Texas. The samples were analyzed for benzine, BTEX, TPH, and chloride using the aforementioned analytical methods. Eurofins reported that all samples were below NMOCD closure criteria for benzene (10 mg/Kg), BTEX (50 mg/Kg), TPH (100 mg/Kg), and chloride (600 mg/Kg).

Laboratory analysis demonstrates that benzene, BTEX, TPH, and chloride were remediated below the most restrictive NMOCD closure standards listed in Table 1 of 19.15.29 NMAC, in all samples collected from the excavation. Table 2 presents the confirmation sample analytical summary. Figure 3 presents an aerial map with the excavation areas and confirmation sample locations. Appendix E presents the laboratory reports.

On October 14, 2024, LAI personnel collect three composite backfill samples (BF-1 through BF-3) from a borrow pit located in Unit N, Section 2, Township 26 South, Range 27 East, in Eddy County, New Mexico. The samples were analyzed by Eurofins and were reported below the analytical method reporting limit for benzene, BTEX, and TPH. Chloride concentrations ranged between 125 mg/Kg (BF-1) and 161 mg/Kg (BF-2), below the NMOCD requirements prescribed in 19.15.29.13D(1) NMAC.

Between October 24 and October 28, 2024, Apeck Construction (Apeck) backfilled the excavation with the non-waste containing backfill material collected from the nearby borrow pit. On October 29, 2024, Akome Inc. (Akome) replaced/repaired the damaged liner with a 40-mil woven felt backed liner. Table 3 presents the backfill sample analytical summary. Appendix E presents the laboratory reports. Appendix F presents photographic documentation.

5.0 CLOSURE REQUEST

Chevron requests closure for nAPP2407138431.

Tables

Table 1

Delineation Soil Sample Analytical Data Summary

Chamaeleon BIN State Com Battery

Eddy, New Mexico

32.01964, -104.14108

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-01	1	06/18/2024	In-situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	**733**
SP-01	3	06/18/2024	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**294**
SP-02	1	06/18/2024	In-situ	<0.00201	<0.00402	<50.0	**665**	<50.0	**665**	**520**
SP-02	1.5	10/10/2024	In-situ	<0.00200	<0.00399	<50.0	**97.2**	<50.0	**97.2**	**49.5**
SP-03	0.5	06/18/2024	In-situ	<0.00200	<0.00399	<49.7	**1120**	<49.7	**1120**	**16,800**
SP-03	1	10/10/2024	In-situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	**117**
SP-04	0.5	06/18/2024	In-situ	<0.00199	0.0124	<49.8	**149**	<49.8	**149**	**4,200**
SP-04	1	10/10/2024	In-situ	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	**72.8**
SP-05	1	06/18/2024	In-situ	<0.00201	0.0615	<49.8	<49.8	<49.8	<49.8	**2,070**
SP-05	1.5	10/10/2024	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**93.7**
SP-06	1	06/18/2024	In-situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	**1,190**
SP-06	2	06/18/2024	In-situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	**1,070**
SP-06	2.5	10/09/2024	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**50.3**
SP-07	0.5	06/19/2024	In-situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**501**
SP-08	0.5	06/19/2024	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**841**
SP-08	1	10/09/2024	In-situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	**86.7**
SP-09	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**
SP-10	1	10/09/2024	In-situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	**29.5**
SP-11	0.5	10/25/2024	In-situ	<0.00204	<0.00407	<50.0	<50.0	<50.0	<50.0	**14.7**
SP-12	0.5	10/25/2024	In-situ	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	**39.2**

Table 1

Delineation Soil Sample Analytical Data Summary

Chamaeleon BIN State Com Battery

Eddy, New Mexico

32.01964, -104.14108

Sample ID	Depth Feet	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limits:				***10***	***50***				***100***	***600***

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

Table 2
Confirmation Soil Sample Analytical Data Summary
Chamaeleon BIN State Com Battery - Spill 2
Eddy County, New Mexico
32.01964, -104.14108

Sample ID	Location	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)
Closure Criteria:					*10*	*50*				*100*	*600*
C-1	1	Bottom	10/09/2024	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**535**
C-2	0-1	Sidewall	10/09/2024	In-situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**143**
C-3	1	Bottom	10/09/2024	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**251**
C-4	0-1	Sidewall	10/09/2024	In-situ	<0.00199	<0.00398	<49.8	**82.6**	<49.8	**82.6**	**207**
C-5	1.5	Bottom	10/09/2024	In-situ	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	**115**
C-6	0-1.5	Sidewall	10/09/2024	In-situ	<0.00198	<0.00397	<49.7	<49.7	<49.7	<49.7	**75.7**
C-7	1.5	Bottom	10/09/2024	In-situ	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	**72.0**
C-8	0-1.5	Sidewall	10/09/2024	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**24.8**
C-9	1	Bottom	10/09/2024	In-situ	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	**85.0**
C-10	0-1	Sidewall	10/09/2024	In-situ	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	**98.2**
C-11	1	Bottom	10/09/2024	In-situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	**129**
C-12	0-1	Sidewall	10/09/2024	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**20.2**
C-13	1	Bottom	10/09/2024	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**22.7**
C-14	0-1	Sidewall	10/09/2024	In-situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	**404**
C-15	1	Bottom	10/09/2024	In-situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	**148**
C-16	0-1	Sidewall	10/09/2024	In-situ	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	**199**
C-17	1	Bottom	10/09/2024	In-situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	**22.3**
C-18	0-1	Sidewall	10/09/2024	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**11.5**

Table 2
Confirmation Soil Sample Analytical Data Summary
Chamaeleon BIN State Com Battery - Spill 2
Eddy County, New Mexico
32.01964, -104.14108

Sample ID	Location	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)
Closure Criteria:					***10***	***50***				***100***	***600***

Notes:

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

mg/Kg: milligrams per kilogram; equivalent to parts per million (ppm).
BTEX: benzene, toluene, ethylbenzene, xylene
TPH: total petroleum hydrocarbons
GRO: gasoline range organics (C1-C10)
DRO: diesel range organics (>C10-C28)
ORO: oil range organics (>C28-C36)
<: indicates that parameter concentration is below method analytical reporting limit.
Bold and highlighted indicates parameter concentration is above NMOCD closure criteria.

Figures

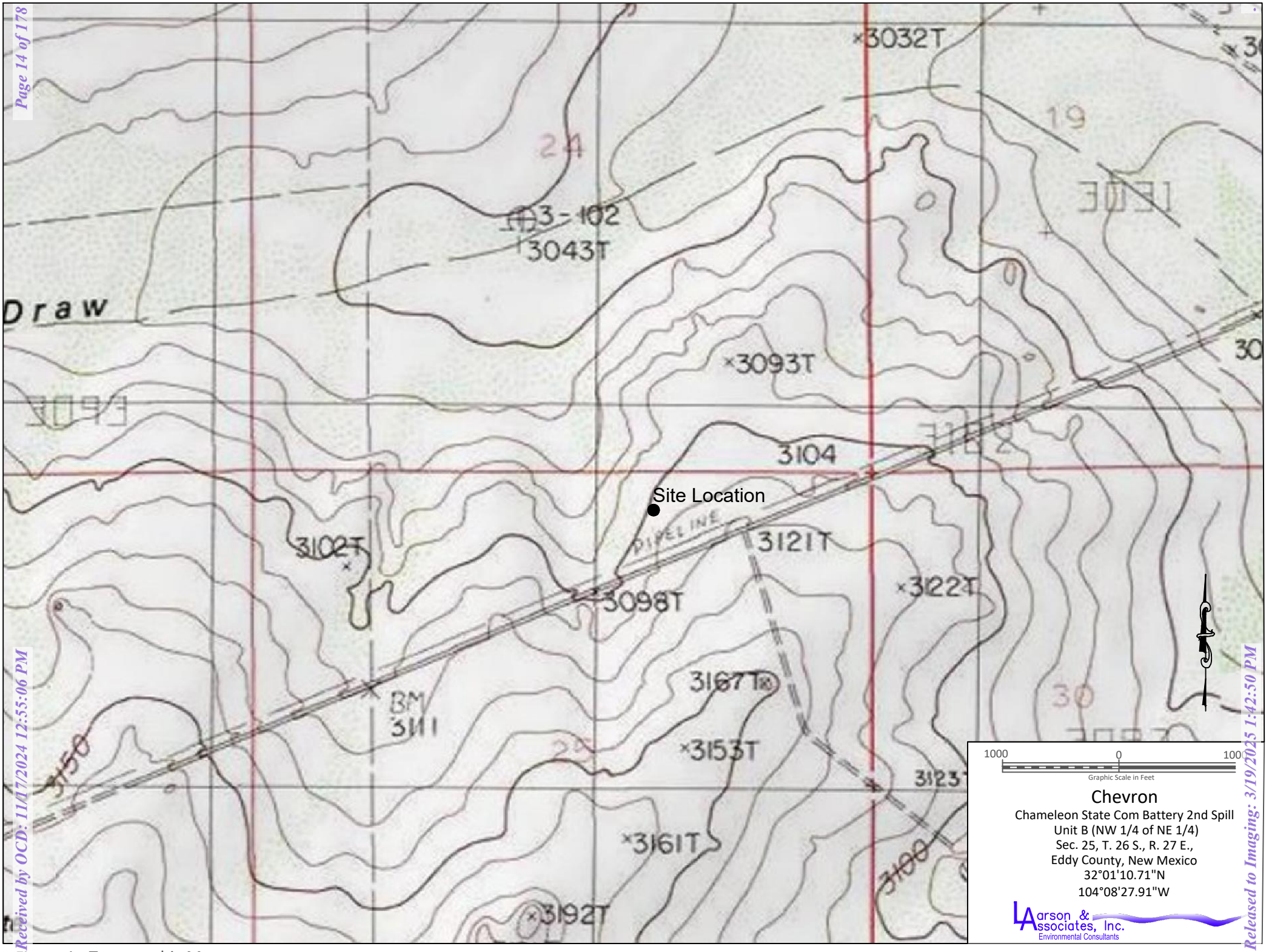

Figure 1 - Topographic Map

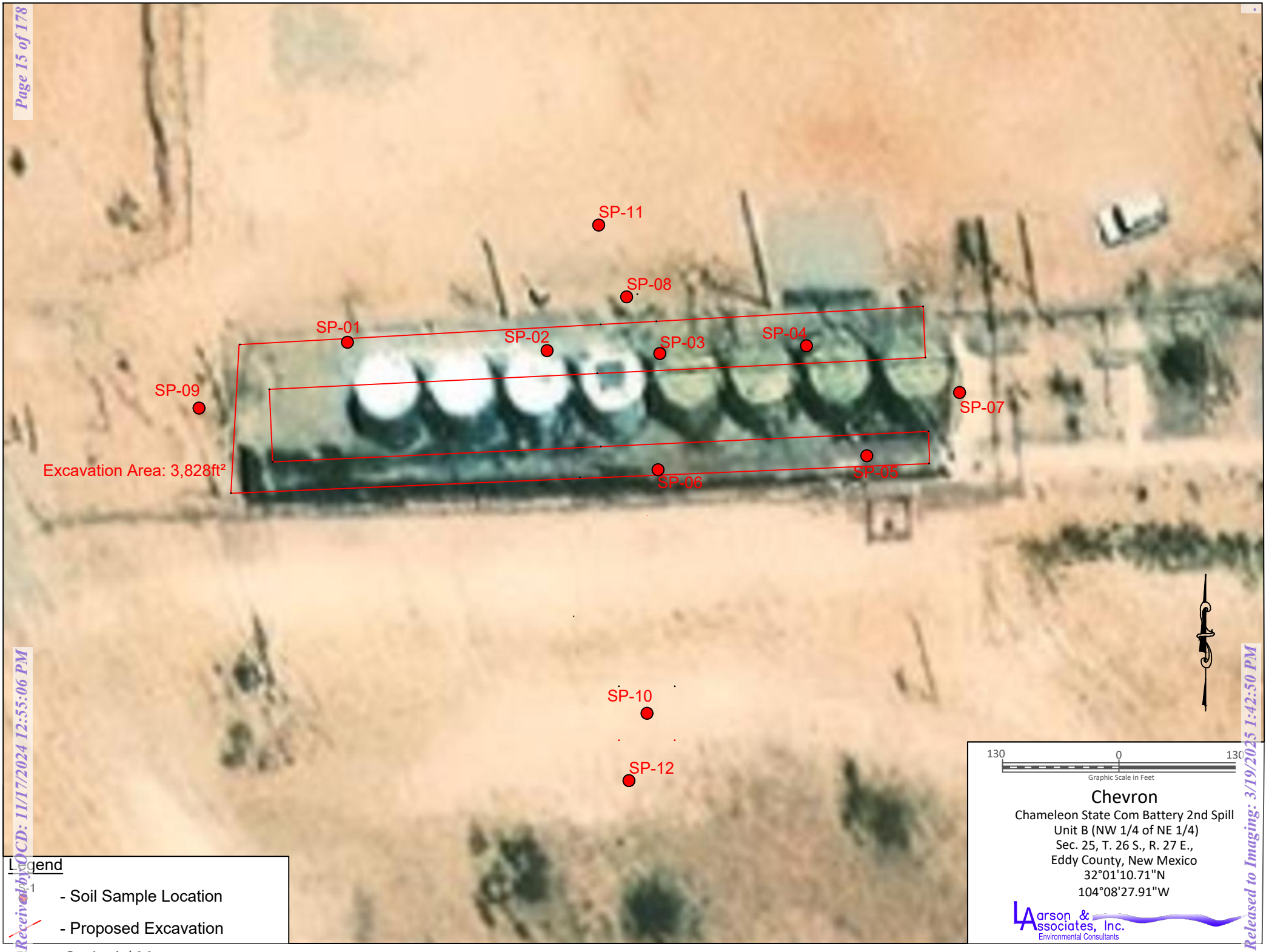

Figure 2 - Aerial Map

Figure 3 - Aerial Map Showing Excavation Areas and Confirmation Sample Locations

Appendix A

Initial C-141

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: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 323984
	Action Type: [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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Santa Fe, NM 87505

QUESTIONS (continued)

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

QUESTIONS

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

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

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

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

District I
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Phone:(575) 393-6161 Fax:(575) 393-0720
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QUESTIONS (continued)

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

QUESTIONS

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

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

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

CONDITIONS

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

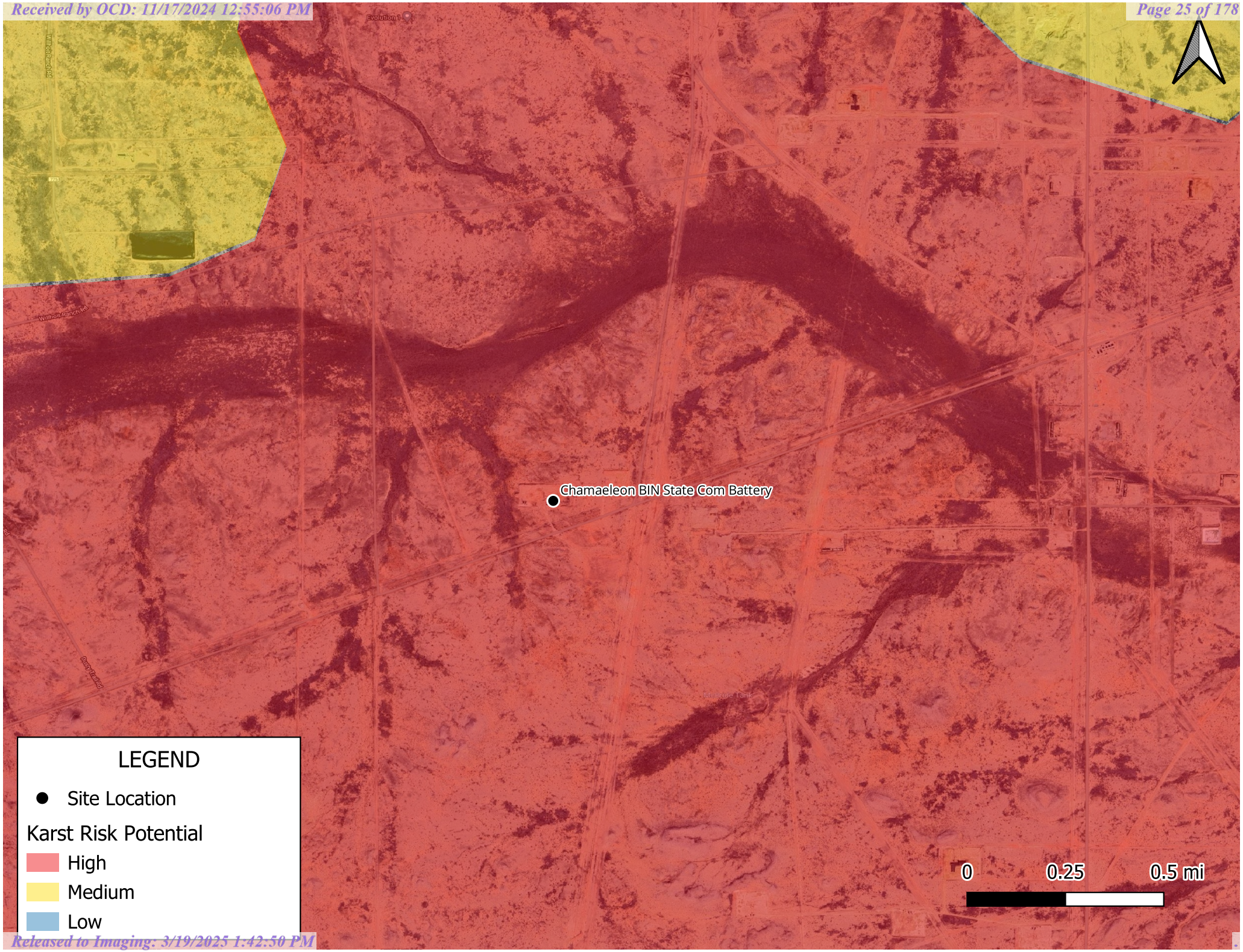
Area	Shape	Length (ft)	Width (ft)	Standing Depth (ft)	Soil Penetration (ft)	Standing Volume	In-Soil Volume	Total Volume
1	Rectangle	30.0	4.0	0.1667	0.0000	3.56	0.00	3.56
2	Rectangle	20.0	2.0	0.1667	0.0000	1.19	**0.00**	1.19
3	Rectangle	20.0	2.0	0.1667	0.0000	1.19	**0.00**	1.19
4								
5								
6								
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 Potential Map


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 27E 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

NMOCD Communications

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

Submission Information

Submission ID:	390219	**Districts:**	Artesia
Operator:	[4323] CHEVRON U S A INC	**Counties:**	Eddy
Description:	CHEVRON U S A INC [4323] , Chamaeleon BIN State Com Battery , nAPP2407138431		
Status:	APPROVED		
Status Date:	10/06/2024		
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	**Remediation Plan 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	4,600
What is the estimated number of samples that will be gathered	44
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/07/2024
Time sampling will commence	09:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Inderveer 432-313-1921
Please provide any information necessary for navigation to sampling site	Sampling will begin 10-7-24 and end 10-11-24 at the gps coordinates on the C-141

Acknowledgments

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

Comments

No comments found for this submission.

Conditions

Summary: *abarnhill (10/6/2024),* Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.2

Reasons

No reasons found for this submission.

Appendix E

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 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

Holly Taylor

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. Job ID: 880-45026-1
Project/Site: Chameleon State Com 2nd Spill SDG: 24-0117-01

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: 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'
Lab Sample ID: 880-45026-3
Date Collected: 06/18/24 12:20 **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 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

Eurofins Midland

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

Eurofins Midland

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

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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.
Project/Site: Chameleon State Com 2nd Spill

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

Client Sample ID: SP- 1 1'

Lab Sample ID: 880-45026-1
Matrix: Solid
Date Collected: 06/18/24 11:10
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
Matrix: Solid
Date Collected: 06/18/24 11:40
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
Matrix: Solid
Date Collected: 06/18/24 12:20
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
Matrix: Solid
Date Collected: 06/18/24 12:50
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

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	HNO3	H2SO4	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																												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	"					"		"		"			"	"	"																												"			

TOTAL 12

880-45026 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	6/20 9:20	[signature]
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 °C 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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/16/2024 2:18:57 PM

JOB DESCRIPTION

Chamaelon State Com Battery
24-0117-01

JOB NUMBER

880-49711-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

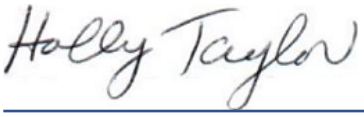
Eurofins Midland

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



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10/16/2024 2:18:57 PM

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

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Laboratory Job ID: 880-49711-1
SDG: 24-0117-01

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-49711-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, 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: 880-49711-1
Project: Chamaelon State Com Battery

Job ID: 880-49711-1 Eurofins Midland

Job Narrative
880-49711-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 10/11/2024 3:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SP-2 (880-49711-1), SP-3 (880-49711-2), SP-4 (880-49711-3), SP-5 (880-49711-4), SP-6 (880-49711-5), SP-8 (880-49711-6) and SP-10 (880-49711-7).

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 880-93136/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SP-2 (880-49711-1), SP-3 (880-49711-2), SP-4 (880-49711-3), SP-5 (880-49711-4), SP-6 (880-49711-5), SP-8 (880-49711-6) and SP-10 (880-49711-7). Percent recoveries are based on the amount spiked.

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: 880-49711-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: SP-2 Lab Sample ID: 880-49711-1

Date Collected: 10/10/24 12:11 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 11:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 11:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 11:36	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/14/24 09:57	10/15/24 11:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 11:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/24 09:57	10/15/24 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*10/14/24 09:57*	*10/15/24 11:36*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/14/24 09:57*	*10/15/24 11:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/15/24 11:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**97.2**		50.0		mg/Kg			10/14/24 22:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/11/24 15:58	10/14/24 22:35	1
Diesel Range Organics (Over C10-C28)	**97.2**		50.0		mg/Kg		10/11/24 15:58	10/14/24 22:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/24 15:58	10/14/24 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*62*	*S1-*	*70 - 130*	*10/11/24 15:58*	*10/14/24 22:35*	*1*
o-Terphenyl (Surr)	*65*	*S1-*	*70 - 130*	*10/11/24 15:58*	*10/14/24 22:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.5**		9.96		mg/Kg			10/14/24 17:41	1

Client Sample ID: SP-3 Lab Sample ID: 880-49711-2

Date Collected: 10/10/24 11:45 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 13:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 13:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 13:18	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/14/24 09:57	10/15/24 13:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 13:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/14/24 09:57	10/15/24 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*10/14/24 09:57*	*10/15/24 13:18*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/14/24 09:57*	*10/15/24 13:18*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49711-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: SP-3 Lab Sample ID: 880-49711-2

Date Collected: 10/10/24 11:45 **Matrix: Solid**
Date Received: 10/11/24 15:15

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/15/24 13:18	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			10/14/24 22:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/11/24 15:58	10/14/24 22:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/11/24 15:58	10/14/24 22:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/24 15:58	10/14/24 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*55*	*S1-*	*70 - 130*	*10/11/24 15:58*	*10/14/24 22:50*	*1*
o-Terphenyl (Surr)	*58*	*S1-*	*70 - 130*	*10/11/24 15:58*	*10/14/24 22:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**117**		9.94		mg/Kg			10/14/24 17:47	1

Client Sample ID: SP-4 Lab Sample ID: 880-49711-3

Date Collected: 10/10/24 11:10 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/24 09:57	10/15/24 13:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/24 09:57	10/15/24 13:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/24 09:57	10/15/24 13:39	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/14/24 09:57	10/15/24 13:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/24 09:57	10/15/24 13:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/24 09:57	10/15/24 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*10/14/24 09:57*	*10/15/24 13:39*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*10/14/24 09:57*	*10/15/24 13:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/15/24 13:39	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			10/14/24 23:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/11/24 15:58	10/14/24 23:05	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/11/24 15:58	10/14/24 23:05	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49711-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: SP-4 Lab Sample ID: 880-49711-3
Date Collected: 10/10/24 11:10 **Matrix: Solid**
Date Received: 10/11/24 15:15

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		10/11/24 15:58	10/14/24 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*25*	*S1-*	*70 - 130*	*10/11/24 15:58*	*10/14/24 23:05*	*1*
o-Terphenyl (Surr)	*23*	*S1-*	*70 - 130*	*10/11/24 15:58*	*10/14/24 23:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.8**		9.96		mg/Kg			10/14/24 17:52	1

Client Sample ID: SP-5 Lab Sample ID: 880-49711-4
Date Collected: 10/10/24 11:21 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/24 09:57	10/15/24 13:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/24 09:57	10/15/24 13:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/24 09:57	10/15/24 13:59	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/14/24 09:57	10/15/24 13:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/24 09:57	10/15/24 13:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/24 09:57	10/15/24 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*10/14/24 09:57*	*10/15/24 13:59*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/14/24 09:57*	*10/15/24 13:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/15/24 13:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/14/24 23:19	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		10/11/24 15:58	10/14/24 23:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/11/24 15:58	10/14/24 23:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/24 15:58	10/14/24 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*60*	*S1-*	*70 - 130*	*10/11/24 15:58*	*10/14/24 23:19*	*1*
o-Terphenyl (Surr)	*63*	*S1-*	*70 - 130*	*10/11/24 15:58*	*10/14/24 23:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.7**		9.92		mg/Kg			10/14/24 17:58	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49711-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: SP-6 Lab Sample ID: 880-49711-5

Date Collected: 10/09/24 13:00 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 17:37	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/14/24 09:57	10/15/24 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 17:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/24 09:57	10/15/24 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*10/14/24 09:57*	*10/15/24 17:37*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/14/24 09:57*	*10/15/24 17:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/15/24 17:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/14/24 23:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/11/24 15:58	10/14/24 23:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/11/24 15:58	10/14/24 23:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/24 15:58	10/14/24 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*60*	*S1-*	*70 - 130*	*10/11/24 15:58*	*10/14/24 23:35*	*1*
o-Terphenyl (Surr)	*63*	*S1-*	*70 - 130*	*10/11/24 15:58*	*10/14/24 23:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.3**		10.0		mg/Kg			10/14/24 18:03	1

Client Sample ID: SP-8 Lab Sample ID: 880-49711-6

Date Collected: 10/09/24 13:45 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/14/24 09:57	10/15/24 17:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/14/24 09:57	10/15/24 17:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/14/24 09:57	10/15/24 17:57	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		10/14/24 09:57	10/15/24 17:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/14/24 09:57	10/15/24 17:57	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/14/24 09:57	10/15/24 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*10/14/24 09:57*	*10/15/24 17:57*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/14/24 09:57*	*10/15/24 17:57*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49711-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: SP-8 Lab Sample ID: 880-49711-6

Date Collected: 10/09/24 13:45 **Matrix: Solid**
Date Received: 10/11/24 15:15

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/15/24 17:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/14/24 23:49	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	<49.9	U	49.9		mg/Kg		10/11/24 15:58	10/14/24 23:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/11/24 15:58	10/14/24 23:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/24 15:58	10/14/24 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*60*	*S1-*	*70 - 130*	*10/11/24 15:58*	*10/14/24 23:49*	*1*
o-Terphenyl (Surr)	*62*	*S1-*	*70 - 130*	*10/11/24 15:58*	*10/14/24 23:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.7**		9.90		mg/Kg			10/14/24 18:08	1

Client Sample ID: SP-10 Lab Sample ID: 880-49711-7

Date Collected: 10/09/24 13:30 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/14/24 09:57	10/15/24 18:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/14/24 09:57	10/15/24 18:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/14/24 09:57	10/15/24 18:18	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		10/14/24 09:57	10/15/24 18:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/14/24 09:57	10/15/24 18:18	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/14/24 09:57	10/15/24 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*10/14/24 09:57*	*10/15/24 18:18*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*10/14/24 09:57*	*10/15/24 18:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/15/24 18:18	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			10/15/24 00:04	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	<49.8	U	49.8		mg/Kg		10/11/24 15:58	10/15/24 00:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/11/24 15:58	10/15/24 00:04	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49711-1
SDG: 24-0117-01

Client Sample ID: SP-10
Date Collected: 10/09/24 13:30
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49711-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/24 15:58	10/15/24 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*75*		*70 - 130*	*10/11/24 15:58*	*10/15/24 00:04*	*1*
o-Terphenyl (Surr)	*78*		*70 - 130*	*10/11/24 15:58*	*10/15/24 00:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.5**		10.1		mg/Kg			10/14/24 18:14	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49711-1
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)										
880-49711-1	SP-2	111	102										
880-49711-1 MS	SP-2	105	102										
880-49711-1 MSD	SP-2	106	102										
880-49711-2	SP-3	110	101										
880-49711-3	SP-4	108	105										
880-49711-4	SP-5	109	101										
880-49711-5	SP-6	110	102										
880-49711-6	SP-8	108	101										
880-49711-7	SP-10	121	112										
LCS 880-93185/1-A	Lab Control Sample	100	101										
LCSD 880-93185/2-A	Lab Control Sample Dup	106	100										
MB 880-93185/5-A	Method Blank	107	98										

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)										
880-49711-1	SP-2	62 S1-	65 S1-										
880-49711-2	SP-3	55 S1-	58 S1-										
880-49711-3	SP-4	25 S1-	23 S1-										
880-49711-4	SP-5	60 S1-	63 S1-										
880-49711-5	SP-6	60 S1-	63 S1-										
880-49711-6	SP-8	60 S1-	62 S1-										
880-49711-7	SP-10	75	78										
LCS 880-93136/2-A	Lab Control Sample	88	126										
LCSD 880-93136/3-A	Lab Control Sample Dup	106	151 S1+										
MB 880-93136/1-A	Method Blank	77	86										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49711-1
SDG: 24-0117-01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-93185/5-A
Matrix: Solid
Analysis Batch: 93303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93185

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 11:14	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/14/24 09:57	10/15/24 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/24 09:57	10/15/24 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/14/24 09:57	10/15/24 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*10/14/24 09:57*	*10/15/24 11:14*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*10/14/24 09:57*	*10/15/24 11:14*	*1*

Lab Sample ID: LCS 880-93185/1-A
Matrix: Solid
Analysis Batch: 93303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93185

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09282		mg/Kg		93	70 - 130		
Toluene			0.100	0.08835		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.08832		mg/Kg		88	70 - 130		
m,p-Xylenes			0.200	0.1909		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09601		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-93185/2-A
Matrix: Solid
Analysis Batch: 93303

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93185

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09309		mg/Kg		93	70 - 130	0	35
Toluene			0.100	0.08903		mg/Kg		89	70 - 130	1	35
Ethylbenzene			0.100	0.08949		mg/Kg		89	70 - 130	1	35
m,p-Xylenes			0.200	0.1926		mg/Kg		96	70 - 130	1	35
o-Xylene			0.100	0.09666		mg/Kg		97	70 - 130	1	35

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

Lab Sample ID: 880-49711-1 MS
Matrix: Solid
Analysis Batch: 93303

Client Sample ID: SP-2
Prep Type: Total/NA
Prep Batch: 93185

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08766		mg/Kg		88	70 - 130		
Toluene	<0.00200	U	0.100	0.08217		mg/Kg		82	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49711-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

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

Lab Sample ID: 880-49711-1 MS **Client Sample ID: SP-2**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 93303 **Prep Batch: 93185**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07860		mg/Kg		79	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.1675		mg/Kg		84	70 - 130
o-Xylene	<0.00200	U	0.100	0.08432		mg/Kg		84	70 - 130

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

Lab Sample ID: 880-49711-1 MSD **Client Sample ID: SP-2**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 93303 **Prep Batch: 93185**

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	0.09108		mg/Kg		91	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.08496		mg/Kg		85	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.08225		mg/Kg		82	70 - 130	5	35
m,p-Xylenes	<0.00399	U	0.200	0.1756		mg/Kg		88	70 - 130	5	35
o-Xylene	<0.00200	U	0.100	0.08838		mg/Kg		88	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 880-93136/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 93283 **Prep Batch: 93136**

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		10/11/24 15:57	10/14/24 09:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/24 15:57	10/14/24 09:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/24 15:57	10/14/24 09:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*77*		*70 - 130*	*10/11/24 15:57*	*10/14/24 09:32*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*10/11/24 15:57*	*10/14/24 09:32*	*1*

Lab Sample ID: LCS 880-93136/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 93283 **Prep Batch: 93136**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	786.6		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)			1000	971.7		mg/Kg		97	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49711-1
SDG: 24-0117-01

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

Lab Sample ID: LCS 880-93136/2-A
Matrix: Solid
Analysis Batch: 93283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	126		70 - 130

Lab Sample ID: LCSD 880-93136/3-A
Matrix: Solid
Analysis Batch: 93283

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93136

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	884.8		mg/Kg		88	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1146		mg/Kg		115	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	151	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-93149/1-A
Matrix: Solid
Analysis Batch: 93243

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			10/14/24 15:32	1

Lab Sample ID: LCS 880-93149/2-A
Matrix: Solid
Analysis Batch: 93243

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	238.8		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-93149/3-A
Matrix: Solid
Analysis Batch: 93243

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	239.7		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-49711-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

GC VOA

Prep Batch: 93185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49711-1	SP-2	Total/NA	Solid	5035	
880-49711-2	SP-3	Total/NA	Solid	5035	
880-49711-3	SP-4	Total/NA	Solid	5035	
880-49711-4	SP-5	Total/NA	Solid	5035	
880-49711-5	SP-6	Total/NA	Solid	5035	
880-49711-6	SP-8	Total/NA	Solid	5035	
880-49711-7	SP-10	Total/NA	Solid	5035	
MB 880-93185/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-93185/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-93185/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49711-1 MS	SP-2	Total/NA	Solid	5035	
880-49711-1 MSD	SP-2	Total/NA	Solid	5035	

Analysis Batch: 93303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49711-1	SP-2	Total/NA	Solid	8021B	93185
880-49711-2	SP-3	Total/NA	Solid	8021B	93185
880-49711-3	SP-4	Total/NA	Solid	8021B	93185
880-49711-4	SP-5	Total/NA	Solid	8021B	93185
880-49711-5	SP-6	Total/NA	Solid	8021B	93185
880-49711-6	SP-8	Total/NA	Solid	8021B	93185
880-49711-7	SP-10	Total/NA	Solid	8021B	93185
MB 880-93185/5-A	Method Blank	Total/NA	Solid	8021B	93185
LCS 880-93185/1-A	Lab Control Sample	Total/NA	Solid	8021B	93185
LCSD 880-93185/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	93185
880-49711-1 MS	SP-2	Total/NA	Solid	8021B	93185
880-49711-1 MSD	SP-2	Total/NA	Solid	8021B	93185

Analysis Batch: 93367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49711-1	SP-2	Total/NA	Solid	Total BTEX	
880-49711-2	SP-3	Total/NA	Solid	Total BTEX	
880-49711-3	SP-4	Total/NA	Solid	Total BTEX	
880-49711-4	SP-5	Total/NA	Solid	Total BTEX	
880-49711-5	SP-6	Total/NA	Solid	Total BTEX	
880-49711-6	SP-8	Total/NA	Solid	Total BTEX	
880-49711-7	SP-10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 93136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49711-1	SP-2	Total/NA	Solid	8015NM Prep	
880-49711-2	SP-3	Total/NA	Solid	8015NM Prep	
880-49711-3	SP-4	Total/NA	Solid	8015NM Prep	
880-49711-4	SP-5	Total/NA	Solid	8015NM Prep	
880-49711-5	SP-6	Total/NA	Solid	8015NM Prep	
880-49711-6	SP-8	Total/NA	Solid	8015NM Prep	
880-49711-7	SP-10	Total/NA	Solid	8015NM Prep	
MB 880-93136/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93136/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-49711-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

GC Semi VOA (Continued)

Prep Batch: 93136 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-93136/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 93283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49711-1	SP-2	Total/NA	Solid	8015B NM	93136
880-49711-2	SP-3	Total/NA	Solid	8015B NM	93136
880-49711-3	SP-4	Total/NA	Solid	8015B NM	93136
880-49711-4	SP-5	Total/NA	Solid	8015B NM	93136
880-49711-5	SP-6	Total/NA	Solid	8015B NM	93136
880-49711-6	SP-8	Total/NA	Solid	8015B NM	93136
880-49711-7	SP-10	Total/NA	Solid	8015B NM	93136
MB 880-93136/1-A	Method Blank	Total/NA	Solid	8015B NM	93136
LCS 880-93136/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93136
LCSD 880-93136/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93136

Analysis Batch: 93382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49711-1	SP-2	Total/NA	Solid	8015 NM	
880-49711-2	SP-3	Total/NA	Solid	8015 NM	
880-49711-3	SP-4	Total/NA	Solid	8015 NM	
880-49711-4	SP-5	Total/NA	Solid	8015 NM	
880-49711-5	SP-6	Total/NA	Solid	8015 NM	
880-49711-6	SP-8	Total/NA	Solid	8015 NM	
880-49711-7	SP-10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 93149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49711-1	SP-2	Soluble	Solid	DI Leach	
880-49711-2	SP-3	Soluble	Solid	DI Leach	
880-49711-3	SP-4	Soluble	Solid	DI Leach	
880-49711-4	SP-5	Soluble	Solid	DI Leach	
880-49711-5	SP-6	Soluble	Solid	DI Leach	
880-49711-6	SP-8	Soluble	Solid	DI Leach	
880-49711-7	SP-10	Soluble	Solid	DI Leach	
MB 880-93149/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93149/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93149/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 93243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49711-1	SP-2	Soluble	Solid	300.0	93149
880-49711-2	SP-3	Soluble	Solid	300.0	93149
880-49711-3	SP-4	Soluble	Solid	300.0	93149
880-49711-4	SP-5	Soluble	Solid	300.0	93149
880-49711-5	SP-6	Soluble	Solid	300.0	93149
880-49711-6	SP-8	Soluble	Solid	300.0	93149
880-49711-7	SP-10	Soluble	Solid	300.0	93149
MB 880-93149/1-A	Method Blank	Soluble	Solid	300.0	93149
LCS 880-93149/2-A	Lab Control Sample	Soluble	Solid	300.0	93149

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-49711-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

HPLC/IC (Continued)

Analysis Batch: 93243 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-93149/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93149

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49711-1
SDG: 24-0117-01

Client Sample ID: SP-2

Date Collected: 10/10/24 12:11
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49711-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	93185	10/14/24 09:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93303	10/15/24 11:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93367	10/15/24 11:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			93382	10/14/24 22:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	93136	10/11/24 15:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93283	10/14/24 22:35	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93149	10/11/24 16:54	SA	EET MID
Soluble	Analysis	300.0		1			93243	10/14/24 17:41	CH	EET MID

Client Sample ID: SP-3

Date Collected: 10/10/24 11:45
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49711-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93185	10/14/24 09:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93303	10/15/24 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93367	10/15/24 13:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			93382	10/14/24 22:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	93136	10/11/24 15:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93283	10/14/24 22:50	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	93149	10/11/24 16:54	SA	EET MID
Soluble	Analysis	300.0		1			93243	10/14/24 17:47	CH	EET MID

Client Sample ID: SP-4

Date Collected: 10/10/24 11:10
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49711-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	93185	10/14/24 09:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93303	10/15/24 13:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93367	10/15/24 13:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			93382	10/14/24 23:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	93136	10/11/24 15:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93283	10/14/24 23:05	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93149	10/11/24 16:54	SA	EET MID
Soluble	Analysis	300.0		1			93243	10/14/24 17:52	CH	EET MID

Client Sample ID: SP-5

Date Collected: 10/10/24 11:21
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49711-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	93185	10/14/24 09:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93303	10/15/24 13:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93367	10/15/24 13:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49711-1
SDG: 24-0117-01

Client Sample ID: SP-5

Date Collected: 10/10/24 11:21
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49711-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			93382	10/14/24 23:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	93136	10/11/24 15:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93283	10/14/24 23:19	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93149	10/11/24 16:54	SA	EET MID
Soluble	Analysis	300.0		1			93243	10/14/24 17:58	CH	EET MID

Client Sample ID: SP-6

Date Collected: 10/09/24 13:00
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49711-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	93185	10/14/24 09:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93303	10/15/24 17:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93367	10/15/24 17:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			93382	10/14/24 23:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	93136	10/11/24 15:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93283	10/14/24 23:35	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	93149	10/11/24 16:54	SA	EET MID
Soluble	Analysis	300.0		1			93243	10/14/24 18:03	CH	EET MID

Client Sample ID: SP-8

Date Collected: 10/09/24 13:45
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49711-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	93185	10/14/24 09:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93303	10/15/24 17:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93367	10/15/24 17:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			93382	10/14/24 23:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	93136	10/11/24 15:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93283	10/14/24 23:49	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	93149	10/11/24 16:54	SA	EET MID
Soluble	Analysis	300.0		1			93243	10/14/24 18:08	CH	EET MID

Client Sample ID: SP-10

Date Collected: 10/09/24 13:30
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49711-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	93185	10/14/24 09:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93303	10/15/24 18:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93367	10/15/24 18:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			93382	10/15/24 00:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	93136	10/11/24 15:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93283	10/15/24 00:04	TKC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49711-1
SDG: 24-0117-01

Client Sample ID: SP-10
Date Collected: 10/09/24 13:30
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49711-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	93149	10/11/24 16:54	SA	EET MID
Soluble	Analysis	300.0		1			93243	10/14/24 18:14	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: 880-49711-1
Project/Site: Chamaelon State Com Battery 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	06-30-25

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

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

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-49711-1
Project/Site: Chamaelon State Com Battery 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: Chamaelon State Com Battery

Job ID: 880-49711-1
SDG: 24-0117-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-49711-1	SP-2	Solid	10/10/24 12:11	10/11/24 15:15
880-49711-2	SP-3	Solid	10/10/24 11:45	10/11/24 15:15
880-49711-3	SP-4	Solid	10/10/24 11:10	10/11/24 15:15
880-49711-4	SP-5	Solid	10/10/24 11:21	10/11/24 15:15
880-49711-5	SP-6	Solid	10/09/24 13:00	10/11/24 15:15
880-49711-6	SP-8	Solid	10/09/24 13:45	10/11/24 15:15
880-49711-7	SP-10	Solid	10/09/24 13:30	10/11/24 15:15

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-49711-1
SDG Number: 24-0117-01

Login Number: 49711
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/4/2024 8:58:42 AM

JOB DESCRIPTION

Chamaelon Bin State Com Btry
24-0117-01

JOB NUMBER

880-50468-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

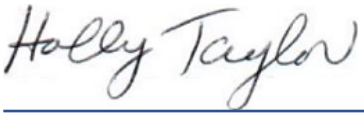
Eurofins Midland

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



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11/4/2024 8:58:42 AM

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

Client: Larson & Associates, Inc.
Project/Site: Chamaelon Bin State Com Btry

Laboratory Job ID: 880-50468-1
SDG: 24-0117-01

Table of Contents

Eurofins Midland
11/4/2024

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-50468-1
Project/Site: Chamaelon Bin State Com Btry SDG: 24-0117-01

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-50468-1
Project: Chamaelon Bin State Com Btry

Job ID: 880-50468-1 Eurofins Midland

Job Narrative
880-50468-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 10/31/2024 8:49 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SP-11 0.5 (880-50468-1) and SP-12 0.5 (880-50468-2).

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: The surrogate recovery for the blank associated with preparation batch 880-94523 and analytical batch 880-94538 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-94523/2-A) and (LCSD 880-94523/3-A). Percent recoveries are based on the amount spiked.

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon Bin State Com Btry

Job ID: 880-50468-1
SDG: 24-0117-01

Client Sample ID: SP-11 0.5

Date Collected: 10/25/24 09:15
Date Received: 10/31/24 08:49

Lab Sample ID: 880-50468-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00204	U	0.00204	mg/Kg		10/31/24 09:29	10/31/24 11:58	1
Toluene	<0.00204	U	0.00204	mg/Kg		10/31/24 09:29	10/31/24 11:58	1
Ethylbenzene	<0.00204	U	0.00204	mg/Kg		10/31/24 09:29	10/31/24 11:58	1
m,p-Xylenes	<0.00407	U	0.00407	mg/Kg		10/31/24 09:29	10/31/24 11:58	1
o-Xylene	<0.00204	U	0.00204	mg/Kg		10/31/24 09:29	10/31/24 11:58	1
Xylenes, Total	<0.00407	U	0.00407	mg/Kg		10/31/24 09:29	10/31/24 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*10/31/24 09:29*	*10/31/24 11:58*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/31/24 09:29*	*10/31/24 11:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00407	U	0.00407	mg/Kg			10/31/24 11:58	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			10/31/24 16:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/31/24 13:33	10/31/24 16:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/31/24 13:33	10/31/24 16:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/31/24 13:33	10/31/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*10/31/24 13:33*	*10/31/24 16:14*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*10/31/24 13:33*	*10/31/24 16:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.7**		9.96	mg/Kg			10/31/24 13:40	1

Client Sample ID: SP-12 0.5

Date Collected: 10/25/24 09:22
Date Received: 10/31/24 08:49

Lab Sample ID: 880-50468-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/31/24 09:29	10/31/24 12:18	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/31/24 09:29	10/31/24 12:18	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/31/24 09:29	10/31/24 12:18	1
m,p-Xylenes	<0.00396	U	0.00396	mg/Kg		10/31/24 09:29	10/31/24 12:18	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/31/24 09:29	10/31/24 12:18	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/31/24 09:29	10/31/24 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*10/31/24 09:29*	*10/31/24 12:18*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*10/31/24 09:29*	*10/31/24 12:18*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon Bin State Com Btry

Job ID: 880-50468-1
SDG: 24-0117-01

Client Sample ID: SP-12 0.5

Date Collected: 10/25/24 09:22
Date Received: 10/31/24 08:49

Lab Sample ID: 880-50468-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/31/24 12:18	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			10/31/24 16:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/31/24 13:33	10/31/24 16:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/31/24 13:33	10/31/24 16:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/31/24 13:33	10/31/24 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*10/31/24 13:33*	*10/31/24 16:30*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*10/31/24 13:33*	*10/31/24 16:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.2**		10.0		mg/Kg			10/31/24 13:47	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon Bin State Com Btry

Job ID: 880-50468-1
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)
880-50468-1	SP-11 0.5	117	96
880-50468-2	SP-12 0.5	114	95
LCS 880-94487/1-A	Lab Control Sample	97	101
LCSD 880-94487/2-A	Lab Control Sample Dup	103	105
MB 880-94487/5-A	Method Blank	115	91

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-50468-1	SP-11 0.5	91	83
880-50468-2	SP-12 0.5	100	90
LCS 880-94523/2-A	Lab Control Sample	172 S1+	176 S1+
LCSD 880-94523/3-A	Lab Control Sample Dup	172 S1+	175 S1+
MB 880-94523/1-A	Method Blank	139 S1+	132 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon Bin State Com Btry

Job ID: 880-50468-1
SDG: 24-0117-01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-94487/5-A
Matrix: Solid
Analysis Batch: 94482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94487

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/24 08:40	10/31/24 10:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/24 08:40	10/31/24 10:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/24 08:40	10/31/24 10:55	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/31/24 08:40	10/31/24 10:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/24 08:40	10/31/24 10:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/31/24 08:40	10/31/24 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*10/31/24 08:40*	*10/31/24 10:55*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/31/24 08:40*	*10/31/24 10:55*	*1*

Lab Sample ID: LCS 880-94487/1-A
Matrix: Solid
Analysis Batch: 94482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94487

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1078		mg/Kg		108	70 - 130		
Toluene			0.100	0.1076		mg/Kg		108	70 - 130		
Ethylbenzene			0.100	0.1049		mg/Kg		105	70 - 130		
m,p-Xylenes			0.200	0.2061		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.1034		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-94487/2-A
Matrix: Solid
Analysis Batch: 94482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94487

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1146		mg/Kg		115	70 - 130	6	35
Toluene			0.100	0.1133		mg/Kg		113	70 - 130	5	35
Ethylbenzene			0.100	0.1106		mg/Kg		111	70 - 130	5	35
m,p-Xylenes			0.200	0.2180		mg/Kg		109	70 - 130	6	35
o-Xylene			0.100	0.1090		mg/Kg		109	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon Bin State Com Btry

Job ID: 880-50468-1
SDG: 24-0117-01

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

Lab Sample ID: MB 880-94523/1-A
Matrix: Solid
Analysis Batch: 94538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94523

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		10/31/24 09:00	10/31/24 09:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/31/24 09:00	10/31/24 09:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/31/24 09:00	10/31/24 09:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*139*	*S1+*	*70 - 130*	*10/31/24 09:00*	*10/31/24 09:52*	*1*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*	*10/31/24 09:00*	*10/31/24 09:52*	*1*

Lab Sample ID: LCS 880-94523/2-A
Matrix: Solid
Analysis Batch: 94538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94523

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1087		mg/Kg		109	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1107		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*172*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*176*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-94523/3-A
Matrix: Solid
Analysis Batch: 94538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94523

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1129		mg/Kg		113	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1064		mg/Kg		106	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*172*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*175*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-94480/1-A
Matrix: Solid
Analysis Batch: 94502

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			10/31/24 10:42	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon Bin State Com Btry

Job ID: 880-50468-1
SDG: 24-0117-01

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-94480/2-A
Matrix: Solid
Analysis Batch: 94502

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.0		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-94480/3-A
Matrix: Solid
Analysis Batch: 94502

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	260.6		mg/Kg		104	90 - 110	4	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon Bin State Com Btry

Job ID: 880-50468-1
SDG: 24-0117-01

GC VOA

Analysis Batch: 94482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50468-1	SP-11 0.5	Total/NA	Solid	8021B	94487
880-50468-2	SP-12 0.5	Total/NA	Solid	8021B	94487
MB 880-94487/5-A	Method Blank	Total/NA	Solid	8021B	94487
LCS 880-94487/1-A	Lab Control Sample	Total/NA	Solid	8021B	94487
LCSD 880-94487/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	94487

Prep Batch: 94487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50468-1	SP-11 0.5	Total/NA	Solid	5035	
880-50468-2	SP-12 0.5	Total/NA	Solid	5035	
MB 880-94487/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-94487/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-94487/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 94659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50468-1	SP-11 0.5	Total/NA	Solid	Total BTEX	
880-50468-2	SP-12 0.5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 94523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50468-1	SP-11 0.5	Total/NA	Solid	8015NM Prep	
880-50468-2	SP-12 0.5	Total/NA	Solid	8015NM Prep	
MB 880-94523/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-94523/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-94523/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 94538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50468-1	SP-11 0.5	Total/NA	Solid	8015B NM	94523
880-50468-2	SP-12 0.5	Total/NA	Solid	8015B NM	94523
MB 880-94523/1-A	Method Blank	Total/NA	Solid	8015B NM	94523
LCS 880-94523/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	94523
LCSD 880-94523/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	94523

Analysis Batch: 94613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50468-1	SP-11 0.5	Total/NA	Solid	8015 NM	
880-50468-2	SP-12 0.5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 94480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50468-1	SP-11 0.5	Soluble	Solid	DI Leach	
880-50468-2	SP-12 0.5	Soluble	Solid	DI Leach	
MB 880-94480/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-94480/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-94480/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon Bin State Com Btry

Job ID: 880-50468-1
SDG: 24-0117-01

HPLC/IC

Analysis Batch: 94502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50468-1	SP-11 0.5	Soluble	Solid	300.0	94480
880-50468-2	SP-12 0.5	Soluble	Solid	300.0	94480
MB 880-94480/1-A	Method Blank	Soluble	Solid	300.0	94480
LCS 880-94480/2-A	Lab Control Sample	Soluble	Solid	300.0	94480
LCSD 880-94480/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	94480

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaelon Bin State Com Btry

Job ID: 880-50468-1
SDG: 24-0117-01

Client Sample ID: SP-11 0.5

Date Collected: 10/25/24 09:15
Date Received: 10/31/24 08:49

Lab Sample ID: 880-50468-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.91 g	5 mL	94487	10/31/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94482	10/31/24 11:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94659	10/31/24 11:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			94613	10/31/24 16:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	94523	10/31/24 13:33	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94538	10/31/24 16:14	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	94480	10/31/24 09:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94502	10/31/24 13:40	SMC	EET MID

Client Sample ID: SP-12 0.5

Date Collected: 10/25/24 09:22
Date Received: 10/31/24 08:49

Lab Sample ID: 880-50468-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	94487	10/31/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94482	10/31/24 12:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94659	10/31/24 12:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			94613	10/31/24 16:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	94523	10/31/24 13:33	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94538	10/31/24 16:30	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	94480	10/31/24 09:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94502	10/31/24 13:47	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: 880-50468-1
Project/Site: Chamaelon Bin State Com Btry 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	06-30-25

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

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

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-50468-1
Project/Site: Chamaelon Bin State Com Btry 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: Chamaelon Bin State Com Btry

Job ID: 880-50468-1
SDG: 24-0117-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-50468-1	SP-11 0.5	Solid	10/25/24 09:15	10/31/24 08:49
880-50468-2	SP-12 0.5	Solid	10/25/24 09:22	10/31/24 08:49

504168 No. 3361

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 10/31/2024 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Chamaelion 8N State Com Btry

LAI PROJECT #: 24-0117-01 COLLECTOR: JR

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

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 ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☑	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
SP-11 0.5		10/25/24	0915	S	1				X		X		X	X	X																											X			202
SP-12 0.5		10/25/24	0922	S	1				X		X		X	X	X																											X			
TOTAL 2																																														

RELINQUISHED BY:(Signature) Dani Stone DATE/TIME 10/31/2024 0849 RECEIVED BY: (Signature) VRS

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

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

LABORATORY: Eurofins

TURN AROUND TIME
NORMAL ☐
1 DAY ☐
2 DAY ☐
OTHER ☒ 3 day

LABORATORY USE ONLY:
RECEIVING TEMP: 5.0 / 5.4 THERM#: IR8 -10
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

880-50468 Chain of Custody

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-50468-1
SDG Number: 24-0117-01

Login Number: 50468
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/16/2024 2:26:05 PM

JOB DESCRIPTION

Chamaelon State Com Battery
24-0117-01

JOB NUMBER

880-49712-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

Job Notes

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

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

Authorization

Holly Taylor

Generated
10/16/2024 2:26:05 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: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Qualifiers

GC VOA

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

GC Semi VOA

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

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: 880-49712-1
Project: Chamaelon State Com Battery

Job ID: 880-49712-1 Eurofins Midland

Job Narrative
880-49712-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 10/11/2024 3:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C.

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-93174 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m,p-Xylenes and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-93174/2) and (CCV 880-93174/33).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-93138 and analytical batch 880-93174 was outside the upper control limits.

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-93161/2-A) and (LCSD 880-93161/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-93161 and analytical batch 880-93209 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 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: C-16 (880-49712-16). Percent recoveries are based on the amount spiked.

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: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: C-1 Lab Sample ID: 880-49712-1

Date Collected: 10/09/24 07:20 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 02:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 02:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 02:35	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/14/24 10:03	10/15/24 02:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 02:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/24 10:03	10/15/24 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*10/14/24 10:03*	*10/15/24 02:35*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*10/14/24 10:03*	*10/15/24 02:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/15/24 02:35	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			10/15/24 03:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/13/24 17:30	10/15/24 03:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		10/13/24 17:30	10/15/24 03:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/24 17:30	10/15/24 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*10/13/24 17:30*	*10/15/24 03:02*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*10/13/24 17:30*	*10/15/24 03:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**535**		9.92		mg/Kg			10/14/24 18:18	1

Client Sample ID: C-2 Lab Sample ID: 880-49712-2

Date Collected: 10/09/24 07:25 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 03:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 03:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 03:01	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/14/24 10:03	10/15/24 03:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 03:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/14/24 10:03	10/15/24 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*10/14/24 10:03*	*10/15/24 03:01*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/14/24 10:03*	*10/15/24 03:01*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

Client Sample ID: C-2

Date Collected: 10/09/24 07:25
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/15/24 03:01	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			10/15/24 03:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/13/24 17:30	10/15/24 03:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		10/13/24 17:30	10/15/24 03:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/24 17:30	10/15/24 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*10/13/24 17:30*	*10/15/24 03:50*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*10/13/24 17:30*	*10/15/24 03:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**143**		9.96		mg/Kg			10/14/24 18:39	1

Client Sample ID: C-3

Date Collected: 10/09/24 07:28
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 03:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 03:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 03:28	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 03:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 03:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*10/14/24 10:03*	*10/15/24 03:28*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/14/24 10:03*	*10/15/24 03:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/15/24 03:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/15/24 04:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/13/24 17:30	10/15/24 04:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		10/13/24 17:30	10/15/24 04:08	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: C-3 Lab Sample ID: 880-49712-3

Date Collected: 10/09/24 07:28 **Matrix: Solid**
Date Received: 10/11/24 15:15

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		10/13/24 17:30	10/15/24 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*10/13/24 17:30*	*10/15/24 04:08*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*10/13/24 17:30*	*10/15/24 04:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**251**		9.98		mg/Kg			10/14/24 18:46	1

Client Sample ID: C-4 Lab Sample ID: 880-49712-4

Date Collected: 10/09/24 07:40 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 03:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 03:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 03:54	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 03:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 03:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*10/14/24 10:03*	*10/15/24 03:54*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*10/14/24 10:03*	*10/15/24 03:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/15/24 03:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**82.6**		49.8		mg/Kg			10/15/24 04:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/13/24 17:30	10/15/24 04:23	1
Diesel Range Organics (Over C10-C28)	**82.6**	***+**	49.8		mg/Kg		10/13/24 17:30	10/15/24 04:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/24 17:30	10/15/24 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*10/13/24 17:30*	*10/15/24 04:23*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*10/13/24 17:30*	*10/15/24 04:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**207**		9.92		mg/Kg			10/14/24 18:53	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: C-5 Lab Sample ID: 880-49712-5

Date Collected: 10/09/24 07:51 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 04:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 04:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 04:21	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/14/24 10:03	10/15/24 04:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 04:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/24 10:03	10/15/24 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*10/14/24 10:03*	*10/15/24 04:21*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/14/24 10:03*	*10/15/24 04:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/15/24 04:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/15/24 04:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/13/24 17:30	10/15/24 04:40	1
Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6		mg/Kg		10/13/24 17:30	10/15/24 04:40	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/13/24 17:30	10/15/24 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*10/13/24 17:30*	*10/15/24 04:40*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*10/13/24 17:30*	*10/15/24 04:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**115**		10.1		mg/Kg			10/14/24 19:00	1

Client Sample ID: C-6 Lab Sample ID: 880-49712-6

Date Collected: 10/09/24 07:58 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 04:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 04:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 04:47	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		10/14/24 10:03	10/15/24 04:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 04:47	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/14/24 10:03	10/15/24 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*10/14/24 10:03*	*10/15/24 04:47*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/14/24 10:03*	*10/15/24 04:47*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: C-6 Lab Sample ID: 880-49712-6

Date Collected: 10/09/24 07:58 **Matrix: Solid**
Date Received: 10/11/24 15:15

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/15/24 04:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/15/24 04:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/13/24 17:30	10/15/24 04:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		10/13/24 17:30	10/15/24 04:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/13/24 17:30	10/15/24 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*10/13/24 17:30*	*10/15/24 04:56*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*10/13/24 17:30*	*10/15/24 04:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75.7**		9.94		mg/Kg			10/14/24 19:21	1

Client Sample ID: C-7 Lab Sample ID: 880-49712-7

Date Collected: 10/09/24 08:10 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/14/24 10:03	10/15/24 05:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/14/24 10:03	10/15/24 05:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/14/24 10:03	10/15/24 05:14	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		10/14/24 10:03	10/15/24 05:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/14/24 10:03	10/15/24 05:14	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/14/24 10:03	10/15/24 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*10/14/24 10:03*	*10/15/24 05:14*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/14/24 10:03*	*10/15/24 05:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/15/24 05:14	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			10/15/24 05:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/13/24 17:30	10/15/24 05:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		10/13/24 17:30	10/15/24 05:12	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: C-7 Lab Sample ID: 880-49712-7

Date Collected: 10/09/24 08:10 **Matrix: Solid**
Date Received: 10/11/24 15:15

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		10/13/24 17:30	10/15/24 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*10/13/24 17:30*	*10/15/24 05:12*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*10/13/24 17:30*	*10/15/24 05:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.0**		9.96		mg/Kg			10/14/24 19:27	1

Client Sample ID: C-8 Lab Sample ID: 880-49712-8

Date Collected: 10/09/24 08:25 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 05:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 05:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 05:40	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 05:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 05:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 05:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*10/14/24 10:03*	*10/15/24 05:40*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/14/24 10:03*	*10/15/24 05:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/15/24 05:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/15/24 05:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/13/24 17:30	10/15/24 05:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/13/24 17:30	10/15/24 05:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/24 17:30	10/15/24 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*10/13/24 17:30*	*10/15/24 05:28*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*10/13/24 17:30*	*10/15/24 05:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.8**		9.92		mg/Kg			10/14/24 19:34	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

Client Sample ID: C-9

Date Collected: 10/09/24 08:32
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 06:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 06:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 06:07	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		10/14/24 10:03	10/15/24 06:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 06:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/14/24 10:03	10/15/24 06:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*10/14/24 10:03*	*10/15/24 06:07*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*10/14/24 10:03*	*10/15/24 06:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/15/24 06:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/15/24 05:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/13/24 17:30	10/15/24 05:44	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		10/13/24 17:30	10/15/24 05:44	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/13/24 17:30	10/15/24 05:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*10/13/24 17:30*	*10/15/24 05:44*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*10/13/24 17:30*	*10/15/24 05:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**85.0**		10.1		mg/Kg			10/14/24 19:41	1

Client Sample ID: C-10

Date Collected: 10/09/24 08:36
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 06:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 06:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 06:33	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		10/14/24 10:03	10/15/24 06:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 06:33	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/14/24 10:03	10/15/24 06:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*10/14/24 10:03*	*10/15/24 06:33*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*10/14/24 10:03*	*10/15/24 06:33*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

Client Sample ID: C-10

Date Collected: 10/09/24 08:36
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/15/24 06:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/15/24 06:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/13/24 17:30	10/15/24 06:00	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		10/13/24 17:30	10/15/24 06:00	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/13/24 17:30	10/15/24 06:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*10/13/24 17:30*	*10/15/24 06:00*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*10/13/24 17:30*	*10/15/24 06:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**98.2**		9.96		mg/Kg			10/14/24 19:48	1

Client Sample ID: C-11

Date Collected: 10/09/24 08:42
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 08:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 08:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 08:18	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/14/24 10:03	10/15/24 08:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 08:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/14/24 10:03	10/15/24 08:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*10/14/24 10:03*	*10/15/24 08:18*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/14/24 10:03*	*10/15/24 08:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/15/24 08:18	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			10/15/24 06:31	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	<49.8	U	49.8		mg/Kg		10/13/24 17:30	10/15/24 06:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/13/24 17:30	10/15/24 06:31	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: C-11 Lab Sample ID: 880-49712-11

Date Collected: 10/09/24 08:42 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/24 17:30	10/15/24 06:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*10/13/24 17:30*	*10/15/24 06:31*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*10/13/24 17:30*	*10/15/24 06:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		9.94		mg/Kg			10/14/24 19:55	1

Client Sample ID: C-12 Lab Sample ID: 880-49712-12

Date Collected: 10/09/24 08:58 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 08:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 08:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 08:45	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 08:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 08:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*10/14/24 10:03*	*10/15/24 08:45*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/14/24 10:03*	*10/15/24 08:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/15/24 08:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/15/24 06:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/13/24 17:30	10/15/24 06:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		10/13/24 17:30	10/15/24 06:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/24 17:30	10/15/24 06:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*10/13/24 17:30*	*10/15/24 06:47*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*10/13/24 17:30*	*10/15/24 06:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.2**		9.98		mg/Kg			10/14/24 20:16	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: C-13 Lab Sample ID: 880-49712-13

Date Collected: 10/09/24 09:11 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 09:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 09:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 09:11	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 09:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 09:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*10/14/24 10:03*	*10/15/24 09:11*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*10/14/24 10:03*	*10/15/24 09:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/15/24 09:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/15/24 07:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/13/24 17:30	10/15/24 07:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		10/13/24 17:30	10/15/24 07:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/24 17:30	10/15/24 07:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*10/13/24 17:30*	*10/15/24 07:04*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*10/13/24 17:30*	*10/15/24 07:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.7**		9.96		mg/Kg			10/14/24 20:23	1

Client Sample ID: C-14 Lab Sample ID: 880-49712-14

Date Collected: 10/09/24 09:23 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 09:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 09:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 09:38	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/14/24 10:03	10/15/24 09:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 09:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/24 10:03	10/15/24 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*10/14/24 10:03*	*10/15/24 09:38*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/14/24 10:03*	*10/15/24 09:38*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

Client Sample ID: C-14

Date Collected: 10/09/24 09:23
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-14
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/15/24 09:38	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			10/15/24 09:18	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	<49.8	U	49.8		mg/Kg		10/13/24 17:30	10/15/24 09:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/13/24 17:30	10/15/24 09:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/24 17:30	10/15/24 09:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*10/13/24 17:30*	*10/15/24 09:18*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*10/13/24 17:30*	*10/15/24 09:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**404**		10.0		mg/Kg			10/14/24 20:43	1

Client Sample ID: C-15

Date Collected: 10/09/24 09:30
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 10:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 10:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 10:04	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/14/24 10:03	10/15/24 10:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 10:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/14/24 10:03	10/15/24 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*10/14/24 10:03*	*10/15/24 10:04*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/14/24 10:03*	*10/15/24 10:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/15/24 10:04	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			10/15/24 09:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/13/24 17:30	10/15/24 09:34	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		10/13/24 17:30	10/15/24 09:34	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: C-15 Lab Sample ID: 880-49712-15

Date Collected: 10/09/24 09:30 **Matrix: Solid**
Date Received: 10/11/24 15:15

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		10/13/24 17:30	10/15/24 09:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*125*		*70 - 130*	*10/13/24 17:30*	*10/15/24 09:34*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*10/13/24 17:30*	*10/15/24 09:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**148**		10.0		mg/Kg			10/14/24 20:50	1

Client Sample ID: C-16 Lab Sample ID: 880-49712-16

Date Collected: 10/09/24 09:45 **Matrix: Solid**
Date Received: 10/11/24 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 10:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 10:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 10:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 10:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 10:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 10:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*10/14/24 10:03*	*10/15/24 10:31*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/14/24 10:03*	*10/15/24 10:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/15/24 10:31	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			10/15/24 09:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/13/24 17:30	10/15/24 09:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		10/13/24 17:30	10/15/24 09:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/13/24 17:30	10/15/24 09:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*167*	*S1+*	*70 - 130*	*10/13/24 17:30*	*10/15/24 09:51*	*1*
o-Terphenyl (Surr)	*152*	*S1+*	*70 - 130*	*10/13/24 17:30*	*10/15/24 09:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**199**		10.0		mg/Kg			10/14/24 20:57	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

Client Sample ID: C-17

Date Collected: 10/09/24 10:32
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-17
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 10:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 10:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 10:57	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		10/14/24 10:03	10/15/24 10:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/14/24 10:03	10/15/24 10:57	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/14/24 10:03	10/15/24 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*10/14/24 10:03*	*10/15/24 10:57*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/14/24 10:03*	*10/15/24 10:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/15/24 10:57	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			10/15/24 10:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/13/24 17:30	10/15/24 10:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/13/24 17:30	10/15/24 10:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/13/24 17:30	10/15/24 10:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*10/13/24 17:30*	*10/15/24 10:07*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*10/13/24 17:30*	*10/15/24 10:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.3**		10.0		mg/Kg			10/14/24 21:04	1

Client Sample ID: C-18

Date Collected: 10/09/24 11:40
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 11:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 11:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 11:24	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 11:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/24 10:03	10/15/24 11:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/24 10:03	10/15/24 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*10/14/24 10:03*	*10/15/24 11:24*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/14/24 10:03*	*10/15/24 11:24*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

Client Sample ID: C-18

Date Collected: 10/09/24 11:40
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-18

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/15/24 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/15/24 10:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/13/24 17:30	10/15/24 10:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		10/13/24 17:30	10/15/24 10:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/24 17:30	10/15/24 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*10/13/24 17:30*	*10/15/24 10:23*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*10/13/24 17:30*	*10/15/24 10:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.5**		10.1		mg/Kg			10/14/24 21:11	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
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)										
880-49712-1	C-1	100	77										
880-49712-1 MS	C-1	108	89										
880-49712-1 MSD	C-1	108	89										
880-49712-2	C-2	117	99										
880-49712-3	C-3	107	100										
880-49712-4	C-4	116	93										
880-49712-5	C-5	114	96										
880-49712-6	C-6	104	100										
880-49712-7	C-7	96	96										
880-49712-8	C-8	116	96										
880-49712-9	C-9	131 S1+	103										
880-49712-10	C-10	111	85										
880-49712-11	C-11	116	96										
880-49712-12	C-12	118	94										
880-49712-13	C-13	115	95										
880-49712-14	C-14	123	96										
880-49712-15	C-15	112	96										
880-49712-16	C-16	118	92										
880-49712-17	C-17	114	102										
880-49712-18	C-18	121	96										
LCS 880-93191/1-A	Lab Control Sample	101	95										
LCSD 880-93191/2-A	Lab Control Sample Dup	102	90										
MB 880-93138/5-A	Method Blank	69 S1-	87										
MB 880-93191/5-A	Method Blank	68 S1-	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)										
880-49712-1	C-1	118	106										
880-49712-1 MS	C-1	110	107										
880-49712-1 MSD	C-1	110	107										
880-49712-2	C-2	95	86										
880-49712-3	C-3	110	98										
880-49712-4	C-4	111	99										
880-49712-5	C-5	94	88										
880-49712-6	C-6	98	91										
880-49712-7	C-7	90	86										
880-49712-8	C-8	98	93										
880-49712-9	C-9	92	82										
880-49712-10	C-10	101	91										
880-49712-11	C-11	106	92										
880-49712-12	C-12	94	83										
880-49712-13	C-13	115	102										

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-49712-14	C-14	115	103										
880-49712-15	C-15	125	114										
880-49712-16	C-16	167 S1+	152 S1+										
880-49712-17	C-17	117	106										
880-49712-18	C-18	116	106										
LCS 880-93161/2-A	Lab Control Sample	112	171 S1+										
LCSD 880-93161/3-A	Lab Control Sample Dup	112	169 S1+										
MB 880-93161/1-A	Method Blank	106	100										

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-93138/5-A
Matrix: Solid
Analysis Batch: 93174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93138

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/24 16:00	10/14/24 12:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/24 16:00	10/14/24 12:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/24 16:00	10/14/24 12:27	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/11/24 16:00	10/14/24 12:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/24 16:00	10/14/24 12:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/24 16:00	10/14/24 12:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*10/11/24 16:00*	*10/14/24 12:27*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/11/24 16:00*	*10/14/24 12:27*	*1*

Lab Sample ID: MB 880-93191/5-A
Matrix: Solid
Analysis Batch: 93174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93191

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 02:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 02:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 02:08	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/14/24 10:03	10/15/24 02:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/24 10:03	10/15/24 02:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/14/24 10:03	10/15/24 02:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*10/14/24 10:03*	*10/15/24 02:08*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*10/14/24 10:03*	*10/15/24 02:08*	*1*

Lab Sample ID: LCS 880-93191/1-A
Matrix: Solid
Analysis Batch: 93174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93191

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09655		mg/Kg		97	70 - 130		
Toluene			0.100	0.1064		mg/Kg		106	70 - 130		
Ethylbenzene			0.100	0.1095		mg/Kg		110	70 - 130		
m,p-Xylenes			0.200	0.2223		mg/Kg		111	70 - 130		
o-Xylene			0.100	0.1134		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-93191/2-A
Matrix: Solid
Analysis Batch: 93174

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93191

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08846		mg/Kg		88	70 - 130	9	35

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

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

Lab Sample ID: LCSD 880-93191/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 93174 **Prep Batch: 93191**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09809		mg/Kg		98	70 - 130	8	35
Ethylbenzene			0.100	0.09874		mg/Kg		99	70 - 130	10	35
m,p-Xylenes			0.200	0.1998		mg/Kg		100	70 - 130	11	35
o-Xylene			0.100	0.1013		mg/Kg		101	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-49712-1 MS **Client Sample ID: C-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 93174 **Prep Batch: 93191**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09366		mg/Kg		94	70 - 130
Toluene	<0.00200	U	0.100	0.1063		mg/Kg		106	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1041		mg/Kg		104	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.2127		mg/Kg		106	70 - 130
o-Xylene	<0.00200	U	0.100	0.1073		mg/Kg		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-49712-1 MSD **Client Sample ID: C-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 93174 **Prep Batch: 93191**

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	0.08804		mg/Kg		88	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.09854		mg/Kg		99	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.100	0.09963		mg/Kg		100	70 - 130	4	35
m,p-Xylenes	<0.00399	U	0.200	0.2033		mg/Kg		102	70 - 130	5	35
o-Xylene	<0.00200	U	0.100	0.1016		mg/Kg		102	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

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

Lab Sample ID: MB 880-93161/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 93209 **Prep Batch: 93161**

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		10/13/24 17:30	10/15/24 02:14	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

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

Lab Sample ID: MB 880-93161/1-A
Matrix: Solid
Analysis Batch: 93209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93161

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/13/24 17:30	10/15/24 02:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/24 17:30	10/15/24 02:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*10/13/24 17:30*	*10/15/24 02:14*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*10/13/24 17:30*	*10/15/24 02:14*	*1*

Lab Sample ID: LCS 880-93161/2-A
Matrix: Solid
Analysis Batch: 93209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93161

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1104		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1355	*+	mg/Kg		136	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*112*		*70 - 130*
o-Terphenyl (Surr)	*171*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-93161/3-A
Matrix: Solid
Analysis Batch: 93209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93161

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1099		mg/Kg		110	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1277		mg/Kg		128	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*112*		*70 - 130*
o-Terphenyl (Surr)	*169*	*S1+*	*70 - 130*

Lab Sample ID: 880-49712-1 MS
Matrix: Solid
Analysis Batch: 93209

Client Sample ID: C-1
Prep Type: Total/NA
Prep Batch: 93161

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	997	967.8		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U *+	997	967.3		mg/Kg		97	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*110*		*70 - 130*
o-Terphenyl (Surr)	*107*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

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

Lab Sample ID: 880-49712-1 MSD **Client Sample ID: C-1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 93209 **Prep Batch: 93161**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	931.1		mg/Kg		93	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U *+	997	954.3		mg/Kg		96	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*110*		*70 - 130*
o-Terphenyl (Surr)	*107*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-93201/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 93245

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			10/14/24 17:58	1

Lab Sample ID: LCS 880-93201/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 93245

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	260.0		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-93201/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 93245

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	254.8		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 880-49712-1 MS **Client Sample ID: C-1**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 93245

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	535		248	763.1		mg/Kg		92	90 - 110		

Lab Sample ID: 880-49712-1 MSD **Client Sample ID: C-1**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 93245

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	535		248	770.0		mg/Kg		95	90 - 110	1	20

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-49712-11 MS **Client Sample ID: C-11**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 93245

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	129		249	374.6		mg/Kg		99	90 - 110		

Lab Sample ID: 880-49712-11 MSD **Client Sample ID: C-11**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 93245

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	129		249	374.9		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

GC VOA

Prep Batch: 93138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-93138/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 93174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49712-1	C-1	Total/NA	Solid	8021B	93191
880-49712-2	C-2	Total/NA	Solid	8021B	93191
880-49712-3	C-3	Total/NA	Solid	8021B	93191
880-49712-4	C-4	Total/NA	Solid	8021B	93191
880-49712-5	C-5	Total/NA	Solid	8021B	93191
880-49712-6	C-6	Total/NA	Solid	8021B	93191
880-49712-7	C-7	Total/NA	Solid	8021B	93191
880-49712-8	C-8	Total/NA	Solid	8021B	93191
880-49712-9	C-9	Total/NA	Solid	8021B	93191
880-49712-10	C-10	Total/NA	Solid	8021B	93191
880-49712-11	C-11	Total/NA	Solid	8021B	93191
880-49712-12	C-12	Total/NA	Solid	8021B	93191
880-49712-13	C-13	Total/NA	Solid	8021B	93191
880-49712-14	C-14	Total/NA	Solid	8021B	93191
880-49712-15	C-15	Total/NA	Solid	8021B	93191
880-49712-16	C-16	Total/NA	Solid	8021B	93191
880-49712-17	C-17	Total/NA	Solid	8021B	93191
880-49712-18	C-18	Total/NA	Solid	8021B	93191
MB 880-93138/5-A	Method Blank	Total/NA	Solid	8021B	93138
MB 880-93191/5-A	Method Blank	Total/NA	Solid	8021B	93191
LCS 880-93191/1-A	Lab Control Sample	Total/NA	Solid	8021B	93191
LCSD 880-93191/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	93191
880-49712-1 MS	C-1	Total/NA	Solid	8021B	93191
880-49712-1 MSD	C-1	Total/NA	Solid	8021B	93191

Prep Batch: 93191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49712-1	C-1	Total/NA	Solid	5035	
880-49712-2	C-2	Total/NA	Solid	5035	
880-49712-3	C-3	Total/NA	Solid	5035	
880-49712-4	C-4	Total/NA	Solid	5035	
880-49712-5	C-5	Total/NA	Solid	5035	
880-49712-6	C-6	Total/NA	Solid	5035	
880-49712-7	C-7	Total/NA	Solid	5035	
880-49712-8	C-8	Total/NA	Solid	5035	
880-49712-9	C-9	Total/NA	Solid	5035	
880-49712-10	C-10	Total/NA	Solid	5035	
880-49712-11	C-11	Total/NA	Solid	5035	
880-49712-12	C-12	Total/NA	Solid	5035	
880-49712-13	C-13	Total/NA	Solid	5035	
880-49712-14	C-14	Total/NA	Solid	5035	
880-49712-15	C-15	Total/NA	Solid	5035	
880-49712-16	C-16	Total/NA	Solid	5035	
880-49712-17	C-17	Total/NA	Solid	5035	
880-49712-18	C-18	Total/NA	Solid	5035	
MB 880-93191/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-93191/1-A	Lab Control Sample	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

GC VOA (Continued)

Prep Batch: 93191 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-93191/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49712-1 MS	C-1	Total/NA	Solid	5035	
880-49712-1 MSD	C-1	Total/NA	Solid	5035	

Analysis Batch: 93486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49712-1	C-1	Total/NA	Solid	Total BTEX	
880-49712-2	C-2	Total/NA	Solid	Total BTEX	
880-49712-3	C-3	Total/NA	Solid	Total BTEX	
880-49712-4	C-4	Total/NA	Solid	Total BTEX	
880-49712-5	C-5	Total/NA	Solid	Total BTEX	
880-49712-6	C-6	Total/NA	Solid	Total BTEX	
880-49712-7	C-7	Total/NA	Solid	Total BTEX	
880-49712-8	C-8	Total/NA	Solid	Total BTEX	
880-49712-9	C-9	Total/NA	Solid	Total BTEX	
880-49712-10	C-10	Total/NA	Solid	Total BTEX	
880-49712-11	C-11	Total/NA	Solid	Total BTEX	
880-49712-12	C-12	Total/NA	Solid	Total BTEX	
880-49712-13	C-13	Total/NA	Solid	Total BTEX	
880-49712-14	C-14	Total/NA	Solid	Total BTEX	
880-49712-15	C-15	Total/NA	Solid	Total BTEX	
880-49712-16	C-16	Total/NA	Solid	Total BTEX	
880-49712-17	C-17	Total/NA	Solid	Total BTEX	
880-49712-18	C-18	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 93161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49712-1	C-1	Total/NA	Solid	8015NM Prep	
880-49712-2	C-2	Total/NA	Solid	8015NM Prep	
880-49712-3	C-3	Total/NA	Solid	8015NM Prep	
880-49712-4	C-4	Total/NA	Solid	8015NM Prep	
880-49712-5	C-5	Total/NA	Solid	8015NM Prep	
880-49712-6	C-6	Total/NA	Solid	8015NM Prep	
880-49712-7	C-7	Total/NA	Solid	8015NM Prep	
880-49712-8	C-8	Total/NA	Solid	8015NM Prep	
880-49712-9	C-9	Total/NA	Solid	8015NM Prep	
880-49712-10	C-10	Total/NA	Solid	8015NM Prep	
880-49712-11	C-11	Total/NA	Solid	8015NM Prep	
880-49712-12	C-12	Total/NA	Solid	8015NM Prep	
880-49712-13	C-13	Total/NA	Solid	8015NM Prep	
880-49712-14	C-14	Total/NA	Solid	8015NM Prep	
880-49712-15	C-15	Total/NA	Solid	8015NM Prep	
880-49712-16	C-16	Total/NA	Solid	8015NM Prep	
880-49712-17	C-17	Total/NA	Solid	8015NM Prep	
880-49712-18	C-18	Total/NA	Solid	8015NM Prep	
MB 880-93161/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93161/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93161/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49712-1 MS	C-1	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

GC Semi VOA (Continued)

Prep Batch: 93161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49712-1 MSD	C-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 93209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49712-1	C-1	Total/NA	Solid	8015B NM	93161
880-49712-2	C-2	Total/NA	Solid	8015B NM	93161
880-49712-3	C-3	Total/NA	Solid	8015B NM	93161
880-49712-4	C-4	Total/NA	Solid	8015B NM	93161
880-49712-5	C-5	Total/NA	Solid	8015B NM	93161
880-49712-6	C-6	Total/NA	Solid	8015B NM	93161
880-49712-7	C-7	Total/NA	Solid	8015B NM	93161
880-49712-8	C-8	Total/NA	Solid	8015B NM	93161
880-49712-9	C-9	Total/NA	Solid	8015B NM	93161
880-49712-10	C-10	Total/NA	Solid	8015B NM	93161
880-49712-11	C-11	Total/NA	Solid	8015B NM	93161
880-49712-12	C-12	Total/NA	Solid	8015B NM	93161
880-49712-13	C-13	Total/NA	Solid	8015B NM	93161
880-49712-14	C-14	Total/NA	Solid	8015B NM	93161
880-49712-15	C-15	Total/NA	Solid	8015B NM	93161
880-49712-16	C-16	Total/NA	Solid	8015B NM	93161
880-49712-17	C-17	Total/NA	Solid	8015B NM	93161
880-49712-18	C-18	Total/NA	Solid	8015B NM	93161
MB 880-93161/1-A	Method Blank	Total/NA	Solid	8015B NM	93161
LCS 880-93161/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93161
LCSD 880-93161/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93161
880-49712-1 MS	C-1	Total/NA	Solid	8015B NM	93161
880-49712-1 MSD	C-1	Total/NA	Solid	8015B NM	93161

Analysis Batch: 93377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49712-1	C-1	Total/NA	Solid	8015 NM	
880-49712-2	C-2	Total/NA	Solid	8015 NM	
880-49712-3	C-3	Total/NA	Solid	8015 NM	
880-49712-4	C-4	Total/NA	Solid	8015 NM	
880-49712-5	C-5	Total/NA	Solid	8015 NM	
880-49712-6	C-6	Total/NA	Solid	8015 NM	
880-49712-7	C-7	Total/NA	Solid	8015 NM	
880-49712-8	C-8	Total/NA	Solid	8015 NM	
880-49712-9	C-9	Total/NA	Solid	8015 NM	
880-49712-10	C-10	Total/NA	Solid	8015 NM	
880-49712-11	C-11	Total/NA	Solid	8015 NM	
880-49712-12	C-12	Total/NA	Solid	8015 NM	
880-49712-13	C-13	Total/NA	Solid	8015 NM	
880-49712-14	C-14	Total/NA	Solid	8015 NM	
880-49712-15	C-15	Total/NA	Solid	8015 NM	
880-49712-16	C-16	Total/NA	Solid	8015 NM	
880-49712-17	C-17	Total/NA	Solid	8015 NM	
880-49712-18	C-18	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

HPLC/IC

Leach Batch: 93201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49712-1	C-1	Soluble	Solid	DI Leach	
880-49712-2	C-2	Soluble	Solid	DI Leach	
880-49712-3	C-3	Soluble	Solid	DI Leach	
880-49712-4	C-4	Soluble	Solid	DI Leach	
880-49712-5	C-5	Soluble	Solid	DI Leach	
880-49712-6	C-6	Soluble	Solid	DI Leach	
880-49712-7	C-7	Soluble	Solid	DI Leach	
880-49712-8	C-8	Soluble	Solid	DI Leach	
880-49712-9	C-9	Soluble	Solid	DI Leach	
880-49712-10	C-10	Soluble	Solid	DI Leach	
880-49712-11	C-11	Soluble	Solid	DI Leach	
880-49712-12	C-12	Soluble	Solid	DI Leach	
880-49712-13	C-13	Soluble	Solid	DI Leach	
880-49712-14	C-14	Soluble	Solid	DI Leach	
880-49712-15	C-15	Soluble	Solid	DI Leach	
880-49712-16	C-16	Soluble	Solid	DI Leach	
880-49712-17	C-17	Soluble	Solid	DI Leach	
880-49712-18	C-18	Soluble	Solid	DI Leach	
MB 880-93201/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93201/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93201/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49712-1 MS	C-1	Soluble	Solid	DI Leach	
880-49712-1 MSD	C-1	Soluble	Solid	DI Leach	
880-49712-11 MS	C-11	Soluble	Solid	DI Leach	
880-49712-11 MSD	C-11	Soluble	Solid	DI Leach	

Analysis Batch: 93245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49712-1	C-1	Soluble	Solid	300.0	93201
880-49712-2	C-2	Soluble	Solid	300.0	93201
880-49712-3	C-3	Soluble	Solid	300.0	93201
880-49712-4	C-4	Soluble	Solid	300.0	93201
880-49712-5	C-5	Soluble	Solid	300.0	93201
880-49712-6	C-6	Soluble	Solid	300.0	93201
880-49712-7	C-7	Soluble	Solid	300.0	93201
880-49712-8	C-8	Soluble	Solid	300.0	93201
880-49712-9	C-9	Soluble	Solid	300.0	93201
880-49712-10	C-10	Soluble	Solid	300.0	93201
880-49712-11	C-11	Soluble	Solid	300.0	93201
880-49712-12	C-12	Soluble	Solid	300.0	93201
880-49712-13	C-13	Soluble	Solid	300.0	93201
880-49712-14	C-14	Soluble	Solid	300.0	93201
880-49712-15	C-15	Soluble	Solid	300.0	93201
880-49712-16	C-16	Soluble	Solid	300.0	93201
880-49712-17	C-17	Soluble	Solid	300.0	93201
880-49712-18	C-18	Soluble	Solid	300.0	93201
MB 880-93201/1-A	Method Blank	Soluble	Solid	300.0	93201
LCS 880-93201/2-A	Lab Control Sample	Soluble	Solid	300.0	93201
LCSD 880-93201/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93201
880-49712-1 MS	C-1	Soluble	Solid	300.0	93201
880-49712-1 MSD	C-1	Soluble	Solid	300.0	93201

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

HPLC/IC (Continued)

Analysis Batch: 93245 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49712-11 MS	C-11	Soluble	Solid	300.0	93201
880-49712-11 MSD	C-11	Soluble	Solid	300.0	93201

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

Client Sample ID: C-1

Date Collected: 10/09/24 07:20
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 02:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 02:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 03:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 03:02	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 18:18	CH	EET MID

Client Sample ID: C-2

Date Collected: 10/09/24 07:25
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 03:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 03:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 03:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 03:50	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 18:39	CH	EET MID

Client Sample ID: C-3

Date Collected: 10/09/24 07:28
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 03:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 03:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 04:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 04:08	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 18:46	CH	EET MID

Client Sample ID: C-4

Date Collected: 10/09/24 07:40
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 03:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 03:54	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

Client Sample ID: C-4

Date Collected: 10/09/24 07:40
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			93377	10/15/24 04:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 04:23	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 18:53	CH	EET MID

Client Sample ID: C-5

Date Collected: 10/09/24 07:51
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 04:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 04:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 04:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 04:40	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 19:00	CH	EET MID

Client Sample ID: C-6

Date Collected: 10/09/24 07:58
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 04:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 04:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 04:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 04:56	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 19:21	CH	EET MID

Client Sample ID: C-7

Date Collected: 10/09/24 08:10
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 05:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 05:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 05:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 05:12	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery SDG: 24-0117-01

Client Sample ID: C-7 Lab Sample ID: 880-49712-7

Date Collected: 10/09/24 08:10 **Matrix: Solid**
Date Received: 10/11/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 19:27	CH	EET MID

Client Sample ID: C-8 Lab Sample ID: 880-49712-8

Date Collected: 10/09/24 08:25 **Matrix: Solid**
Date Received: 10/11/24 15:15

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	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 05:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 05:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 05:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 05:28	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 19:34	CH	EET MID

Client Sample ID: C-9 Lab Sample ID: 880-49712-9

Date Collected: 10/09/24 08:32 **Matrix: Solid**
Date Received: 10/11/24 15:15

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	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 06:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 06:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 05:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 05:44	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 19:41	CH	EET MID

Client Sample ID: C-10 Lab Sample ID: 880-49712-10

Date Collected: 10/09/24 08:36 **Matrix: Solid**
Date Received: 10/11/24 15:15

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	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 06:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 06:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 06:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 06:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 19:48	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery
SDG: 24-0117-01

Client Sample ID: C-11
Lab Sample ID: 880-49712-11
Date Collected: 10/09/24 08:42
Matrix: Solid
Date Received: 10/11/24 15:15

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	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 08:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 08:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 06:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 06:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 19:55	CH	EET MID

Client Sample ID: C-12
Lab Sample ID: 880-49712-12
Date Collected: 10/09/24 08:58
Matrix: Solid
Date Received: 10/11/24 15:15

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	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 08:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 08:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 06:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 06:47	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 20:16	CH	EET MID

Client Sample ID: C-13
Lab Sample ID: 880-49712-13
Date Collected: 10/09/24 09:11
Matrix: Solid
Date Received: 10/11/24 15:15

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	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 09:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 09:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 07:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 07:04	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 20:23	CH	EET MID

Client Sample ID: C-14
Lab Sample ID: 880-49712-14
Date Collected: 10/09/24 09:23
Matrix: Solid
Date Received: 10/11/24 15:15

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	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 09:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 09:38	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

Client Sample ID: C-14

Date Collected: 10/09/24 09:23
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			93377	10/15/24 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 09:18	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 20:43	CH	EET MID

Client Sample ID: C-15

Date Collected: 10/09/24 09:30
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 10:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 10:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 09:34	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 20:50	CH	EET MID

Client Sample ID: C-16

Date Collected: 10/09/24 09:45
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 10:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 10:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 09:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 09:51	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 20:57	CH	EET MID

Client Sample ID: C-17

Date Collected: 10/09/24 10:32
Date Received: 10/11/24 15:15

Lab Sample ID: 880-49712-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 10:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 10:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 10:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 10:07	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

Client Sample ID: C-17

Lab Sample ID: 880-49712-17

Date Collected: 10/09/24 10:32
Matrix: Solid
Date Received: 10/11/24 15:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 21:04	CH	EET MID

Client Sample ID: C-18

Lab Sample ID: 880-49712-18

Date Collected: 10/09/24 11:40
Matrix: Solid
Date Received: 10/11/24 15:15

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	93191	10/14/24 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93174	10/15/24 11:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93486	10/15/24 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93377	10/15/24 10:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	93161	10/13/24 17:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93209	10/15/24 10:23	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	93201	10/14/24 10:16	SA	EET MID
Soluble	Analysis	300.0		1			93245	10/14/24 21:11	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: 880-49712-1
Project/Site: Chamaelon State Com Battery 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	06-30-25

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

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

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-49712-1
Project/Site: Chamaelon State Com Battery 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: Chamaelon State Com Battery

Job ID: 880-49712-1
SDG: 24-0117-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-49712-1	C-1	Solid	10/09/24 07:20	10/11/24 15:15
880-49712-2	C-2	Solid	10/09/24 07:25	10/11/24 15:15
880-49712-3	C-3	Solid	10/09/24 07:28	10/11/24 15:15
880-49712-4	C-4	Solid	10/09/24 07:40	10/11/24 15:15
880-49712-5	C-5	Solid	10/09/24 07:51	10/11/24 15:15
880-49712-6	C-6	Solid	10/09/24 07:58	10/11/24 15:15
880-49712-7	C-7	Solid	10/09/24 08:10	10/11/24 15:15
880-49712-8	C-8	Solid	10/09/24 08:25	10/11/24 15:15
880-49712-9	C-9	Solid	10/09/24 08:32	10/11/24 15:15
880-49712-10	C-10	Solid	10/09/24 08:36	10/11/24 15:15
880-49712-11	C-11	Solid	10/09/24 08:42	10/11/24 15:15
880-49712-12	C-12	Solid	10/09/24 08:58	10/11/24 15:15
880-49712-13	C-13	Solid	10/09/24 09:11	10/11/24 15:15
880-49712-14	C-14	Solid	10/09/24 09:23	10/11/24 15:15
880-49712-15	C-15	Solid	10/09/24 09:30	10/11/24 15:15
880-49712-16	C-16	Solid	10/09/24 09:45	10/11/24 15:15
880-49712-17	C-17	Solid	10/09/24 10:32	10/11/24 15:15
880-49712-18	C-18	Solid	10/09/24 11:40	10/11/24 15:15

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-49712-1
SDG Number: 24-0117-01

Login Number: 49712
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Appendix F

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.

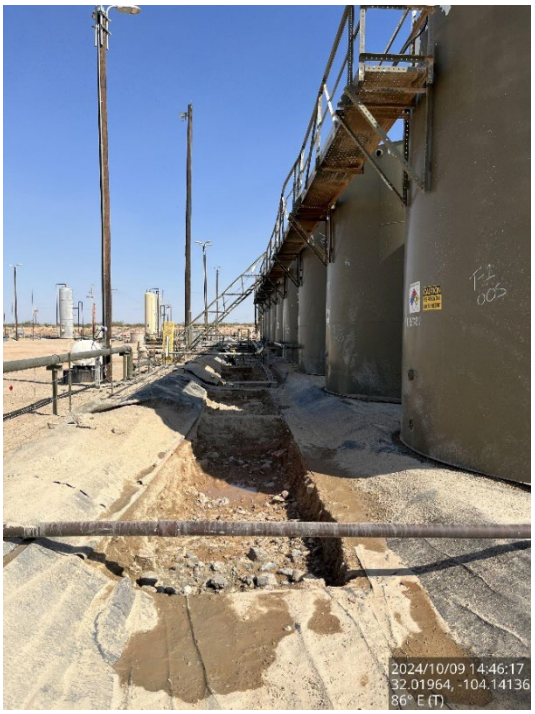
Lined tank battery containment where release occurred, viewing to the east.

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

Hydro-excavated area on the south side of tank battery, viewing to the northeast.

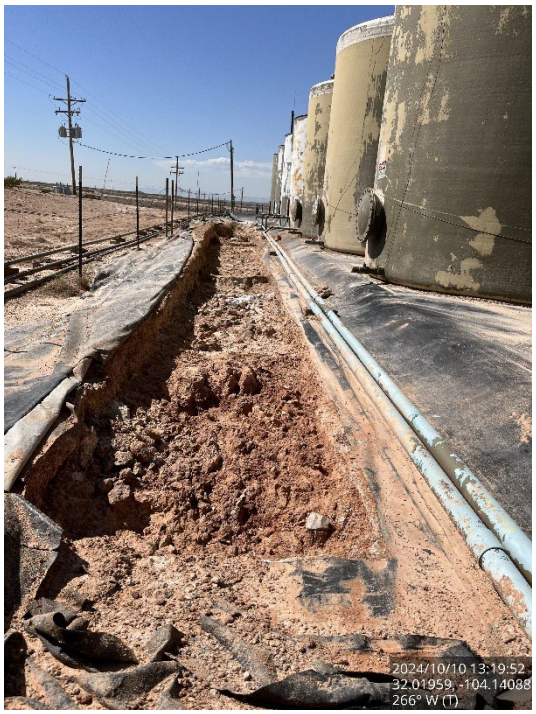
Hydro-excavated area on the south side of tank battery, viewing to the northwest.

Hydro-excavated area on the south side of tank battery, viewing to the west.



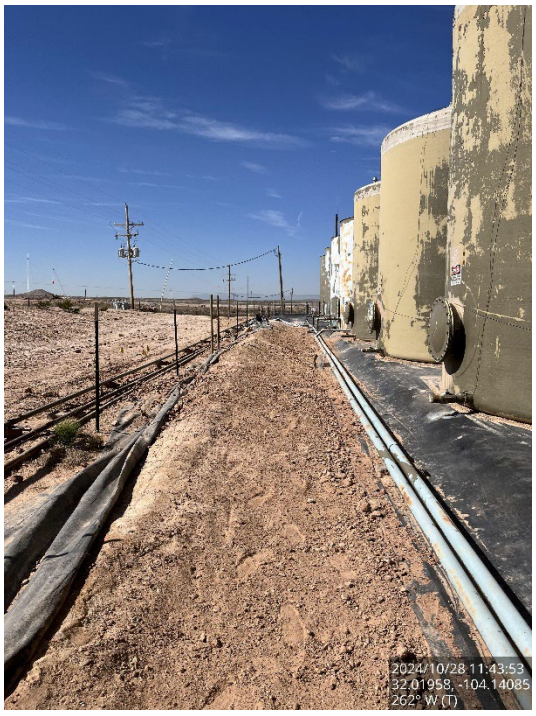
Hydro-excavated area on the north side of tank battery, viewing to the east.

Hydro-excavated area on the south side of tank battery, viewing to the east.

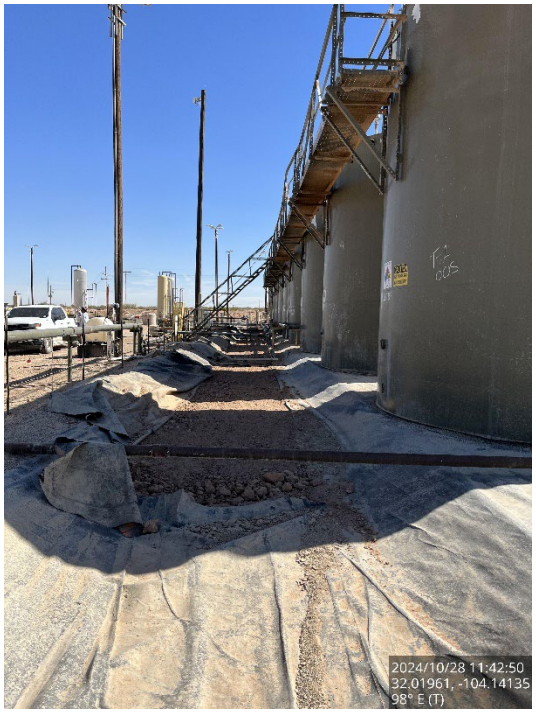


Hydro-excavated area on the south side of tank battery, viewing to the west.

Hydro-excavated area on the north side of tank battery, viewing to the west.



Backfilled area on the north side of the excavation, viewing to the west.

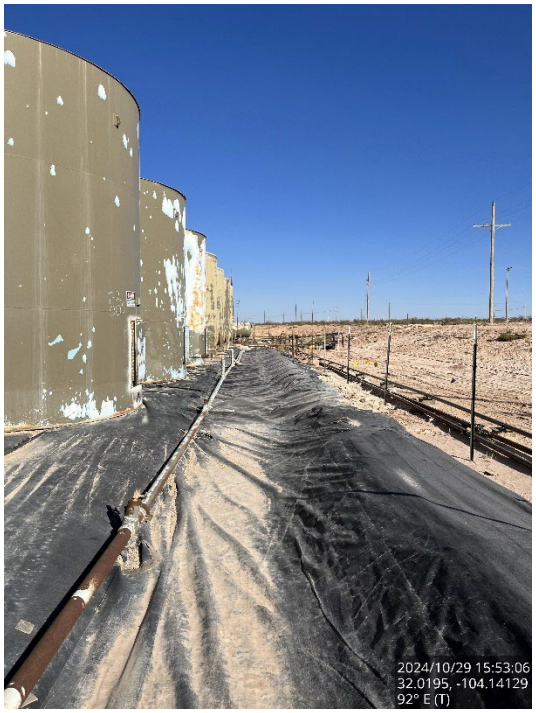


Backfilled area on the north side of tank battery, viewing to the east.

Backfilled area on the north side of tank battery, viewing to the west.

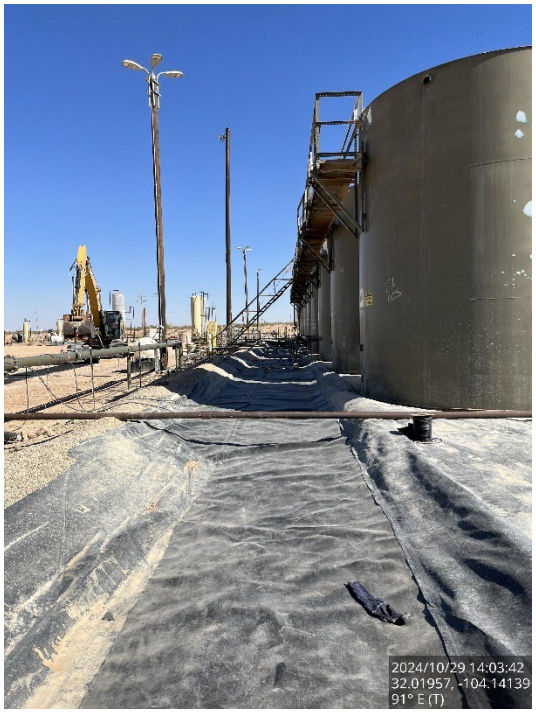
Backfilled area on the south side of tank battery, viewing to the east.

Repaired liner on southside of battery, viewing to the west.



Repaired liner on south side of battery, viewing to the east.

Repaired liner on southside of battery, viewing to the west.



Repaired liner on north side of battery, viewing to the east.

Repaired liner on north side of battery, viewing to the west.

Repaired liner on south side of battery, viewing to the east.

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

QUESTIONS

Action 404015

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 404015
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2407138431**
Incident Name	**NAPP2407138431 CHAMAELEON BIN STATE COM BATTERY @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report 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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QUESTIONS (continued)

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	Action Number: 404015
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/17/2024

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QUESTIONS (continued)

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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		09/30/2024
On what date will (or did) the final sampling or liner inspection occur		10/07/2024
On what date will (or was) the remediation complete(d)		10/29/2024
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)

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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	No
OR is the **off-site** disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
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 Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/17/2024
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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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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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**390219**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**10/07/2024**
What was the (estimated) number of samples that were to be gathered	**44**
What was the sampling surface area in square feet	**4600**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1572
What was the total volume (cubic yards) remediated	85
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	The remediation area was contained within the lined containment area.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/17/2024

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QUESTIONS (continued)

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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2407138431 CHAMAELEON BIN STATE COM BATTERY, thank you. This Remediation Closure Report is approved.	3/19/2025